“The 28th ERS International Congress is taking place in Paris this year and I am looking forward to enjoying the experience; the Congress is the biggest in respiratory medicine, it is a forum to get updated with the latest studies in the field, to meet peers and key opinion leaders, to enjoy the many educational sessions and to be part of this exciting and productive atmosphere, in a great congress centre and an historic and alluring city.

“This event is the result of many months of hard work. The ERS Science and Education Councils have worked tirelessly alongside ERS Officers to develop a programme of sessions and activities which not only represent the latest in respiratory medicine and science but also cater to the varied needs of our growing membership and wider community. This year’s programme, as in the past, has something for clinicians, scientists and allied health professionals: live and hands-on sessions, grand rounds, meet-the-expert seminars, new scientific evidence and, very importantly, the opportunity to meet with colleagues and to network.

“Networking is always a very big pull for our Congress; with over 22,000 delegates regularly in attendance, it is rightly seen as the place to be and to meet up with colleagues and peers from all over the world. It can be the catalyst for new collaborations and forming networks and this helps the advancement of knowledge and science and also helps our members’ careers. Having the opportunity and the proper space to share ideas and knowledge and discuss issues and experiences plays a significant role in fulfilling our own personal goals of becoming better and feeling part of a productive and energetic community, it also helps reach the ultimate goal of better respiratory health across Europe and worldwide.

“I am looking forward to being in Paris – to welcome you all to what I know will be the respiratory event of the year, and to participate, absorb the knowledge being shared over the five-day period and enjoy the atmosphere. As the current ERS President, I am so very proud to be celebrating my presidency with this prestigious event! I would like to thank our officers and our members and importantly, all the ERS staff and departments who play a key role in bringing this big and complex event to life and who continue to do an excellent job year by year.”
Welcome to Paris 2018!
We are delighted to welcome friends and colleagues to our home city of Paris for the ERS International Congress 2018.

Paris is a fitting choice for the largest respiratory meeting in the world as it is an important scientific centre in Europe; think René Descartes, Pierre and Marie Curie, the Sorbonne University, the freedom of thinking (les Lumières) and revolutionary ideas.

Paris is certainly one of the most interesting cities in Europe and worldwide. People from all over the world travel to Paris to discover and experience the French way of life. Only a few cities on earth capture the imaginations and hearts like Paris.

Paris is the city of love, inspiration, art and fashion. It is a wonderful combination of historic, modern, romantic, intellectual, grandiose and elegantly understated. The nightlife and warm atmosphere are welcoming and will make you feel at home.

The French capital has fascinating architecture in abundance, not least the iconic Eiffel Tower. It has a huge number of museums which house some of the world’s most important artworks. Artistic vibrancy resonates throughout the city. It would take a lifetime to fully experience the Louvre, home to the world’s most diverse and extensive collection of pre-20th century art, not to mention the many other Museums nearby, such as the Orsay, Rodin, and the Musée du quai Branly.

Paris is the largest city in France and is located in the northwest region. It sits on the banks of the Seine River and has a population of approximately 2,315,000.

Covering key topics in respiratory medicine from across the spectrum of disease areas including TB, lung cancer, chronic and acute respiratory failure, sleep breathing disorders, interstitial lung diseases, pneumonia, cystic fibrosis, COPD and asthma, amongst others, the Congress programme is set to deliver the best advances in both science and education.

This Congress will specifically highlight the importance of environment in respiratory health and focus on the need to personalise medicine in the respiratory arena. Special attention will also be paid to our interactions with microorganisms in our environment as well as those that live in peace within our organism.

We look forward to welcoming you to the ERS International Congress where we will continue our mission to promote lung health and drive standards in respiratory medicine, in close partnership with national societies, patient organisations, and various institutions all over Europe and beyond.
PRACTICAL INFORMATION A-Z

Catering
No official lunches will be provided for Congress participants but there will be a number of lunch facilities around the Congress centre, including cafeterias, restaurants, bars and several coffee/snack points. The official catering partner is not confirmed yet.

Childcare
Please note that no childcare service will be provided in Paris.

Congress partners
Venue
Paris Expo Porte de Versailles
1 Place de la Porte de Versailles, 75015 Paris

Accommodation
B Network
Rue Royale 20
75008 Paris
France
Tel: +33 158 162 011
e-mail: ers2018@b-network.com
Find out how to make individual and group accommodation bookings

Insurance and disclaimer
The European Respiratory Society (ERS), Paris Expo Porte de Versailles, Interplan, the registration partner and all other Congress partners accept no liability for injuries and/or losses of whatever nature incurred by participants and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings. Please check the validity of your own insurance.

Registration
Congrex Switzerland Ltd
Peter Merian-Strasse 80
CH-4002 Basel
Tel: +41 61 686 77 77, Fax: +41 61 686 77 88
e-mail: ers2018.registration@congrex.com

Transportation cards
The transportation card will not be offered for the ERS International Congress 2018. However, it can be purchased in advance when registering for the Congress or on-site at the dedicated desks. Further information and prices will be available when registration opens in April 2018.

Dates and opening hours

<table>
<thead>
<tr>
<th>Date</th>
<th>Congress Centre</th>
<th>Registration</th>
<th>Speakers’ preview Room</th>
<th>ERS Sessions</th>
<th>Evening Symposia</th>
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<td>07:00-21:00</td>
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*All times are subject to change
## ERS WORLD VILLAGE SOCIETIES LIST

### National / Affiliated Societies

<table>
<thead>
<tr>
<th>Desk Nb</th>
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<td>Australia/ New Zealand</td>
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<td>28</td>
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### Regional Societies

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### International Societies

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### European Societies

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### European projects / Diseases Groups

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<td>Fédération française des associations et amicales de malades insuffisants ou handicapés respiratoires</td>
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<td>C</td>
<td>European Federation of Allergy and Airways Diseases Patient Associations</td>
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<td>D</td>
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<td>E</td>
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<td>European Idiopathic Pulmonary Fibrosis and Related Disorders Federation</td>
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<td>Stand</td>
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INVITATION to our opening session

Date: Saturday 15 September
Time: 18:00
Room: HALL 7.3 A (Paris Expo Porte de Versailles)
Dress: Smart casual
The second ERS Satellite will take place on 21 February, 2019

Join us in LONDON, ATHENS, LISBON OR WARSAW or as one of thousands of delegates participating ONLINE from over 100 countries around the world.

There is no registration fee for participation in this cutting-edge, interactive event, which will share the very latest scientific findings and clinical updates in the field.

Morning session
Advances in personalised treatment for COPD patients
Chaired by Professor W.Wedzicha

Afternoon session
Advances in personalised treatment for ILD patients
Chaired by Professor V.Cottin

Using state-of-the-art live streaming technology, four venues will contribute to the programme. To access the programme or to register, visit: www.ersnet.org/satellites
IF YOU CAN’T ATTEND THE ERS CONGRESS IN PARIS THIS YEAR, JOIN US FOR A ONE DAY EVENT SUMMARIZING THE LATEST CLINICAL ADVANCES IN RESPIRATORY MEDICINE.

Respiratory Updates

Stay at the cutting edge
register for free to join us in LONDON on 2nd November 2018 or register for free to join us ONLINE.

8 speakers covering:
COPD, Asthma, PH, IPF and Lung Cancer

To get the full programme and more details go to ersnet.org/resp-update

Chaired by:
Professor Jorgen Vestbo and Professor John Park
ERS Connect

The PERFECT YEAR-ROUND APP for RESPIRATORY PROFESSIONALS and the essential CONGRESS COMPANION.

ESSENTIAL CONGRESS RESOURCES:
- Full congress programme
- Abstracts, e-posters and webcasts of all presentations
- Congress centre map
- List of industry sessions and exhibition map
- Create your own agenda
- Find popular sessions
- Connect to other participants
- Automatic update for use at future congresses

ALL THE LATEST FROM ERS:
- The latest respiratory news and highlights
- Information on ERS activities
- Access to clinical guidelines
- Cutting-edge medical education resources
- Scientific materials
- Funding opportunities
- Plus much more!

ERS CONNECT IS THE OFFICIAL EUROPEAN RESPIRATORY SOCIETY APP AND ERS INTERNATIONAL CONGRESS COMPANION.

It provides an opportunity to stay up-to-date with ERS on a week by week basis, and is a must-have resource for navigating the ERS International Congress.

AVAILABLE FOR FREE FROM:

KEEP THE APP AFTER CONGRESS AND USE IT ALL YEAR TO STAY UP TO DATE WITH ALL THE LATEST FROM ERS. IT WILL AUTOMATICALLY UPDATE FOR USE AT THE NEXT CONGRESS.
The ERS Congress Final Programme app is available as a free download for iPhone, iPad and iPod Touch (iOS 7.0 and higher) and Android phones and tablets (4.0 and higher).

ERSCONGRESS.ORG / MOBILE

ACCESS THE PROGRAMME IN THE CONGRESS RESOURCES AREAS

COMMITTED TO LUNG HEALTH BY SUPPORTING ERS 2018
ERS-CTS Joint Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.3 C, 08:30–13:00
GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language
FROM DEDICATED SESSIONS IN CHINESE

Note that the presentations will be conducted in Chinese and English with dual projection of slides in both languages.

08:30–11:00
Chinese Programme Part I
Chairs: T. Troosters (Belgium), Chen Wang (China), A. Bush (United Kingdom)
08:30 Update on management of new emerging acute respiratory viral infectious diseases
N. Zhong (China)
09:00 The role of chronic infection in respiratory diseases
E. Polverino (Spain)
09:30 Establishment of PCCM training system in China
C. Wang (China)
10:00 School interventions to improve asthma control
J. Grigg (United Kingdom)
10:30 Break

11:00–13:00
Chinese Programme Part II
Chairs: G. Joos (Belgium), R. Chen (China)
11:00 The Chinese New Guideline on HAP/VAP
J. Qu (China)
11:30 HAP/VAP: new guidelines, new approaches
F. Blasi (Italy)
12:00 Recent advance in home noninvasive mechanical ventilation in China
R. Chen (China)
12:30 Is there still a role for NIV in acute hypoxemic failure?
L. Heunks (Netherlands)
ERS-SPLF Joint Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.1 B, 14:00–17:30

GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language FROM DEDICATED SESSIONS IN FRENCH

Note that the presentations will be conducted in French with dual projection of slides in French and English.

**14:00–15:45**
**French Programme Part I**
Chairs: N. Roche (France), G. Brusselle (Belgium)
14:00 Follow-up of resected bronchial carcinoma
V. Westeel (France)
14:26 Yield of cohorts in the bronchial diseases
C. Raherison-Semjen (France)
14:52 Asthma phenotypes in children: what is the impact at adult age?
J. Just (France)
15:18 Big data applied to sleep
J.-L. Pépin (France)

**15:45–17:30**
**French Programme Part II**
Chairs: A. Dinh-Xuan (France), M. Gaga (Greece)
15:45 Atmospheric air pollution: results from interventional studies
I. Annesi Maesano (France)
16:11 Thrombo-embolic pulmonary hypertension: which treatment should we choose?
X. Jais (France)
16:37 Smoking cessation and COPD
M. Waked (Lebanon)
17:03 Anti-tuberculosis drugs: what is new?
G. Migliori (Italy)
ERS-RRS-ARSRM Joint Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.1 B, 09:00–13:00

GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language
FROM DEDICATED SESSIONS IN RUSSIAN

Note that the presentations will be conducted in Russian and English with dual projection of slides in both languages.

09:00–11:00
Russian Speaking Programme 2018: Part I
Chairs: E. Amelina (Russian Federation), I. Sermet-Gaudelus (France)
09:00 An assay of CF transmembrane conductance regulator function that uses primary CF intestinal organoids: shared experiences with the Russian CF centre
J. Beekman (Netherlands)
09:25 Collaboration between the Russian National CF Patient Registry and the European CF Society Patient Registry
E. Amelina (Russian Federation)
09:50 Specific features of spectrum and frequency of CFTR mutations in ethnically different populations of the Russian Federation
N. Kashirskaya (Russian Federation)
10:15 CF: pathogenesis treatment strategies
I. Sermet-Gaudelus (France)
10:40 Break

11:00–13:00
Russian Speaking Programme 2018: Part II
Chairs: E. Davidovskaya (Belarus), A. Belevskiy (Russian Federation)
11:00 Modern concept of sporadic LAM pathogenesis
S. Harari (Italy)
11:30 Clinical experience of LAM patients who were managed in the Russian Federation
A. Chuchalin (Russian Federation)
12:00 Russian experiences in lung transplantation in CF and LAM patients
N. Karchevskaya (Russian Federation)
12:30 Non-invasive diagnosis of lymphangioleiomyomatosis: new biomarkers
L. Young (United States of America)
ERS-ALAT-SBPT-SEPAR-SPP
Joint Spanish / Portuguese Session

Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.3 C, 14:00–17:30

GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language FROM DEDICATED SESSIONS IN SPANISH AND PORTUGUESE

Note that the presentations will be conducted in Portuguese or Spanish, and in English, with dual projection of slides in either Spanish or Portuguese and English.

14:00–16:00
Spanish and Portuguese Programme Part I
Chairs: C. Jimenez Ruiz (Spain), G. Zabert (Argentina)
14:00  Tuberculosis in a migrating world
       L. Rendon Perez (Mexico)
14:30  Drug-resistant tuberculosis in Europe
       J. Caminero Luna (Spain)
15:00  Panel discussion
15:30  Break

16:00–17:30
Spanish and Portuguese Programme Part II
Chairs: V. Coelho Pinto Hespanhol (Portugal), F. Cavalcanti Lundgren (Brazil)
16:00  Mechanical ventilation in patients with neuromuscular diseases
       M. Alcântara Holanda (Brazil)
16:30  The non-invasive ventilation network in Portugal
       M. Araújo Cunha Guimarães (Portugal)
17:00  Panel discussion
## SATURDAY 15 SEPTEMBER 2018

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<td>PG18 Cystic fibrosis: management in adult patients</td>
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### OUTLINE PROGRAMME

#### SUNDAY 16 SEPTEMBER, 2018

**ERS International Congress 2018**

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### OUTLINE PROGRAMME

**SUNDAY 16 SEPTEMBER, 2018**

ERS International Congress 2018

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#### SESSIONS

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<td><strong>7.3Z1</strong> 10:45-12:45 Hot topics: Imminent global problems in lung cancer require joint action: time for an international alliance!</td>
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<td><strong>7.1A</strong> 10:45-12:45 Cournand lecture: new paradigms in extracorporeal lung assistance</td>
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<td><strong>7.1B</strong> 10:45-12:45 Towards understanding and managing chronic cough</td>
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<td><strong>7.3C</strong> 10:45-12:45 Dyspnoea: a multidimensional and multidisciplinary approach</td>
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<td><strong>7.3K</strong> 10:45-12:45 Gene-environment interactions in the omics era</td>
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<td><strong>7.3N</strong> 10:45-12:45 State of the art session: Pulmonary vascular diseases</td>
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<td><strong>7.3Z2</strong> 10:45-12:45 Multidisciplinary approach to ground-glass opacities</td>
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<td><strong>Terminal 7</strong> 10:45-12:45 Clinical news in idiopathic interstitial pneumonias</td>
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<td><strong>7.3P</strong> 10:45-12:45 Oral presentation: New pharmacological strategies in airway diseases</td>
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<td><strong>7.2A</strong> 10:45-12:45 Poster discussion: Assessing pathophysiology in children</td>
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<td><strong>7.3U</strong> 11:00-13:00 Professional development: PDW3 Leading and managing change</td>
<td>€ 49</td>
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#### THEMATIC POSTER SESSIONS

08:30-17:00 Poster Display
12:50-14:40 Poster Session (with authors and coordinators’ presence)

**TP-01** 12:50 14:40 Thematic poster: Physiological and biological insights in asthma
**TP-02** 12:50 14:40 Thematic poster: Asthma: clinical screening tools
**TP-03** 12:50 14:40 Thematic poster: Integrated care and non-pharmacological management of COPD
**TP-04** 12:50 14:40 Thematic poster: Nutrition and metabolic syndrome in COPD
**TP-05** 12:50 14:40 Thematic poster: Cardiovascular morbidities in COPD
**TP-06** 12:50 14:40 Thematic poster: COPD around the world
**TP-07** 12:50 14:40 Thematic poster: Pharmacological management of COPD
**TP-08** 12:50 14:40 Thematic poster: Management of bronchiectasis and large airway diseases
**TP-09** 12:50 14:40 Thematic poster: Management of chronic cough and respiratory muscle dysfunction
**TP-10** 12:50 14:40 Thematic poster: What’s hot in rehabilitation in COPD and interstitial lung disease (ILD)?
**TP-11** 12:50 14:40 Thematic poster: Imaging of various diseases with different imaging modalities
**TP-12** 12:50 14:40 Thematic poster: Linear and radial EBUS and peripheral nodules
**TP-13** 12:50 14:40 Thematic poster: Pleural interventions
**TP-14** 12:50 14:40 Thematic poster: Primary care management of COPD
**TP-15** 12:50 14:40 Thematic poster: Functional genomics and COPD: new challenges
**TP-16** 12:50 14:40 Thematic poster: Studying novel biomarkers in asthma and COPD
### OUTLINE PROGRAMME

**SUNDAY 16 SEPTEMBER, 2018**

**ERS International Congress 2018**

#### RESPIRATORY INFECTIONS

- TP-17 Thematic poster - Identification of therapeutic targets for asthma
- TP-18 Thematic poster - Pulmonary fibrosis: from models to patients
- TP-19 Thematic poster - Pulmonary drug delivery: inhaler use, devices and technologies
- TP-20 Thematic poster - New developments in the treatment of asthma
- TP-21 Thematic poster - Basic pharmacology
- TP-22 Thematic poster - Biomarkers for evaluating COPD
- TP-23 Thematic poster - Biomarkers for evaluating asthma
- TP-24 Thematic poster - Translational models of the immunopathology that underlies airway obstructive diseases
- TP-25 Thematic poster - Role of IgE and interleukin (IL)-5 in Th2-cell signatures
- TP-26 Thematic poster - Epidemiology of asthma and allergy: prevalence, incidence and risk factors
- TP-27 Thematic poster - Epidemiology of COPD: from exacerbations and comorbidities to asthma-COPD overlap syndrome (ACOS)
- TP-28 Thematic poster - Occupational and environmental lung diseases: mechanisms, biomarkers and causation
- TP-29 Thematic poster - Occupational and environmental lung diseases: influence on the airway and interstitium
- TP-30 Thematic poster - Tobacco use and cessation interventions in patients with respiratory, cardiovascular and mental health problems and other populations
- TP-31 Thematic poster - Effect of tobacco use on health
- TP-32 Thematic poster - Role of omics in population studies
- TP-33 Thematic poster - The bad and the ugly in paediatric asthma: comorbidities and exacerbations
- TP-34 Thematic poster - Paediatric asthma: new mechanisms and tools
- TP-35 Thematic poster - Cystic fibrosis in adults: current research
- TP-36 Thematic poster - Clinical problems in paediatric pulmonology
- TP-37 Thematic poster - Paediatric Bronchology
- TP-38 Thematic poster - Molecular and cellular determinants of the developing lung
- TP-39 Thematic poster - Respiratory physiology and measurements
- TP-40 Thematic poster - Acutely hospitalised patients: physiotherapy interventions and assessment methods
- TP-41 Thematic poster - Chronic lung disease: effects of rehabilitation interventions on functional outcomes in patients
- TP-42 Thematic poster - Chronic respiratory disease: respiratory muscle function, breathing exercises and airway clearance techniques
- TP-43 Thematic poster - Chronic respiratory disease: determinants of physical activity in patients
- TP-44 Thematic poster - Chronic respiratory disease: effects of rehabilitation interventions in patients
- TP-45 Thematic poster - Contemporary respiratory care: symptoms, the role of the nurse and the organisation of care

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<td>13:00</td>
<td>Championship</td>
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<td>Lunchtime session</td>
<td>Advances in idiopathic pulmonary fibrosis treatment, tracheobronchial reconstruction using bioengineering and clinical prediction rules for diagnosing pulmonary embolism</td>
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<td>Lungs on fire</td>
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<td>Meet the expert</td>
<td>ME1 Endoscopic lung volume reduction</td>
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<td>ME2 Lung microbiome: study design and standardisation</td>
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**OUTLINE PROGRAMME**

**SUNDAY 16 SEPTEMBER, 2018**

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<td>Cleaning agent exposures at work: are they really harmful to lung health?</td>
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<td>Current and evolving tests in lung function: pro/con debate</td>
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<td>Air pollution and transplantation: near to one’s heart and lungs!</td>
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<td>Clinical trials in COPD: new results</td>
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<td>On the right path: understanding and improving the function of an overloaded right heart ventricle</td>
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<td>Respiratory muscle function, postural control and breathing exercises in chronic respiratory conditions</td>
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<td>Lung cancer: from early diagnosis to modern monitoring strategies</td>
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<td>New insights in the management of chronic respiratory failure</td>
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See from page xx for the Industry Sponsored Sessions
## Detailed Programme

### Monday 17 September 2018

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<td>Lung cancer: personalised treatment and palliative care</td>
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<td>CC5 Pulmonary vasculitis: the great chameleon</td>
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<td>SW7 Cardiopulmonary exercise test interpretation - tips and pitfalls</td>
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<td>Pulmonary embolism: what we need to know</td>
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<td>New trends in the management of difficult-to-wean patients</td>
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<td>Sleep apnoea: is it time for new therapies?</td>
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<td>Cross-talk in the lung microenvironment: implications for chronic lung disease</td>
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<td>State of the art session: Thoracic oncology</td>
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<td>Occupational and environmental lung diseases: from early influences and novel exposures to preventative approaches</td>
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<td>COPD and chronic respiratory disease: from misclassification to radiological findings</td>
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<td>New developments in tuberculosis</td>
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<td>Determinants of physical activity behaviour in patients with COPD and the physiotherapist as a physical activity coach</td>
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<td>Integrating pharmacological and non-pharmacological management in COPD: are we there yet?</td>
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<td>Pleural diseases and pneumonia: what’s new?</td>
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<td>SW8 Cardiopulmonary exercise test interpretation - tips and pitfalls</td>
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<td>13:00</td>
<td>SW11 Thoracic ultrasound</td>
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### Detailed Programme

#### Monday 17 September, 2018

**7.1B** 10:45-12:45 **Hot topics**
Preventing asthma and COPD exacerbations by increasing the inhaled glucocorticoid dose  
**Clinical**

**7.1A** 10:45-12:45 **Symposium**
Infectious agents and childhood asthma  
**Clinical**

**7.3C** 10:45-12:45 **Symposium**
Integrated care for patients with pulmonary vascular disease, lung diseases and heart failure  
**Clinical**

**7.3K** 10:45-12:45 **Symposium**
Cell-matrix interactions in lung disease and regeneration  
**Basic science**

**7.3N** 10:45-12:45 **Symposium**
State of the art session: Respiratory infections  
**Clinical**

**7.3Z1** 10:45-12:45 **Symposium**
Respiratory medicine meets hematology  
**Clinical**

**7.3A** 10:45-12:45 **Year in review**
Clinical Year in Review  
**Clinical**

**7.3B** 10:45-12:45 **Oral presentation**
Intercellular communication in tissue remodelling  
**Clinical**

**7.3Z2** 10:45-12:45 **Oral presentation**
Intercellular communication in tissue remodelling  
**Clinical**

**7.3M** 10:45-12:45 **Oral presentation**
COPD: from LABA/ICS to LABA/LAMA/ICS  
**Clinical**

**7.3O** 10:45-12:45 **Oral presentation**
Respiratory muscles and lung function: from healthy subjects to patients  
**Clinical**

**7.3Q** 10:45-12:45 **Oral presentation**
Granulomatous disorders: epidemiology, genotype and phenotype  
**Clinical**

**Terminal 7** 10:45-12:45 **Oral presentation**
Interventional pulmonology highlights in 2018: latest innovations  
**Clinical**

**7.2A** 10:45-12:45 **Poster discussion**
Multimetics studies in epidemiology: what can they tell us?  
**Clinical**

**7.2B** 10:45-12:45 **Poster discussion**
The world of idiopathic pulmonary fibrosis (IPF): global registries  
**Clinical**

**7.2C** 10:45-12:45 **Poster discussion**
Lung cancer: personalised medicine  
**Clinical**

**7.2D** 10:45-12:45 **Poster discussion**
New diagnostic tools for sleep and breathing and healthcare provision options  
**Clinical**

**7.3J** 10:45-12:45 **Poster discussion**
Respiratory epidemiology: from COPD to factors that associate with lung function and infections  
**Clinical**

**7.3L** 10:45-12:45 **Poster discussion**
New kids on the block: novel molecular pathways and therapeutic targets in chronic lung diseases  
**Clinical**

**7.3U** 11:00-13:00 **Professional development**
PDW5 Teamability: become an effective team leader and member  
**Clinical**

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### Thematic Poster Sessions

**08:30-17:00 Poster Display**

**12:50-14:40 Poster Session [with authors and coordinators’ presence]**

**TP-01** 12:50-14:40 Thematic poster - Critically ill patients: prognostic factors and biomarkers

**TP-02** 12:50-14:40 Thematic poster - Preclinical and clinical studies of critical illness

**TP-03** 12:50-14:40 Thematic poster - Muscles and diaphragm, and quality improvement

**TP-04** 12:50-14:40 Thematic poster - Non-invasive ventilation for acute respiratory failure

**TP-05** 12:50-14:40 Thematic poster - Non-invasive ventilation in chronic respiratory failure

**TP-06** 12:50-14:40 Thematic poster - New tools for managing respiratory failure

**TP-07** 12:50-14:40 Thematic poster - New methods and concepts in tests of lung and respiratory muscle function

**TP-08** 12:50-14:40 Thematic poster - The value of lung function testing in various pathophysiological conditions

**TP-09** 12:50-14:40 Thematic poster - Cardiopulmonary exercise testing in COPD and cardiovascular diseases
<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Type</th>
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<tr>
<td>7.3J</td>
<td>13:00</td>
<td>Patient forum: Occupational lung disease – professional and patient perspectives</td>
<td>Clinical</td>
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<td>7.3U</td>
<td>13:15</td>
<td>Meet the expert: ME14 Bronchiolitis obliterans syndrome in immunodepressed patients</td>
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<td>7.3U</td>
<td>14:30</td>
<td>Professional development: PDW6 Supporting patients with behaviour change strategies</td>
<td>Clinical</td>
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<tr>
<td>7.3T</td>
<td>14:30</td>
<td>Skills workshop: SW9 Cardiopulmonary exercise test interpretation - tips and pitfalls</td>
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<td>14:30</td>
<td>Skills workshop: SW12 Thoracic ultrasound</td>
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<td>7.1A</td>
<td>14:45</td>
<td>Guidelines session: Idiopathic pulmonary fibrosis diagnosis: new guidelines</td>
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<tr>
<td>7.3A</td>
<td>14:45</td>
<td>Hot topics: Chronic pulmonary aspergillosis: from guidelines to real-life implementation</td>
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<tr>
<td>7.3C</td>
<td>14:45</td>
<td>Hot topics: Roles of innate lymphoid cells in asthma</td>
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<tr>
<td>7.1B</td>
<td>14:45</td>
<td>Symposium: Advances in community-acquired pneumonia management</td>
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<td>Symposium: The best of the European Respiratory Journal in 2018</td>
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<td>Symposium: Imaging chronic lung diseases: moving from structure to function</td>
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<td>Symposium: Microbiomes in respiratory disease</td>
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<td>14:45</td>
<td>Oral presentation: New methods for diagnosing and treating lung diseases</td>
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<td>7.3M</td>
<td>14:45</td>
<td>Oral presentation: Ventilation and lung imaging in critically ill patients</td>
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<td>14:45</td>
<td>Oral presentation: Lung cancer: new aspects in diagnosis and management</td>
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<td>Oral presentation: Pathophysiological aspects of sleep-disordered breathing: intermittent hypoxia</td>
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<td>7.3P</td>
<td>14:45</td>
<td>Oral presentation: Recent insights in childhood asthma and wheezing</td>
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<td>Oral presentation: Lung transplant science: from primary graft to chronic allograft dysfunction</td>
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<td>7.3Z2</td>
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<td>Oral Presentation: Molecular mechanisms and treatment of pulmonary hypertension</td>
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<td>Poster discussion: What’s new in lung function and exercise assessment in COPD?</td>
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<td>Poster discussion: Exercise is medicine: testing and treating patients with some effort</td>
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<td>Poster discussion: Cryobiopsy in interstitial lung disease (ILD)</td>
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<td>Poster discussion: Innovations in equipment and their application</td>
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<td>Poster discussion: Pulmonary hypertension: right ventricle function, haemodynamics and exercise</td>
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<td>Poster discussion: Latest developments in cystic fibrosis</td>
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<td>7.3R</td>
<td>15:00</td>
<td>Educational forum: Ensuring impactful independent education</td>
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See from page xx for the Industry Sponsored Sessions
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<td>Challenging clinical cases</td>
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<td>CC6 Interstitial lung diseases</td>
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<td>07:00</td>
<td>Challenging clinical cases</td>
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<td>CC8 Non-resolving pneumonia</td>
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<td>10:20</td>
<td>SW13 Radiological-pathological correlations in different lung diseases</td>
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<td>SW19 Clinical interpretation of spirometry results</td>
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<td>Poster discussion</td>
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<td>13:00</td>
<td>SW14 Radiological-pathological correlations in different lung diseases</td>
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<td>Skills workshop</td>
<td>Clinical</td>
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<td>13:00</td>
<td>SW17 Essential skills for the intensive care unit</td>
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<td>Session/Poster</td>
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<td>7.1B</td>
<td>10:45 - 12:45</td>
<td>Hot topics: Recent advances in respiratory disorders with oropharyngeal dysphagia</td>
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<tr>
<td>7.3A</td>
<td>10:45 - 12:45</td>
<td>Session: Pulmonary endoscopy</td>
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<td>7.1A</td>
<td>10:45 - 12:45</td>
<td>Symposium: It’s my favourite cell that affects your asthma</td>
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<td>7.3C</td>
<td>10:45 - 12:45</td>
<td>Symposium: Fungal infection in the intensive care unit</td>
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<td>7.3K</td>
<td>10:45 - 12:45</td>
<td>Symposium: New challenges in tackling known diseases with the 10 ERS Principles for Lung Health</td>
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<td>7.3Z1</td>
<td>10:45 - 12:45</td>
<td>Symposium: Recent advances in primary ciliary dyskinesia</td>
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<td>10:45 - 12:45</td>
<td>Year in review: Scientific Year in Review</td>
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<td>7.3B</td>
<td>10:45 - 12:45</td>
<td>Oral presentation: Quality, reference values and standards</td>
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<td>7.3M</td>
<td>10:45 - 12:45</td>
<td>Oral presentation: Pulmonary embolism: long-term sequelae and advances in therapies</td>
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<td>10:45 - 12:45</td>
<td>Oral presentation: Novel findings in biomarkers of tobacco use, exposure, hazards and genetics</td>
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<td>7.3Q</td>
<td>10:45 - 12:45</td>
<td>Oral presentation: Imaging biomarkers and quantitative imaging</td>
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<td>7.3P</td>
<td>10:45 - 12:45</td>
<td>Oral presentation: CTD-ILD and hypersensitivity pneumonitis: risk stratification and management</td>
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<td>7.3Z2</td>
<td>10:45 - 12:45</td>
<td>Oral presentation: Progress in rare interstitial lung diseases</td>
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<td>Terminal 7</td>
<td>10:45 - 12:45</td>
<td>Oral presentation: General thoracic surgery</td>
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<td>7.2A</td>
<td>10:45 - 12:45</td>
<td>Poster discussion: How far are we in terms of predicting mortality and exacerbations in COPD?</td>
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<td>7.2B</td>
<td>10:45 - 12:45</td>
<td>Poster discussion: Current practices in and attitudes to screening for tuberculosis, and a discussion about genetic diversity</td>
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<td>Poster discussion: New insights in testing lung and respiratory muscle functions</td>
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<td>7.2D</td>
<td>10:45 - 12:45</td>
<td>Poster discussion: Asthma and allergy in adults and children and their biomarkers</td>
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<td>10:45 - 12:45</td>
<td>Poster discussion: Pathobiology of pulmonary hypertension</td>
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<td>7.3L</td>
<td>10:45 - 12:45</td>
<td>Poster discussion: Telehealth, home rehabilitation and specific adaptations to exercise interventions in different settings</td>
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</table>

**THEMATIC POSTER SESSIONS**

- **08:30-17:00 Poster Display**
- **12:50-14:40 Poster Session (with authors and coordinators’ presence)**

**TP-01** 12:50 14:40 Thematic poster - Tests and trends in asthma
**TP-02** 12:50 14:40 Thematic poster - Asthma and drugs
**TP-03** 12:50 14:40 Thematic poster - Clinical markers of asthma
**TP-04** 12:50 14:40 Thematic poster - Patient-reported outcomes and scores in COPD
**TP-05** 12:50 14:40 Thematic poster - COPD and extrapulmonary comorbidities
**TP-06** 12:50 14:40 Thematic poster - Functional assessment of COPD
**TP-07** 12:50 14:40 Thematic poster - Biomarkers of COPD
**TP-08** 12:50 14:40 Thematic poster - COPD exacerbations and bronchiectasis
**TP-09** 12:50 14:40 Thematic poster - Sarcoidosis, interstitial lung diseases and various clinical problems
**TP-10** 12:50 14:40 Thematic poster - Pulmonary rehabilitation: exercise training, body composition, physical activity and other aspects
**TP-11** 12:50 14:40 Thematic poster - Aspects of pulmonary rehabilitation and chronic care
**TP-12** 12:50 14:40 Thematic poster - Use of stents for tracheal stenosis
**TP-13** 12:50 14:40 Thematic poster - Bronchoscopy and transthoracic ultrasound
OUTLINE PROGRAMME
TUESDAY 18 SEPTEMBER, 2018
ERS International Congress 2018

RESPIRATORY INFECTIONS
SLEEP AND BREATHING DISORDERS
PULMONARY VASCULAR DISEASES
INDUSTRY
THORACIC ONCOLOGY
AIRWAY DISEASES
INTERSTITIAL LUNG DISEASE
PAEDIATRIC RESPIRATORY DISEASES
RESPIRATORY CRITICAL CARE
RESPIRATORY INFECTIOUS
SLEEP AND BREATHING DISORDERS
THORACIC ONCOLOGY
INDUSTRY

TP-14 12:50 14:40 Thematic poster - Primary care management of asthma
TP-15 12:50 14:40 Thematic poster - Genetics in chronic pulmonary diseases
TP-16 12:50 14:40 Thematic poster - COPD: immune regulation and therapeutic targets
TP-17 12:50 14:40 Thematic poster - COPD: novel pathological mechanisms in the airway epithelium
TP-18 12:50 14:40 Thematic poster - Role of microbial exposure and inflammation in lung injury
TP-19 12:50 14:40 Thematic poster - Triggers of acute lung injury: mechanical ventilation and oxygen levels
TP-20 12:50 14:40 Thematic poster - Cardiovascular and metabolic consequences of sleep-disordered breathing
TP-21 12:50 14:40 Thematic poster - Treatments that can serve as an alternative to positive airway pressure (PAP)
TP-22 12:50 14:40 Thematic poster - Sleep and breathing control: phenotypes
TP-23 12:50 14:40 Thematic poster - COPD management
TP-24 12:50 14:40 Thematic poster - Studies on the mechanisms underlying airway disease
TP-25 12:50 14:40 Thematic poster - Airway disease: recent discoveries
TP-26 12:50 14:40 Thematic poster - Clinical and functional monitoring in airway disease
TP-27 12:50 14:40 Thematic poster - Asthma, rhinitis and COPD: cells, mediators, biomarkers and genetics
TP-28 12:50 14:40 Thematic poster - Epidemiology of asthma, COPD and factors that associate with lung function
TP-29 12:50 14:40 Thematic poster - Respiratory epidemiology: from infectious diseases to lung cancer
TP-30 12:50 14:40 Thematic poster - Occupational and environmental lung diseases: inhaled air quality and health effects
TP-31 12:50 14:40 Thematic poster - Epidemiology of the use of traditional and emerging tobacco products and e-cigarettes
TP-32 12:50 14:40 Thematic poster - Tobacco use, attitudes and cessation training among healthcare professionals and prevention programmes
TP-33 12:50 14:40 Thematic poster - Improvements in the assessment of paediatric physiology
TP-34 12:50 14:40 Thematic poster - Paediatric asthma: new insights in its prevalence, treatment and treatment failure
TP-35 12:50 14:40 Thematic poster - Cystic fibrosis in paediatric patients: current research
TP-36 12:50 14:40 Thematic poster - Paediatric respiratory infections: mechanistic insights and clinical outcomes
TP-37 12:50 14:40 Thematic poster - Neonatology and paediatric intensive care
TP-38 12:50 14:40 Thematic poster - Insights in primary ciliary dyskinesia, asthma and lung function testing
TP-39 12:50 14:40 Thematic poster - Clinical challenges in respiratory infection
TP-40 12:50 14:40 Thematic poster - Difficult-to-treat respiratory infections
TP-41 12:50 14:40 Thematic poster - The immune response to tuberculosis: development of biomarkers and diagnostic tools
TP-42 12:50 14:40 Thematic poster - Drug-resistant tuberculosis and the sequelae of pulmonary tuberculosis
TP-43 12:50 14:40 Thematic poster - Diagnosis of tuberculosis
TP-44 12:50 14:40 Thematic poster - Management of idiopathic interstitial pneumonias: established and new treatments
TP-45 12:50 14:40 Thematic poster - Back to basics and translational research in idiopathic interstitial pneumonias

ROOM | TIME | SESSION | TAG | PRICE
--- | --- | --- | --- | ---
7.3A | 13:00 | Lunchtime session | Clinical |
7.3A | 13:30 | Bronchiectasis: new insights in diagnosis and treatment | Clinical |
7.3J | 13:00 | Lungs on fire | Clinical |
7.3J | 13:15 | Pulmonary Vascular Diseases & Respiratory Infections | Clinical |
7.2B | 13:00 | Lungs on fire | Clinical |
7.2B | 13:15 | Respiratory Infections | Clinical |
7.3Q | 13:00 | Lungs on fire | Clinical |
7.3Q | 13:15 | Sleep and Breathing Disorders | Clinical |
7.2D | 13:00 | Meet the expert | Clinical |
7.2D | 13:15 | ME9 Cryobiopsy in interstitial lung disease | € 122 |
7.3F | 13:00 | Meet the expert | Clinical |
7.3F | 13:15 | ME10 Pulmonary arterial hypertension: treatment options | € 122 |
7.3E | 13:00 | Meet the expert | Clinical |
7.3E | 13:15 | ME11 Management of severe asthma in children | € 122 |
7.3I | 13:00 | Meet the expert | Clinical |
7.3I | 13:15 | ME12 Immunotherapies for lung cancer | € 122 |
7.3U | 13:15 | Meet the expert | Clinical |
7.3U | 13:30 | ME13 Management of pulmonary and critical care disease during pregnancy | € 122 |
7.3V | 13:30 | Skills workshop | Clinical |
7.3V | 17:00 | SW20 Clinical interpretation of spirometry results | € 122

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<td>Poster discussion Occupational and environmental lung diseases: air quality and lung damage</td>
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<td>Poster discussion Disease exacerbations from a molecular point of view</td>
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<td>Effect of environmental exposure on lung function outcomes</td>
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<td>Novel and established imaging studies and findings</td>
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<td>What is new in idiopathic interstitial pneumonias?</td>
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<td>Preclinical pharmacology: novel targets in airway inflammation, narrowing and neural control</td>
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<td>The importance of the pulmonary function test in different clinical settings</td>
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<td>The airway microbiome across the spectrum of airway disease</td>
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<td>Sarcoidosis: from basic research to patient outcomes</td>
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<td>Upper airways morphology and diagnostics, and the challenges associated with mandibular advancement</td>
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<td>Lung cancer: novel molecular markers and mechanisms</td>
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| 10:45 | 7.3Q    | Oral presentation
Progress in basic and translational research on idiopathic interstitial pneumonias |
| 10:45 | 7.3P    | Oral presentation
Eosinophils in airway disease |
| 10:45 | 7.3Z2   | Oral presentation
New insights in the signalling pathways that underlie IPF pathophysiology |
| 10:45 | Terminal 7 | Oral presentation
Hot topics in non-invasive ventilation |
| 10:45 | 7.2A    | Poster discussion
Exploring the importance of daily physical activity in chronic respiratory disease |
| 10:45 | 7.2B    | Poster discussion
New developments in paediatric asthma |
| 10:45 | 7.2C    | Poster discussion
New therapies for respiratory infections: experimental and translational studies |
| 10:45 | 7.2D    | Poster discussion
Biomarkers of COPD and asthma-COPD overlap syndrome (ACOS) |
| 10:45 | 7.3J    | Poster discussion
Determinants and monitoring of asthma control |
| 10:45 | 7.3L    | Poster discussion
Endoscopic lung volume reduction |
### ERS ASSEMBLIES AND GROUPS MEMBERS’ MEETINGS

**SUNDAY 16 SEPTEMBER 2018**

<table>
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| 7.3K     | 13:00 | Assembly members’ meeting  
Assembly 2 Respiratory intensive care |
| 7.3B     | 13:00 | Assembly members’ meeting  
Assembly 4 Clinical physiology and sleep |
| 7.3M     | 13:00 | Assembly members’ meeting  
Assembly 8 Thoracic surgery and transplantation |
| 7.1A     | 17:00 | Assembly members’ meeting  
Assembly 9 Allied respiratory professionals |
| 7.3Q     | 13:00 | Assembly members’ meeting  
Assembly 10 Respiratory infections |
| 7.3P     | 13:00 | Assembly members’ meeting  
Assembly 11 Thoracic oncology |
| 7.3O     | 13:00 | Assembly members’ meeting  
Assembly 12 Interstitial lung diseases |
| 7.3J     | 13:00 | Assembly members’ meeting  
Assembly 13 Pulmonary vascular diseases |

**MONDAY 17 SEPTEMBER 2018**

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| 7.3B     | 13:00 | Assembly members’ meeting  
Assembly 1 Clinical |
| 7.3P     | 13:00 | Assembly members’ meeting  
Assembly 3 Basic and translational sciences |
| 7.3K     | 13:00 | Assembly members’ meeting  
Assembly 5 Airway diseases |
| 7.3O     | 13:00 | Assembly members’ meeting  
Assembly 6 Epidemiology and Environment |
| 7.3M     | 13:00 | Assembly members’ meeting  
Assembly 7 Paediatrics |
| 7.3K     | 17:00 | Group members’ meeting  
Group 9.2 Physiotherapists |
INDUSTRY SPONSORED SESSIONS

DISCLAIMER: EVENING SYMPOSIA, EVENING MINI SYMPOSIA, EARLY MORNING SYMPOSIA, EVENING EXPERT FORUM AND PRACTICAL WORKSHOPS ARE ORGANISED BY INDUSTRY. YOU CANNOT CLAIM CME CREDITS FOR ATTENDING THESE SESSIONS.
## INDUSTRY SPONSORED SESSIONS

### SUNDAY 16 SEPTEMBER 2018

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| 7.2A | 13:15| Industry practical workshop  
Reading between the guidelines: the use of FeNO measurement in asthma management today | Circassia Ltd |
| 7.2C | 13:15| Industry practical workshop  
Connected health & big data in Sleep – innovative usage and future outlook | ResMed |
| 7.3L | 13:15| Industry practical workshop  
Advanced Monitoring in a Next Generation Ventilatory | Philips |
| 7.3W | 13:15| Industry practical workshop  
Clinical Usefulness of Diffusion Capacity - DLCO. | ndd Medizintechnik AG |
| 7.3X | 13:15| Industry practical workshop  
Interventional Pulmonologist, the toolkit you need | Boston Scientific |
| 7.3Y | 13:15| Industry practical workshop  
Flexible and Rigid Bronchoscopy in Adults | Karl Storz SE & Co. KG |
| Terminal 7 | 13:15| Industry practical workshop  
Latest progress in mouthpiece ventilation in life support | ResMed |
| 7.3C | 17:15| Industry evening symposium  
Update on Severe Eosinophilic Asthma: Decision Making in Clinical Practice | AstraZeneca PLC |
| 7.3K | 17:15| Industry evening symposium  
A new breath-triggered inhaler for asthma: delivering innovation through design | Mundipharma International Limited |
| 7.3L | 17:15| Industry evening symposium  
Discovering asthma paradigms in an evolving landscape: Experts Perspectives | Sanofi Genzyme and Regeneron |
| 7.3M | 17:15| Industry evening symposium  
COPD Patients and Doctors: Travelling in the same direction? | Menarini group |
| 7.3O | 17:15| Industry evening symposium  
Getting to the ‘heart’ of COPD management: time for personalization? | Novartis Pharma AG |
| 7.3P | 17:15| Industry evening symposium  
Achieve more – Taking an evidence-based approach to PAH management | Actelion Pharmaceuticals Ltd |
| 7.3Q | 17:15| Industry evening symposium  
Effectiveness in every day clinical practice: New data from the Salford Lung Study in asthma | GSK |
| 7.3Z1 | 17:15| Industry evening symposium  
Bridging the gap between research and clinical practice – where next in IPF? | F. Hoffmann-La Roche Ltd |
| 7.3Z2 | 17:15| Industry evening symposium  
Managing multiple outcomes in COPD: Blending data with patient priorities | Boehringer Ingelheim International GmbH |
| 7.3J | 17:30| Industry evening mini symposium  
Advances in Genetic COPD: Implementation of AATD Research Findings in Clinical Practice | Grifols |
| 7.3W | 17:30| Industry evening mini symposium  
Updates and current challenges in difficult-to-treat pneumonia | Pfizer |
| 7.3X | 17:30| Industry evening mini symposium  
Discover New Dimensions in Interventional Pulmonology | Olympus Europa SE & CO KG |
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<td>Type 2 Inflammation and the Evolving Profile of Uncontrolled Persistent Asthma</td>
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<td>6 Month Results of Safety and Feasibility Study in Chronic Bronchitis Patients</td>
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<td>Patients as partners in drug development: From rhetoric into reality in a connected world</td>
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<td>Expiratory Flow Limitation - What is it and Why it Matters</td>
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<td>14:30</td>
<td>Optimal Patient Selection for Successful Treatment of Severe Lung Emphysema</td>
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<td>Industry practical workshop</td>
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<td>Endobronchial and Pleural Ultrasound Workshop</td>
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<td>Industry practical workshop</td>
<td>ResMed</td>
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<td>Interactive session on home NIV for COPD: how can technology support better care and care management.</td>
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<td>7.3C</td>
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<td>Industry evening symposium</td>
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<td>Aiming for Optimal Asthma Care: A Metamorphosis in Asthma Care?</td>
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<td>Industry evening symposium</td>
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<td>19:15</td>
<td>The asthma patient journey: what more can be done?</td>
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<td>Early management of asthma to prevent adverse outcomes – different management strategies according to age group</td>
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<td>7.3N</td>
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<td>Industry evening symposium</td>
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<td>Current COPD treatment paradigm and evidence: What are the unanswered questions and the clinical implications?</td>
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<td>7.3Q</td>
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<td>Severe Asthma in FOCUS: How can we Reduce OCS Use</td>
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<td>Industry evening symposium</td>
<td>Boehringer Ingelheim International GmbH</td>
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<td>Fibrosing Interstitial Lung Diseases: Translating Recent Learnings Into Future Directions</td>
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<td>Industry evening mini symposium</td>
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<td>19:00</td>
<td>Targeted Lung Denervation (TLD)- A One-Time Treatment for COPD and Severe Asthma</td>
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<td>7.2B</td>
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<td>Industry evening mini symposium</td>
<td>Orion Pharma and Menarini group</td>
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<td>19:00</td>
<td>Back to basics in asthma and COPD: optimizing the patient journey</td>
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<td>Industry evening mini symposium</td>
<td>OMRON Healthcare Europe B.V.</td>
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<td>The Rhinitis-Asthma link in childhood: pathogenesis, old and new therapeutic solutionsThe Rhinitis-Asthma link in childhood: pathogenesis, old and new therapeutic solutions</td>
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<td>Industry evening mini symposium</td>
<td>Grifols</td>
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<td>Bronchiectasis: from Guidelines to Clinical Practice</td>
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<td>Industry evening mini symposium</td>
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<td>19:00</td>
<td>How important is early action in Pulmonary Arterial Hypertension?</td>
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<td>7.3R</td>
<td>17:30</td>
<td>Industry evening mini symposium</td>
<td>CSL Behring</td>
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<td>19:00</td>
<td>Focusing on the patient – future prospects in Alpha 1 management</td>
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### TUESDAY 18 SEPTEMBER 2018

<table>
<thead>
<tr>
<th>ROOM</th>
<th>TIME</th>
<th>SESSION</th>
<th>ORGANISED BY</th>
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<tbody>
<tr>
<td>7.3M</td>
<td>13:00</td>
<td><strong>Joint ERS - Industry Lunchtime session</strong></td>
<td>Boehringer Ingelheim, GSK, Mundipharma, Teva, Novartis</td>
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<td></td>
<td>14:30</td>
<td><strong>Advances in inhaler technology</strong></td>
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<td>7.2A</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong></td>
<td>Medtronic</td>
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<td>14:30</td>
<td><strong>Advances in respiratory care: Endobronchial ablation and Lung Volume Reduction</strong></td>
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<td>7.2C</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong></td>
<td>Physio Assist</td>
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<td>14:30</td>
<td><strong>Innovation in Airway Clearance: Discover the direct action of the Simeox technology on mucus rheology and the clinical impact on bronchial drainage</strong></td>
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<td>7.3L</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong></td>
<td>Fisher &amp; Paykel Healthcare</td>
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<td><strong>Humidified nasal high flow for respiratory support in the chronic setting</strong></td>
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<td>7.3W</td>
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<td><strong>Industry practical workshop</strong></td>
<td>FUJIFILM SonoSite</td>
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<td><strong>Endobronchial and Pleural Ultrasound Workshop</strong></td>
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<td>7.3X</td>
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<td><strong>Industry practical workshop</strong></td>
<td>Erbe Elektromedizin GmbH</td>
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<td><strong>Transbronchial cryobiopsy</strong></td>
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<td>Terminal 7</td>
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<td><strong>Industry practical workshop</strong></td>
<td>KARL STORZ SE &amp; Co. KG</td>
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<td>14:30</td>
<td><strong>Portable PAP treatment 2.0: innovative technologies and connected care</strong></td>
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<td>7.3C</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong></td>
<td>Chiesi Farmaceutici S.p.A</td>
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<td>19:15</td>
<td><strong>Leaving a mark in asthma and COPD - Innovation Footprints in Respiratory Care</strong></td>
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<td>7.3K</td>
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<td><strong>Industry evening symposium</strong></td>
<td>AstraZeneca</td>
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<td>19:15</td>
<td><strong>Inflammation and Treatable Traits in COPD: How to Reconcile Strategy and Practice</strong></td>
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<td>7.3M</td>
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<td><strong>Industry evening symposium</strong></td>
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<td><strong>Anti-IL-5 treatment options for the severe eosinophilic asthma patient: Are they all the same?</strong></td>
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<td>7.3P</td>
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<td><strong>Industry evening symposium</strong></td>
<td>Boehringer Ingelheim International GmbH</td>
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<td>19:15</td>
<td><strong>Priorities and preferences: Does inhaler choice make a difference in COPD?</strong></td>
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<td>7.2A</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong></td>
<td>Broncus Medical</td>
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<td>19:00</td>
<td><strong>The Next Step in Disease Management from an Interventional Pulmonology Perspective: Focusing on Lung Nodules and Emphysema</strong></td>
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<td>7.2B</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong></td>
<td>Merck &amp; Co, Inc.</td>
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<td><strong>Can the ESC/ERS Pulmonary Hypertension Guideline Targets be Achieved?</strong></td>
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<td>7.2D</td>
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<td><strong>Industry evening mini symposium</strong></td>
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<td><strong>Novelties in ICS nebulization treatments</strong></td>
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<td>7.3W</td>
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<td><strong>Industry evening expert forum</strong></td>
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<td>19:00</td>
<td><strong>Controversies in NTM lung disease - an interactive case discussion</strong></td>
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<td>7.3X</td>
<td>17:30</td>
<td><strong>Industry evening expert forum</strong></td>
<td>Pfizer</td>
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<td>19:00</td>
<td><strong>Protection of Patients With Chronic Respiratory Diseases and Other Comorbid Conditions Against Pneumonia: Changing Paradigms</strong></td>
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PROGRAMME DETAILED
<table>
<thead>
<tr>
<th>Room</th>
<th>Session 2</th>
<th>09:30 - 10:30</th>
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<tbody>
<tr>
<td>No Room</td>
<td>Public: Press conference and opening of Healthy Lungs for Life Paris - city centre</td>
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</table>
**Session 5 09:00 - 17:30**

*Registration for this session is additional to the conference registration fee and is €122*

**Professional development: PDW1 Spirometry training programme: become a programme organiser**

**Aims:** Access educational materials here. To provide participants with the knowledge and tools to teach high quality spirometry, specifically to those participants who would like to train and certify participants for the European Spirometry Driving Licence Parts 1 and 2 within Europe.

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Lung function technologist, Nurse, General practitioner

**Chairs:** Felip Burgos Rincon (Barcelona, Spain), Brendan Cooper (Edgbaston (Birmingham), United Kingdom)

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Arrival and poster viewing: all faculty</td>
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<tr>
<td>09:30</td>
<td>Welcome and ice-break</td>
<td>Vera Habes (Utrecht, Netherlands), Odile Van Eck (Waalre, Netherlands)</td>
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<tr>
<td>10:00</td>
<td>Introduction and overview of the spirometry training programme</td>
<td>Felip Burgos Rincon (Barcelona, Spain), Brendan Cooper (Edgbaston (Birmingham), United Kingdom)</td>
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<tr>
<td>10:20</td>
<td>Presentation and facilitation skills</td>
<td>Vera Habes (Utrecht, Netherlands), Odile Van Eck (Waalre, Netherlands)</td>
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<tr>
<td>11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:20</td>
<td>Presentation activities</td>
<td>Vera Habes (Utrecht, Netherlands), Odile Van Eck (Waalre, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>12:30</td>
<td>Learning styles and overcoming resistance</td>
<td>Vera Habes (Utrecht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Felip Burgos Rincon (Barcelona, Spain)</td>
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<tr>
<td>13:00</td>
<td>Lunch</td>
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<tr>
<td>13:45</td>
<td>Organising a European spirometry training programme</td>
<td>Felip Burgos Rincon (Barcelona, Spain)</td>
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<tr>
<td>14:15</td>
<td>Providing effective feedback</td>
<td>Suzanne Schut (Maastricht, Netherlands)</td>
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<tr>
<td>15:15</td>
<td>Break</td>
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<tr>
<td>16:15</td>
<td>Assessment of practical skills</td>
<td>Vera Habes (Utrecht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Felip Burgos Rincon (Barcelona, Spain)</td>
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<tr>
<td>16:45</td>
<td>Final questions and summary of the day</td>
<td>Vera Habes (Utrecht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Odile Van Eck (Waalre, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Felip Burgos Rincon (Barcelona, Spain), Suzanne Schut (Maastricht, Netherlands)</td>
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**Session 8 09:30 - 17:30**

*Registration for this session is additional to the congress registration fee and is €268 on site, €244 standard*

**Postgraduate course: PG1 Asthma and chronic obstructive pulmonary disease**

**Aims:** Access educational materials here. To discuss the problems associated with chronic obstructive lung diseases (COPDs) based on experience and the published literature.

**Disease(s):** Airway diseases

**Method(s):** Physiology

**Tag(s):** Clinical

**Target audience:** Allergist, General practitioner, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician
### Session 6

**09:30 - 17:30**

**Registration for this session is additional to the congress registration fee and is €268 on site, €244 standard**

**Postgraduate course: PG2 Thoracic ultrasound FULLY BOOKED**

Enhance your sonography practice beyond identification of pleural fluid

**Aims**: Access educational materials here to provide a solid theoretical framework for physicians wishing to develop their ultrasound skills; to encourage evidence-based practice where possible; to highlight the utility of thoracic ultrasound beyond identification of pleural fluid, including assessment of other thoracic structures; to show that, after suitable training, physicians can safely perform thoracic interventions (including image-guided pleural biopsies); and to provide a solid background for the thoracic ultrasound educational skills workshop.

**Disease(s):** Respiratory critical care, Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Imaging, Physiology, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Nurse, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Silvia Mongodi (Pavia, Italy), Peter I. Bonta (Amsterdam, Netherlands)

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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>09:30</td>
<td>The physics of ultrasound</td>
<td>John Wrightson (Oxford, United Kingdom)</td>
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<td>10:00</td>
<td>Thoracic ultrasound artefacts</td>
<td>Valentina Pinelli (Brescia (BS), Italy)</td>
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<td>10:30</td>
<td>Assessment of parenchymal abnormalities</td>
<td>Christian B. Laursen (Odense, Denmark)</td>
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<td>11:00</td>
<td>Break</td>
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<td>11:30</td>
<td>Pneumothorax</td>
<td>John Corcoran (Oxford, United Kingdom)</td>
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<td>12:00</td>
<td>Group assignment</td>
<td>John Wrightson (Oxford, United Kingdom), Valentina Pinelli (Brescia (BS), Italy), Christian B. Laursen (Odense, Denmark), John Corcoran (Oxford, United Kingdom)</td>
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<tr>
<td>13:00</td>
<td>Lunch</td>
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<td>14:00</td>
<td>Pleural effusions and thickening</td>
<td>Najib M. Rahman (Oxford, United Kingdom)</td>
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<td>14:30</td>
<td>Basic echocardiography, vascular structures and volume status</td>
<td>Peter Juhl-Olsen (Aarhus N, Denmark)</td>
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<td>15:00</td>
<td>Diaphragm assessment</td>
<td>John Wrightson (Oxford, United Kingdom)</td>
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<td>15:30</td>
<td>Break</td>
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<tr>
<td>16:00</td>
<td>Advanced interventions</td>
<td>Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom)</td>
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<td>16:30</td>
<td>Group assignment</td>
<td>Najib M. Rahman (Oxford, United Kingdom), Peter Juhl-Olsen (Aarhus N, Denmark), John Wrightson (Oxford, United Kingdom), Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom)</td>
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**Registration for this session is additional to the congress registration fee and is €98 on site, €86 standard.**

**Postgraduate course: PG3 How to plan for and manage a respiratory epidemic/pandemic**

**PREPARE EU-funded project, organised in conjunction with ECDC and ISARIC**

**Aims:** Access educational materials here To give the multidisciplinary team managing a respiratory epidemic or pandemic an educational update on the topic, tools for planning and management, and then enable them to participate in an escalating pandemic scenario to improve their skills and communication. To reflect on how plans can be individualised to participants’ countries, and how management may change depending on the organism and population involved. To explore lessons learnt from the current influenza epidemic.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical, Translational

**Target audience:** Clinical researcher, Critical/Intensive care physician, Paediatrician, Pathologist, Patient, Policy maker, Scientist (basic, translational), Trainee, Adult pulmonologist/Clinician

**Chairs:** Anita Simonds (London, United Kingdom), Pasi Penttinen (Stockholm, Sweden)

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<th>Time</th>
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<tr>
<td>09:30</td>
<td>Update on respiratory virus research and clinical care including influenza outbreak 2017-18, SARS, MERS and other respiratory pathogens</td>
<td>Pieter Fraaij (Rotterdam, Netherlands)</td>
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<td>10:15</td>
<td>Intensive care aspects of pandemic management including research</td>
<td>Lennie P. G. Derde (Utrecht, Netherlands)</td>
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<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:15</td>
<td>Preparing a pandemic plan for your hospital</td>
<td>Pasi Penttinen (Stockholm, Sweden)</td>
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<td>12:00</td>
<td>Communication skills when managing a pandemic</td>
<td>Kajsa-Stina Longuère (Oxford (Oxfordshire), United Kingdom)</td>
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<td>12:45</td>
<td>Lunch</td>
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<td>13:30</td>
<td>How to research during an acute respiratory pandemic: incorporating patients into trial design and ethical aspects</td>
<td>Nina Gobat (Cardiff, United Kingdom)</td>
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</table>
14:00  Practical exercise: respiratory pandemic scenario (ISARIC/ERS)
Pieter Fraaij (Rotterdam, Netherlands), Louise Sigfrid (Brighton (East Sussex), United Kingdom), Lennie P. G. Derde (Utrecht, Netherlands), Anita Simonds (London, United Kingdom)

17:00  Constructive feedback and lessons learned from scenario
Louise Sigfrid (Brighton (East Sussex), United Kingdom), Nina Gobat (Cardiff, United Kingdom), Anita Simonds (London, United Kingdom), Pieter Fraaij (Rotterdam, Netherlands)

Session 9  09:30 - 13:00
Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.

Postgraduate course: PG4 Imaging of the chest
A concise overview

Aims: Access educational materials here. To provide a review of the various patterns on (high-resolution) computed tomography (CT) chest, of positron emission tomography (PET)/CT, of magnetic resonance imaging (MRI) as well as ultrasound in imaging of various lung diseases; and to provide basic guidelines for the differential diagnosis of and an algorithmic approach to various lung and pleura pathologies on the basis of clinical history and distribution as well as the presence of associated abnormalities.

Disease(s): Interstitial lung diseases  Thoracic oncology
Method(s): Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Physiology  Respiratory intensive care  Surgery

Tag(s): Clinical

Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Pathologist, Physiologist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Laura Fregonese (London, United Kingdom), Aleksandar Grgic (Homburg, Germany)

09:30  CT and interstitial lung disease
Sara Piciucchi (Forlì, Italy)

10:00  Group assignment
Sara Piciucchi (Forlì, Italy)

10:15  PET/CT of lung cancer
Aleksandar Grgic (Homburg, Germany)

10:45  Group assignment
Aleksandar Grgic (Homburg, Germany)

11:00  Break

11:30  Role of MRI in thoracic imaging
Helmut Prosch (Vienna, Austria)

12:00  Group assignment
Helmut Prosch (Vienna, Austria)

12:15  Imaging of the pleura - how can thoracic ultrasound, CT and PET assist the chest physician
Rahul Bhatnagar (Bristol, United Kingdom)

12:45  Group assignment
Rahul Bhatnagar (Bristol, United Kingdom)

Session 7  09:30 - 13:00
Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.

Postgraduate course: PG5 Noninvasive ventilation - pitfalls and challenges

Aims: Access educational materials here. To highlight the problems in acute and chronic noninvasive ventilation (NIV) that lead to poor compliance and ineffective treatment, and to offer strategies that can overcome these issues.

Disease(s): Respiratory critical care
Method(s): General respiratory patient care  Respiratory intensive care

Tag(s): Clinical

Target audience: Critical/Intensive care physician, General practitioner, Nurse, Patient, Trainee, Adult pulmonologist/Clinician

Chairs: Jan Storre (Gauting, Germany), Federico Longhini (Borgomanero, Italy), Nicholas Hart (London, United Kingdom)
### Session 12 09:30 - 13:00

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

**Postgraduate course: PG6 Bronchoscopy in pulmonary emergencies**

**Aims:** Access educational materials here to describe the clinical applications and risks of bronchoscopy in the main pulmonary emergencies, both inside and outside the intensive care unit.

**Disease(s):** [Interstitial lung diseases] [Respiratory critical care]

**Method(s):** Endoscopy and interventional pulmonology  Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Adult pulmonologist/Clinician

**Chairs:** Lieuwe Bos (Amsterdam, Netherlands), Maren Schuhmann (Heidelberg, Germany)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Bronchoscopic strategies in life-threatening bleeding</td>
<td>Prashant Nemichand Chhajed</td>
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<td>(Mumbai, India)</td>
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<tr>
<td>10:00</td>
<td>Bronchoscopy as a guide to managing difficult airways in the intensive care unit</td>
<td>Massimiliano Sorbello</td>
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<td>(Catania, Italy)</td>
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<tr>
<td>10:30</td>
<td>Usefulness of bronchoscopy in acute interstitial lung diseases</td>
<td>Katerina Antoniou</td>
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<td>(Heraklion, Greece)</td>
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<tr>
<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:30</td>
<td>Pitfalls of bronchoscopy in non-ventilated patients</td>
<td>Raffaele Scala</td>
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<td>(Arezzo, Italy)</td>
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<td>12:00</td>
<td>Group assignment</td>
<td>Prashant Nemichand Chhajed</td>
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<td>Massimiliano Sorbello</td>
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<td>Raffaele Scala</td>
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<td>Katerina Antoniou</td>
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### Session 10 09:30 - 13:00

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

**Postgraduate course: PG7 Sleep-disordered breathing - diagnosis and therapy**

**Aims:** Access educational materials here to increase awareness of the different clinical entities that relate to sleep-disordered breathing and the tools that can be used to screen for and diagnose sleep-disordered breathing; and to provide insights into the consequences of sleep-disordered breathing and its treatment modalities.

**Disease(s):** [Sleep and breathing disorders]

**Tag(s):** Clinical

**Target audience:** General practitioner, Lung function technologist, Adult pulmonologist/Clinician, Scientist (basic, translational), Trainee

**Chairs:** Juan Fernando Masa Jiménez (Cáceres, Spain), Winfried J. Randerath (Solingen, Germany)

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Diagnosis and treatment of sleep-disordered breathing - the patient’s point of view</td>
<td>Piet-Heijn van Mechelen</td>
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<td>(Heemstede, Netherlands)</td>
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</tbody>
</table>
Diagnosis of sleep-related breathing disorders and definition of hypopnoea and obstructive sleep apnoea severity
Sophia E. Schiza (Heraklion, Greece)

Group assignment
Sophia E. Schiza (Heraklion, Greece)

Sleep apnoea and hypoventilation syndromes - cardiometabolic consequences
Dries Testelmans (Leuven, Belgium)

Group assignment
Dries Testelmans (Leuven, Belgium)

Break

Sleep apnoea - management and therapies
Jean-Louis Pépin (Grenoble, France)

Group assignment
Jean-Louis Pépin (Grenoble, France)

Hypoventilation syndromes - management and therapies
Jean Christian Borel (Meylan, France)

Group assignment
Jean Christian Borel (Meylan, France)

Postgraduate course: PG8 Lung function testing
Techniques, performance and implications for lung disease

Aims: Access educational materials here to provide an update on the current techniques for measuring lung physiology. The results of these techniques and their implications in terms of lung disease will be discussed as well as how these techniques are performed.

Disease(s): Airway diseases, Sleep and breathing disorders

Method(s): General respiratory patient care, Physiology, Pulmonary function testing

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Aisling McGowan (Dublin, Ireland), Andrea Aliverti (Milan, Italy)

09:30 Spirometry and body plethysmography
Bruce Thompson (Melbourne, Australia)

Group assignment
Bruce Thompson (Melbourne, Australia)

Forced oscillation technique
Zoltán Hantos (Deszk, Hungary)

Group assignment
Zoltán Hantos (Deszk, Hungary)

Break

Multi-breath washout
Sylvia Verbanck (Brussels, Belgium)

Group assignment
Sylvia Verbanck (Brussels, Belgium)

Exhaled nitric oxide
Paolo Paredi (London, United Kingdom)

Group assignment
Paolo Paredi (London, United Kingdom)
### Session 13 09:30 - 13:00

**Postgraduate course: PG9 Chronic obstructive pulmonary disease exacerbations**

**Aims:** Access educational materials here to provide an update on chronic obstructive pulmonary disease (COPD) exacerbation phenotypes and the prospects for personalised treatment.

**Disease(s):** Airway diseases, Respiratory infections

**Method(s):** Epidemiology, General respiratory patient care

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Patient, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Jadwiga Wedzicha (London, United Kingdom), Alexander Mathioudakis (Manchester, United Kingdom)

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<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td><strong>COPD exacerbation - the search for a respiratory “troponin”</strong></td>
<td>Wim Janssens (Leuven, Belgium)</td>
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<td>10:00</td>
<td><strong>Group assignment</strong></td>
<td>Wim Janssens (Leuven, Belgium)</td>
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<tr>
<td>10:15</td>
<td><strong>Bacterial infection and COPD - cause or effect?</strong></td>
<td>Aran Singanayagam (London, United Kingdom)</td>
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<td>10:45</td>
<td><strong>Group assignment</strong></td>
<td>Aran Singanayagam (London, United Kingdom)</td>
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<td>11:00</td>
<td><strong>Break</strong></td>
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<tr>
<td>11:30</td>
<td><strong>It is more than just the common cold - the role of viruses in COPD exacerbations</strong></td>
<td>Anastasia Hutchinson (Melbourne, Australia)</td>
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<td>12:00</td>
<td><strong>Group assignment</strong></td>
<td>Anastasia Hutchinson (Melbourne, Australia)</td>
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<tr>
<td>12:15</td>
<td><strong>Prevention and treatment of COPD exacerbations</strong></td>
<td>Maarten van den Berge (Groningen, Netherlands)</td>
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<td>12:45</td>
<td><strong>Group assignment</strong></td>
<td>Maarten van den Berge (Groningen, Netherlands)</td>
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### Session 15 09:30 - 13:00

**Postgraduate course: PG10 Cystic fibrosis: Basic defects and clinical problems in children**

**Aims:** Access educational materials here to update both paediatric and adult professionals involved in cystic fibrosis (CF) care on the recent advances in many important aspects of CF in children; including screening, treatment, respiratory exacerbations and management of gastrointestinal problems in CF patients.

**Disease(s):** Paediatric respiratory diseases, Respiratory infections

**Method(s):** Public health

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiotherapist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Nicolas Regamey (Lucerne, Switzerland), Lutz Naehrlich (Erlangen, Germany)

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<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td><strong>Newborn screening for cystic fibrosis - lessons from national programmes in Europe</strong></td>
<td>Jürg Barben (St. Gallen, Switzerland)</td>
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<td>10:00</td>
<td><strong>Group assignment</strong></td>
<td>Jürg Barben (St. Gallen, Switzerland)</td>
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<tr>
<td>10:15</td>
<td><strong>Cystic fibrosis microbiology, emerging pathogens and more treatment options</strong></td>
<td>Alan Smyth (Nottingham (Nottinghamshire), United Kingdom)</td>
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<td>10:45</td>
<td><strong>Group assignment</strong></td>
<td>Alan Smyth (Nottingham (Nottinghamshire), United Kingdom)</td>
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<td>11:00</td>
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<td>11:30</td>
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<td><strong>Respiratory exacerbations - definitions and therapy</strong></td>
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<td><strong>Group assignment</strong></td>
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<td>12:15</td>
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<td><strong>Update on gastrointestinal and nutritional issues</strong></td>
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<td><strong>Group assignment</strong></td>
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### Session 16  09:30 - 13:00

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

**Postgraduate course: PG11 Modern approaches in lung cancer diagnostics and therapy**

**Aims:** Access educational materials here To provide a comprehensive update of modern lung cancer care standards illustrated with educational case reports and rewarding group tasks

**Disease(s):** Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology  Imaging  Physiology  Pulmonary function testing  Surgery  Transplantation

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Pathologist, Radiologist, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Matthew Evison (Manchester, United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:30</td>
<td><strong>Multimodal imaging approaches in suspected and confirmed lung cancer</strong></td>
<td>Johan Coolen (Leuven, Belgium)</td>
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<td>10:00</td>
<td><strong>Group assignment</strong></td>
<td>Johan Coolen (Leuven, Belgium)</td>
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<tr>
<td>10:15</td>
<td><strong>Modern molecular lung cancer diagnostics – how to use and interpret it wisely</strong></td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<tr>
<td>10:45</td>
<td><strong>Group assignment</strong></td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<td>11:00</td>
<td><strong>Break</strong></td>
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<tr>
<td>11:30</td>
<td><strong>Innovative local therapies in lung cancer</strong></td>
<td>Gilbert Massard (Strasbourg, France)</td>
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<td>12:00</td>
<td><strong>Group assignment</strong></td>
<td>Gilbert Massard (Strasbourg, France)</td>
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<tr>
<td>12:15</td>
<td><strong>Innovative systemic lung cancer therapies</strong></td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
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<td>12:45</td>
<td><strong>Group assignment</strong></td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
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### Session 26  14:00 - 17:30

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

**Postgraduate course: PG12 Interventional pulmonology**

**Aims:** Access educational materials here to discuss the major indications for diagnostic and therapeutic interventions in interventional pulmonology; and to present not only the rationale for the intervention, based on key study data, but also the actual performance and “tips and tricks” for daily practice.

**Disease(s):** Interstitial lung diseases  Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology  Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Pathologist, Patient, Thoracic oncologist, Trainee, Adult pulmonologist/Clinician

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<th>Time</th>
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<tr>
<td>14:00</td>
<td><strong>Innovative local therapies in lung cancer</strong></td>
<td>Gilbert Massard (Strasbourg, France)</td>
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<td><strong>Group assignment</strong></td>
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<td><strong>Innovative systemic lung cancer therapies</strong></td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
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<td>15:45</td>
<td><strong>Group assignment</strong></td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
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</table>
### Session 30
**14:00 - 17:30**

**Postgraduate course: PG13 Challenges in the treatment of tuberculosis**

**Aims:**
Access educational materials here. To help clinicians to confidently manage all tuberculosis patients with the aim of achieving tuberculosis elimination in Europe and elsewhere; to help clinicians treat tuberculosis in patients with whom failure of treatment or adherence could result in drug resistance; and to address concerns regarding heart rate-corrected QT interval (QTc) prolongation with current second-line drugs.

**Disease(s):** Respiratory infections

**Method(s):** Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Paediatrician, Trainee, Adult pulmonologist/ Clinician

**Chairs:** Jan Heyckendorf (Hamburg, Germany), Raquel Duarte (Porto, Portugal)

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<th>Time</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Diagnosing and treating paediatric tuberculosis infections</td>
<td>Folke Brinkmann (Hannover, Germany)</td>
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<tr>
<td>14:30</td>
<td>Treating multiple-drug resistant tuberculosis</td>
<td>Lorenzo Guglielmetti (Paris, France)</td>
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<tr>
<td>15:00</td>
<td>Patient testimonial</td>
<td>Lacramioara Vinogradof (Moreni, Romania)</td>
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<tr>
<td>15:10</td>
<td>Treating tuberculosis in patients with comorbidities</td>
<td>Rob van Hest (Groningen, Netherlands)</td>
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<tr>
<td>15:40</td>
<td>Break</td>
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<tr>
<td>16:10</td>
<td>Treating acute complications and the severely ill patient with tuberculosis</td>
<td>Guy Hagan (Solihull (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>16:40</td>
<td>Group assignment</td>
<td>Folke Brinkmann (Hannover, Germany), Lorenzo Guglielmetti (Paris, France), Rob van Hest (Groningen, Netherlands), Guy Hagan (Solihull (West Midlands), United Kingdom)</td>
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### Session 27
**14:00 - 17:30**

**Postgraduate course: PG14 The evolving world of pulmonary rehabilitation**

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Transthoracic ultrasound and thoracoscopy</td>
<td>Michela Bezzi (Firenze (FI), Italy)</td>
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<tr>
<td>14:30</td>
<td>Group assignment</td>
<td>Michela Bezzi (Firenze (FI), Italy)</td>
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<tr>
<td>14:45</td>
<td>Endosonography</td>
<td>Christophe Dooms (Leuven, Belgium)</td>
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<tr>
<td>15:15</td>
<td>Group assignment</td>
<td>Christophe Dooms (Leuven, Belgium)</td>
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<tr>
<td>15:30</td>
<td>Break</td>
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<tr>
<td>16:00</td>
<td>Endoscopic lung volume reduction</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
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<tr>
<td>16:30</td>
<td>Group assignment</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
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<tr>
<td>16:45</td>
<td>Cryobiopsy</td>
<td>Jürgen Hetzel (Tuebingen, Germany)</td>
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<tr>
<td>17:15</td>
<td>Group assignment</td>
<td>Jürgen Hetzel (Tuebingen, Germany)</td>
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</table>

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**
**Aims:** Access educational materials here to provide a better understanding about the role of pulmonary rehabilitation in the integrated continuous care of patients with chronic lung disease who live in industrialised or developing countries; and to discuss in depth the most optimal pulmonary rehabilitation setting

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care, Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, Lung function technologist, Nurse, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Adult pulmonologist/Clinician

**Chairs:** Samuel Vergès (Grenoble, France), Jana De Brandt (Diepenbeek, Belgium)

**14:00** The clear evidence for pulmonary rehabilitation in chronic lung disease - a review of the most important randomised controlled trials
Claire M. Nolan (London, United Kingdom)

**14:30** The optimal setting for pulmonary rehabilitation - inpatient vs. outpatient vs. home-based
Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

**15:00** Group assignment
Claire M. Nolan (London, United Kingdom), Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

**15:30** Break

**16:00** The challenges associated with setting up pulmonary rehabilitation programmes in developing countries
Rupert Jones (Milton Combe, United Kingdom)

**16:30** Making pulmonary rehabilitation a part of an integrated respiratory care
Emiel F. M. Wouters (Maastricht, Netherlands)

**17:00** Group assignment
Rupert Jones (Milton Combe, United Kingdom), Emiel F. M. Wouters (Maastricht, Netherlands)

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**Postgraduate course: PG15 Challenging issues in acute interstitial lung diseases**

**Aims:** Access educational materials here to describe the pathobiological basis, imaging features, diagnostic work-up and ventilatory and non-ventilatory therapeutic strategies in patients with acute interstitial lung diseases (ILDs) who are admitted to the intensive care unit.

**Disease(s):** Interstitial lung diseases, Respiratory critical care

**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Scientist (basic, translational), Adult pulmonologist/Clinician

**Chairs:** António Morais (Maia, Portugal), Raffaele Scala (Arezzo, Italy)

**14:00** Biological and pathological basis of acute ILDs
Philipp A. Schnabel (Homburg (Saar), Germany)

**14:30** Group assignment
Philipp A. Schnabel (Homburg (Saar), Germany)

**14:45** Imaging in acute ILDs
Gilbert R Ferretti (Grenoble, France)

**15:15** Group assignment
Gilbert R Ferretti (Grenoble, France)

**15:30** Break

**16:00** Diagnostic work-up and treatment of patients with acute ILDs
Sara Tomassetti (Forli, Italy)

**16:30** Group assignment
Sara Tomassetti (Forli, Italy)

**16:45** Mechanical ventilation and beyond in acute ILDs
Philipp Lepper (Homburg (Saar), Germany)
### Session 28

#### Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.

**Postgraduate course: PG16 Advanced cardiopulmonary exercise testing**

**Cardiopulmonary exercise testing in health and respiratory disease**

**Aims:** Access educational materials here to understand the physiological constraints of exercise tolerance and its application in clinical practice; to appreciate the optimal methods for testing lung mechanics and spirometry; to understand the different formats of exercise tests, their advantages and disadvantages, and their different prognostic values in adults and children; and to appreciate the usefulness of exercise testing for evaluating pharmacological and non-pharmacological interventions in clinical practice.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Enrico Lombardi (Florence, Italy), Isabelle Vivodtzev (Cambridge, United States of America)

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<td>14:00</td>
<td><strong>Pulmonary gas exchange response to exercise in health and disease</strong></td>
<td>Paolo Palange (Rome, Italy)</td>
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<tr>
<td>14:30</td>
<td><strong>Respiratory mechanics and exertional dyspnoea in health and disease</strong></td>
<td>Denis O'Donnell (Kingston, ON, Canada)</td>
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<tr>
<td>15:00</td>
<td><strong>Group assignment</strong></td>
<td>Paolo Palange (Rome, Italy), Denis O'Donnell (Kingston, ON, Canada)</td>
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<tr>
<td>15:30</td>
<td><strong>Break</strong></td>
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<tr>
<td>16:00</td>
<td><strong>The prognostic role of cardiopulmonary exercise testing in disease</strong></td>
<td>Pierantonio Laveneziana (Paris Cedex 13, France)</td>
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<tr>
<td>16:30</td>
<td><strong>Exercise testing in children with respiratory diseases</strong></td>
<td>Tim Takken (Utrecht, Netherlands)</td>
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<tr>
<td>17:00</td>
<td><strong>Group assignment</strong></td>
<td>Pierantonio Laveneziana (Paris Cedex 13, France), Tim Takken (Utrecht, Netherlands)</td>
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### Session 29

#### Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.

**Postgraduate course: PG17 Asthma phenotyping**

**Therapeutic implications**

**Aims:** Access educational materials here to present the innovations in asthma stratification that facilitate personalised therapeutic strategies; to highlight the importance of stratifying asthma patients for selecting the correct therapeutic approaches; to explain the importance of both clinical and biomarker assessment in patient stratification; and to indicate the value of molecular stratification for understanding disease-driving mechanisms and how this may translate to new therapies, particularly for non-Type 2 (T2) asthma.

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, Physiology

**Tag(s):** Basic science

**Target audience:** Allergist, General practitioner, Lung function technologist, Pathologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Antonio Spanevello (Milan, Italy), Ian M. Adcock (London, United Kingdom)

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<tr>
<td>14:00</td>
<td><strong>The need for asthma phenotyping</strong></td>
<td>Sejal Saglani (London, United Kingdom)</td>
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<tr>
<td>14:30</td>
<td><strong>Biomarker-high patients and steroid responsiveness</strong></td>
<td>Peter Gibson (Newcastle, Australia)</td>
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<tr>
<td>15:00</td>
<td><strong>Group assignment</strong></td>
<td>Sejal Saglani (London, United Kingdom), Peter Gibson (Newcastle, Australia)</td>
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</table>
## Session 31 - Postgraduate course: PG18 Cystic fibrosis: management in adult patients

**Aims:** Access educational materials here to update both paediatric and adult professionals involved in cystic fibrosis (CF) care on the recent advances in many important aspects of CF; to describe the latest knowledge about CF transmembrane conductance regulator (CFTR) dysfunction in CF and how this influences the different organs and leads to new treatments modalities; and to address the special needs caused by CF as an adult disease, namely, the transition of adolescents into adult care, fertility and end-of-life issues.

**Disease(s):** Paediatric respiratory diseases, Respiratory infections

**Method(s):** Public health

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiotherapist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Nicholas Simmonds (London, United Kingdom), Carsten Schwarz (Berlin, Germany)

### Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>The ageing cystic fibrosis patient</td>
<td>Alex Horsley (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>14:30</td>
<td>Caring for end-stage disease and lung transplantation</td>
<td>Christian Benden (Zürich, Switzerland)</td>
</tr>
<tr>
<td>15:00</td>
<td>Group assignment</td>
<td>Alex Horsley (Manchester, United Kingdom), Christian Benden (Zürich, Switzerland)</td>
</tr>
<tr>
<td>15:40</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>CFTR dysfunction and its specific treatment</td>
<td>Jane C. Davies (London, United Kingdom)</td>
</tr>
<tr>
<td>16:30</td>
<td>Fertility in adult cystic fibrosis</td>
<td>Jessica Maetz (Paris, France), Michal Shteinberg (Haifa, Israel)</td>
</tr>
<tr>
<td>17:10</td>
<td>Group assignment</td>
<td>Jane C. Davies (London, United Kingdom), Michal Shteinberg (Haifa, Israel)</td>
</tr>
</tbody>
</table>

## Session 32 - Postgraduate course: PG19 Heart-lung interaction

**Aims:** Access educational materials here to describe the diagnosis and treatment of heart failure and coronary artery disease; to delineate how lung disease hinders the diagnostic process, including physical examination, biomarkers, chest X ray and echocardiography; to discuss the duration of treatment following unprovoked pulmonary embolism, the need to pause anticoagulation before invasive procedures, and the management of bleeding given that new oral anticoagulation has changed, improved and complicated the treatment of acute and chronic pulmonary embolism.

**Disease(s):** Airway diseases, Pulmonary vascular diseases

**Method(s):** General respiratory patient care, Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Patient, Physiologist, Scientist (basic, translational), Student, Trainee

**Chairs:** Lies Lahousse (Ghent, Belgium), Leonardo Michele Fabbri (Modena, Italy)

### Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Chronic obstructive pulmonary disease - cardiovascular sequel of bronchodilation?</td>
<td>Ian Stone (London, United Kingdom)</td>
</tr>
</tbody>
</table>
**Session 3**  
**08:30 - 11:00**

**Language session: Chinese Programme 2018: Part I**  
a joint ERS / CTS session

**Aims:** The session will present and discuss the new advances in respiratory medicine presented by experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine. The session will offer an overview on respiratory viral infectious disease, Pulmonary and Critical Care Medicine, HAP/VAP and non invasive ventilation in Europe and China.

**Tag(s):** Clinical

**Chairs:** Thierry Troosters (Leuven, Belgium), Andrew Bush (London, United Kingdom), Chen Wang (Beijing, China)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Introduction</td>
<td>Thierry Troosters (Leuven, Belgium)</td>
</tr>
<tr>
<td>08:35</td>
<td>Update on management of new emerging acute respiratory viral infectious diseases</td>
<td>Nanshan Zhong (Guangzhou (Guangdong), China)</td>
</tr>
<tr>
<td>09:05</td>
<td>The role of chronic infection in respiratory diseases</td>
<td>Eva Polverino (Barcelona, Spain)</td>
</tr>
<tr>
<td>09:35</td>
<td>Establishment of PCCM training system in China</td>
<td>Chen Wang (Beijing, China)</td>
</tr>
<tr>
<td>10:05</td>
<td>School interventions to improve asthma control</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
</tr>
<tr>
<td>10:35</td>
<td>Break</td>
<td></td>
</tr>
</tbody>
</table>

**Session 4**  
**09:00 - 10:55**

**Language session: Russian Speaking Programme 2018: Part I**

**Rare pulmonary diseases: cystic fibrosis and lymphangioleiomyomatosis (A joint ERS/RSS/ARSRM session)**

**Aims:** To describe different aspects of cystic fibrosis (CF) and lymphangioleiomyomatosis (LAM). These rare diseases are among the most difficult conditions in respiratory medicine in terms of their diagnosis and management.

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Paediatrician, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Elena Amelina (Moscow, Russian Federation), Isabelle Sermet-Gaudelus (Paris, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>An assay of CF transmembrane conductance regulator function that uses primary CF intestinal organoids: shared experiences with the Russian CF centre</td>
<td>Jeffrey M. Beekman (Utrecht, Netherlands)</td>
</tr>
<tr>
<td>09:25</td>
<td>Collaboration between the Russian National CF Patient Registry and the European CF Society Patient Registry</td>
<td>Elena Amelina (Moscow, Russian Federation)</td>
</tr>
<tr>
<td>09:50</td>
<td>Specific features of spectrum and frequency of CFTR mutations in ethnically different populations of the Russian Federation</td>
<td>Nataliya Kashirskaya (Moscow, Russian Federation)</td>
</tr>
</tbody>
</table>
### Session 14: Primary Care Programme 2018: Part I

**Aims:**
This primary care programme will take a new look at some of the core elements of the management of people with long-term respiratory disease.

**Disease(s):**
- Airway diseases
- Paediatric respiratory diseases

**Method(s):**
- Epidemiology
- General respiratory patient care
- Public health

**Tag(s):**
Clinical

**Target audience:**
- Clinical researcher
- General practitioner
- Nurse
- Paediatrician
- Patient
- Policy maker
- Student
- Trainee
- Adult pulmonologist/Clinician

**Chairs:**
- Hilary Pinnock (Edinburgh, United Kingdom)
- Rianne van der Kleij (Leiden, Netherlands)

#### 09:30 - 11:30

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Primary healthcare that is fit for the 21st century</td>
<td>David Darmon (Nice, France)</td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>Developing partnerships with patients</td>
<td>Isabel Saraiva (Cascais, Portugal)</td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>A new look at asthma self-management</td>
<td>Tim Harrison (Nottingham)</td>
<td></td>
</tr>
<tr>
<td>10:45</td>
<td>Improving the quality of the air we breathe</td>
<td>Jeroen Douwes (Wellington)</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Session 18: ELF Patient organisation networking day

#### 10:30 - 17:30

**Welcome to ELF Day**
Isabel Saraiva (Cascais, Portugal), Speaker to be confirmed

**Keynote presentation:**
The Montreal Model of Patient Partnership (Annie Descoteaux, Center of Excellence on Partnership with Patients and Public, Faculty of Medicine, University of Montreal)

**Patient Organisation Posters**

**Patient education and ERS:**
Daiana Stolz (Basel, Switzerland)

**Innovative collaborations in medical and patient education**

**Open forum discussions**

**Group discussions and feedback**

### Session 19: Rare pulmonary diseases: cystic fibrosis and lymphangioleiomyomatosis (A joint ERS/RRS/ARSRM session)

**Aims:**
To describe different aspects of cystic fibrosis (CF) and lymphangioleiomyomatosis (LAM). These rare diseases are among the most difficult conditions in respiratory medicine in terms of their diagnosis and management.

**Tag(s):**
Clinical

**Chairs:**
- Elena Davidovskaya (Belarus)
- Andrey Belevskiy (Moscow, Russian Federation)

#### 10:55 - 13:00

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:55</td>
<td>Modern concept of sporadic LAM pathogenesis</td>
<td>Sergio Harari (Milano, Italy)</td>
<td></td>
</tr>
</tbody>
</table>
### Session 20 11:00 - 13:00

**Language session: Chinese Programme 2018: Part II**  
*a joint ERS / CTS session*

**Aims:** The session will present and discuss the new advances in respiratory medicine presented by experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine. The session will offer an overview on respiratory viral infectious disease, Pulmonary and Critical Care Medicine, HAP/VAP and non invasive ventilation in Europe and China.

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Guy F Joos (Ghent, Belgium), Rong-Chang Chen (Guangzhou (Guangdong), China)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>The Chinese New Guideline on HAP/VAP</td>
<td>Jieming Qu (Shanghai, China)</td>
</tr>
<tr>
<td>11:30</td>
<td>HAP/VAP: new guidelines, new approaches</td>
<td>Francesco Blasi (Milan, Italy)</td>
</tr>
<tr>
<td>12:00</td>
<td>Recent advance in home noninvasive mechanical ventilation in China</td>
<td>Rong-Chang Chen (Guangzhou (Guangdong), China)</td>
</tr>
<tr>
<td>12:30</td>
<td>Is there still a role for NIV in acute hypoxemic failure?</td>
<td>Leo M.A. Heunks (Amsterdam, Netherlands)</td>
</tr>
</tbody>
</table>

### Session 21 11:30 - 13:00

**Session: Primary Care Programme 2018: Part II**  
*Getting the basics right: a new look at core issues (part II: a new look at the basics)*

**Aims:** This primary care programme will take a new look at some of the core elements of the management of people with long-term respiratory disease.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Epidemiology, General respiratory patient care, Public health

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Policy maker, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Miguel Román Rodriguez (Palma De Mallorca, Spain), Rachel Jordan (Birmingham (West Midlands), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
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</thead>
<tbody>
<tr>
<td>11:30</td>
<td>Increasing the accuracy of asthma diagnosis</td>
<td>Luke Daines (Edinburgh (Edinburgh), United Kingdom)</td>
</tr>
<tr>
<td>12:00</td>
<td>The challenge of new inhalers</td>
<td>Janwillem W. H. Kocks (Groningen, Netherlands)</td>
</tr>
<tr>
<td>12:30</td>
<td>Breathlessness and a practical strategy for relieving symptoms</td>
<td>Mike Thomas (Southampton (Hampshire), United Kingdom)</td>
</tr>
</tbody>
</table>

### Session 22 13:00 - 16:00

**HERMES examination: ERS HERMES Examinations in Adult and Paediatric Respiratory Medicine**

### Session 23 14:00 - 15:45

**Language session: French Programme 2018: Part I**  
*A joint ERS/SPLF session*
Aims: To provide French-speaking delegates with state of the art updates on key topics in respiratory medicine. Note that the presentations will be conducted in French and French and English versions of the slides will be projected simultaneously.

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Physiologist, Scientist (basic, translational), Paediatrician, Pathologist, Student, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Nicolas Roche (Paris, France), Guy Brusselle (Ghent, Belgium)

14:00 Follow-up of resected bronchial carcinoma / Surveillance des cancers bronchiques opérés
Virginie Westeel (Besançon, France)

14:26 Yield of cohorts in the bronchial diseases / Apport des cohortes dans la connaissance des maladies respiratoires/bronchiques
Chantal Raherison-Semjen (Pessac, France)

Jocelyne Just (Paris, France)

15:18 Big data applied to sleep / Les big-data appliqués au sommeil
Jean-Louis Pépin (Grenoble, France)

Language session: Spanish and Portuguese Programme 2018: Part I
a joint ERS / ALAT / SBPT / SEPAR / SPP session

Aims: Human migration will be a defining feature of the present era. Migration is a complex phenomenon that shapes multiple economic, social and security aspects of our daily lives in this increasingly interconnected world. While some migration is driven by negative circumstances such as conflicts, persecution, environmental degradation and lack of security and opportunity, another key motivation is that it can significantly improve people’s lives: after migrants from the poorest countries move to a developed country, their incomes improve by 15-fold and their child mortality rates drop by 16-fold. This has increased illegal migration to and the influx of refugees in developed countries. Consequently, illegal migration and refugees are increasingly being seen as high-priority policy issues by the public and many governments and throughout the world. With regard to public health, the referral populations of migrants and refugees often have high infectious disease burdens. Thus, the control of infectious diseases, in particular tuberculosis, in migrants should be a top priority for the foreseeable future. Note that the presentations will be conducted in Portuguese or Spanish and in English. Spanish/Portuguese and English versions of the slides will be projected simultaneously.

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Policy maker, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Carlos Andres Jimenez Ruiz (Madrid, Spain), Gustavo Zabert (Neuquén, Argentina)

14:00 Introduction
Carlos Andres Jimenez Ruiz (Madrid, Spain)

14:05 Tuberculosis in a migrating world
Adrian Rendon (Monterrey, Mexico)

14:35 Drug-resistant tuberculosis in Europe
Jose Antonio Caminero Luna (Las Palmas de Gran Canaria, Spain)

15:05 Panel discussion

15:35 Break

Language session: French Programme 2018: Part II
A joint ERS/SPLF session

Aims: To provide French-speaking delegates with state of the art updates on key topics in respiratory medicine. Note that the presentations will be conducted in French and French and English versions of the slides will be projected simultaneously.
Session 34  16:00 - 17:30

Language session: Spanish and Portuguese Programme 2018: Part II
A joint ERS/ALAT/SBPT/SEPAR/SPP session
Aims: To describe ventilation strategies in neurovascular disease and the non-invasive ventilation network in Portugal. Note that the presentations will be conducted in Portuguese or Spanish, and in English, with dual projection of slides in either Spanish or Portuguese and English.

Tag(s): Clinical

Chairs: Venceslau José Coelho Pinto Hespanhol (Porto, Portugal), Fernando Luiz Cavalcanti Lundgren (Recife (PE), Brazil)

16:00 Mechanical ventilation in patients with neuromuscular diseases
Marcelo Alcântara Holanda (Fortaleza (CE), Brazil) 220

16:30 The non-invasive ventilation network in Portugal
Maria José Araújo Cunha Guimarães (Palmeira – Stª Tirso, Portugal) 221

17:00 Panel discussion 222

No Room  Session 35  17:00 - 19:00

Game Zone: GAME ZONE - TRAINING
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW1 Body plethysmography

**Aims:** Access educational materials here to help attendees gain the technical expertise and physiological knowledge needed to perform full body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to understand the system setup, quality control and calibration; and to learn about the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Lung function technologist, Nurse, Paediatrician, Physiologist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Jellien Makonga-Braaksma (Woudenberg, Netherlands)

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration, quality control and system settings</td>
<td>235</td>
</tr>
<tr>
<td>Maureen P. Swanney (Christchurch, New Zealand)</td>
<td>236</td>
</tr>
<tr>
<td>Technical aspects of body plethysmography</td>
<td>237</td>
</tr>
<tr>
<td>Kevin De Soomer (Burcht, Belgium)</td>
<td></td>
</tr>
<tr>
<td>Standardisation of test performance</td>
<td>238</td>
</tr>
<tr>
<td>Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)</td>
<td>446</td>
</tr>
<tr>
<td>Reporting and interpretation of case studies</td>
<td>239</td>
</tr>
<tr>
<td>Gilles Garcia (Le Kremlin-Bicêtre, France)</td>
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</tr>
</tbody>
</table>

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW2 Body plethysmography FULLY BOOKED

**Aims:** Access educational materials here to help attendees gain the technical expertise and physiological knowledge needed to perform full body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to understand the system setup, quality control and calibration; and to learn about the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Lung function technologist, Nurse, Paediatrician, Physiologist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Frans H.C. De Jongh (Enschede, Netherlands)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Calibration, quality control and system settings</td>
<td>446</td>
</tr>
<tr>
<td>Felip Burgos Rincon (Barcelona, Spain)</td>
<td>447</td>
</tr>
<tr>
<td>Technical aspects of body plethysmography</td>
<td>448</td>
</tr>
<tr>
<td>Ellie Oostveen (Edegem (Antwerp), Belgium)</td>
<td></td>
</tr>
<tr>
<td>Standardisation of test performance</td>
<td>449</td>
</tr>
<tr>
<td>Aisling McGowan (Dublin, Ireland)</td>
<td></td>
</tr>
<tr>
<td>Reporting and interpretation of case studies</td>
<td>450</td>
</tr>
<tr>
<td>Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
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</tr>
</tbody>
</table>
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW3 Body plethysmography FULLY BOOKED

Aims: Access educational materials here to help attendees gain the technical expertise and physiological knowledge needed to perform full body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to understand the system setup, quality control and calibration; and to learn about the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

Disease(s): Airway diseases, Paediatric respiratory diseases
Method(s): Physiology, Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Nurse, Lung function technologist, Paediatrician, Physiologist, Student, Trainee
Chairs: Frans H.C. De Jongh (Enschede, Netherlands)

- Introduction
- Calibration, quality control and system settings
  Maureen P. Swanney (Christchurch, New Zealand)
- Technical aspects of body plethysmography
  Kevin De Soomer (Burcht, Belgium)
- Standardisation of test performance
  Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)
- Reporting and interpretation of case studies
  Gilles Garcia (Le Kremlin-Bicêtre, France)

Skills workshop: SW5 Endoscopy FULLY BOOKED

Hands-on workshop on endoscopic technologies

Aims: Access educational materials here to present and demonstrate the current and upcoming technologies in endoscopy.

Disease(s): Airway diseases, Thoracic oncology
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Surgery
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Paediatrician, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician
Chairs: Pallav L. Shah (London, United Kingdom)

- Introduction
- Endobronchial valve placement
  Momen Wahidi (Durham, United States of America)
- Paediatric bronchoscopy
  Ernst Eber (Graz, Austria)
- Cryobiopsy
  Maren Schuhmann (Heidelberg, Germany)
- Endobronchial ultrasound with transbronchial needle aspiration
  Michela Bezzi (Firenze (FI), Italy)

Skills workshop: SW6 Endoscopy

Hands-on workshop on endoscopic technologies

Aims: Access educational materials here to present and demonstrate the current and upcoming technologies in endoscopy.
Disease(s) : Airway diseases, Thoracic oncology
Method(s) : Endoscopy and interventional pulmonology, General respiratory patient care, Surgery
Tag(s) : Clinical
Target audience : Clinical researcher, Paediatrician, General practitioner, Thoracic oncologist, Adult pulmonologist/Clinician, Thoracic surgeon
Chairs : Felix J.F. Herth (Heidelberg, Germany)

**Introduction**

**Endobronchial valve placement**
Sebastian Fernandez Bussy (Santiago, Chile)

**Paediatric bronchoscopy**
Raffaella Nenna (Rome, Italy)

**Cryobiopsy**
Alexander Chen (St. Louis, United States of America)

**Endobronchial ultrasound with transbronchial needle aspiration**
Mark Krasnik (Hellerup, Denmark)

### 7.3U Session 62

**Registration for this session is additional to the congress registration fee and is €49 on site, €43 standard.**

**Professional development: PDW2 Medical writing**

**Aims** : Access educational materials here  The aim of this 90-minute workshop is to give a short overview on the art of medical writing.

Chairs : Gilbert Massard (Strasbourg, France)

09:00 Welcome
Gilbert Massard (Strasbourg, France)

09:15 Why should we publish? How to handle your data
Enrico Ruffini (Torino (TO), Italy)

09:35 Different types of publications and general rules
Gilbert Massard (Strasbourg, France)

10:05 The editorial cycle from submission to publication: how do I get my abstract accepted in an international conference?
Enrico Ruffini (Torino (TO), Italy)

10:25 Conclusion
Gilbert Massard (Strasbourg, France)

### 7.3U Session 88

**Registration for this session is additional to the congress registration fee and is €49 on site, €43 standard.**

**Professional development: PDW3 Leading and managing change**

**Aims** : Access educational materials here  To increase the ability of the delegates to identify the causes of resistance to change and the strategies to overcome this resistance; to utilise steps in planned change; to communicate and motivate effectively throughout change; and to engage staff members in the change process.

Method(s) : Cell and molecular biology, Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care, Imaging, Public health, Pulmonary function testing, Respiratory intensive care, Surgery, Transplantation

**Target audience** : Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs : Louellen N. Essex (Wayzata, United States of America), Gernot G.U. Rohde (Frankfurt am Main, Germany)

**Why change efforts might fail: what the research tells us**
Louellen N. Essex (Wayzata, United States of America)

**The personal response to change**
Louellen N. Essex (Wayzata, United States of America)
The planned change process: steps and guidelines
Louellen N. Essex (Wayzata, United States of America)

The leader as a role model
Louellen N. Essex (Wayzata, United States of America)

Question and answer session
Louellen N. Essex (Wayzata, United States of America)

Action planning: how to apply what has been learned
Louellen N. Essex (Wayzata, United States of America)

Professional development: PDW4 How to deal with difficult employees and co-workers
Strategies for working with direct reports and co-workers

Aims: Access educational materials here Participants will increase their ability to develop effective approaches to dealing with challenging situations, to use effective communication skills to raise concerns and to identify difficult personality types and utilise specific strategies for dealing with them.

Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Physiology  Public health  Pulmonary function testing  Respiratory intensive care  Surgery  Transplantation

Target audience: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Louellen N. Essex (Wayzata, United States of America), Nicolino Ambrosino (Livorno (LI), Italy)

What makes a situation challenging?
Louellen N. Essex (Wayzata, United States of America)

How to implement a communication approach: a step-by-step guide
Louellen N. Essex (Wayzata, United States of America)

How to manage difficult situations
Louellen N. Essex (Wayzata, United States of America)

How to use a coping technique when communication does not work
Louellen N. Essex (Wayzata, United States of America)

Summary
Louellen N. Essex (Wayzata, United States of America)

Question and answer session
Louellen N. Essex (Wayzata, United States of America)

Meet the expert: ME1 Endoscopic lung volume reduction FULLY BOOKED

Aims: Access educational materials here to present and discuss the different endoscopic lung volume reduction techniques based on the actual evidence in cases, and to analyse possible complications, limitations and contraindications.

Disease(s): Airway diseases

Method(s): Endoscopy and interventional pulmonology  Imaging  Surgery

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Nurse, Physiotherapist, Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Péter Horváth (Budapest, Hungary)

13:00  Endoscopic lung volume reduction
Felix J.F. Herth (Heidelberg, Germany)

Meet the expert: ME2 Lung microbiome: study design and standardisation FULLY BOOKED

Aims: Access educational materials here to present and discuss the different endoscopic lung volume reduction techniques based on the actual evidence in cases, and to analyse possible complications, limitations and contraindications.

Disease(s): Airway diseases

Method(s): Endoscopy and interventional pulmonology  Imaging  Surgery

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Nurse, Physiotherapist, Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Péter Horváth (Budapest, Hungary)
Aims: Access educational materials here to review the novel detection and cultivation techniques used in lung microbiome studies; and to outline and explain the obstacles and opportunities associated with lung microbiome studies, with a focus on the important and sometimes unmet need for controls, the required experimental procedures and the guidelines for the analysis.

Disease(s): Airway diseases, Respiratory infections
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Allergist, Clinical researcher, Paediatrician, Scientist (basic, translational), Student, Trainee
Chairs: Sabine Bartel (Borstel, Germany)

13:00 Lung microbiome: study design and standardisation
Debby Bogaert (Edinburgh, United Kingdom) 1537

7.3U Session 155 13:15 - 14:15

Meet the expert: ME3 Bronchoscopic evaluation of recurrent/persistent pneumonia in children

Aims: Access educational materials here to discuss the role of flexible bronchoscopy when evaluating recurrent or persistent pneumonia in children that remains otherwise unexplained by noninvasive diagnostic tests.

Disease(s): Airway diseases, Paediatric respiratory diseases
Method(s): Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care
Tag(s): Clinical
Target audience: General practitioner, Paediatrician, Patient, Student, Trainee
Chairs: Michele Ghezzi (Bergamo, Italy)

13:15 Bronchoscopic evaluation of recurrent/persistent pneumonia
Bülent Taner Karadag (Istanbul, Turkey) 1557

7.3I Session 150 13:00 - 14:00

Meet the expert: ME4 Mucus clearance techniques across respiratory care settings

Aims: Access educational materials here. To provide an update on the current expert experience and scientific evidence regarding the use of mucus clearance techniques in various respiratory care settings.

Disease(s): Respiratory critical care, Respiratory infections
Method(s): General respiratory patient care, Respiratory intensive care
Tag(s): Clinical
Target audience: Clinical researcher, Critical/Intensive care physician, Nurse, Paediatrician, Patient, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Michele Ghezzi (Bergamo, Italy)

13:00 Mucus clearance techniques across respiratory care settings
Christian Osadnik (Melbourne, Australia) 1538

7.3M Session 37 07:00 - 08:15

Challenging clinical cases: CC1 Lung transplantation

Aims: Access educational materials here. To discuss problems in the pre-transplant setting and post-transplant care based on real case reports where lung transplantation is challenging due to possible relative contraindications.

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology, Imaging, Surgery, Transplantation
Tag(s): Clinical
Target audience: Critical/Intensive care physician, Nurse, Paediatrician, Pathologist, Physiotherapist, Radiologist, Scientist (basic, translational), Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs: Federica Meloni (Pavia (PV), Italy)

A patient with cystic fibrosis and Mycobacterium abscessus infection
Christian Benden (Zürich, Switzerland) 223

A diagnosis of restrictive allograft syndrome is made - how to deal with this patient?
Jens Gottlieb (Hannover, Germany) 224
Challenging clinical cases: CC2 Broad spectrum of chronic thromboembolic pulmonary hypertension

Aims: Access educational materials here. To discuss the potential pitfalls associated with chronic thromboembolic pulmonary hypertension (CTEPH) differential diagnosis; to explain the increased complexity of the management, including the combination of the multiple therapeutical options currently available.

Disease(s): Pulmonary vascular diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, General practitioner, Student, Trainee, Thoracic surgeon

Chairs: Joanna Pepke-Zaba (Cambridge (Cambridgeshire), United Kingdom)

Not always what it seems - pitfalls on CTEPH diagnosis
Nick Kim (La Jolla, United States of America)

Combining therapeutical options in CTEPH
Eckhard Mayer (Bad Nauheim, Germany)

Primary pulmonary choriocarcinoma mimicking chronic thromboembolic pulmonary hypertension
Tomás Pulido Zamudio (México D.F, Mexico)

Chronic Thromboembolic Pulmonary Hypertension related to ICD
Margarida Baptista Duarte Barata (Lisboa, Portugal)

Treatment of Chronic Thromboembolic Pulmonary Hypertension: A new approach
Margarida Baptista Duarte Barata (Lisboa, Portugal)

Grand round: Lung cancer Grand Round

Aims: In this lung cancer Grand Round, four assembly members will challenge your knowledge in lung cancer care with their individual cases. This Grand Round will also provide you with a unique opportunity for interactive discussions with not only the case presenters but also an on-stage multidisciplinary board panel. Learn and debate about the following four hot lung cancer topics: using the full diagnostic potential of computed tomography (CT) lung cancer screening beyond the nodule; reappraising N2 disease in the era of immunotherapy and targeted therapies; controlling stage IV non-small cell lung cancer (NSCLC) with modern molecular diagnostics and systemic therapies; and tackling brain metastases and the primary tumour.

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology Endoscopy and interventional pulmonology Epidemiology General respiratory patient care Imaging Public health Pulmonary function testing Respiratory intensive care Surgery
Tag(s): Clinical
Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiotherapist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Paul E. Van Schil (Edegem (Antwerp), Belgium), Solange Peters (Lausanne, Switzerland), Matthew Evison (Manchester, United Kingdom), Annemie Snoeckx (Edegem (Antwerp), Belgium), Cécile Le Péchoux (Villejuif, France), Aurelie Fabre (Dublin, Ireland)

08:30 A benign nodule in former smoker with COPD
Margarida Afonso (Castelo Branco, Portugal)

09:00 To resect, or not to resect – the problem with difficult histology and rare tumours
Matthias Esch (Ganderkesee, Germany)

09:30 Intercalating multimodal treatment strategy in a patient with advanced pulmonary adenocarcinoma harbouring the uncommon complex EGFR mutation L833V/H835L
Armin Frille (Leipzig, Germany)

10:00 When you hear hoofbeats, look for zebras
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

Symposium: State of the art session: Airways disease update on clinical and translational studies
Aims: This session will highlight the latest developments and controversies in airways disease. Four key areas will be covered that have provided critical new observations in the past year that will help to diagnose and treat subsets of patients with asthma and chronic obstructive pulmonary disease (COPD). The new observations range from novel ways of defining the mechanisms that underpin the disease in an individual patient by using the appropriate selective biomarkers (molecular phenotyping) to how this information can shape new targeted approaches to the treatment of asthma and COPD (biological agents in airways disease). The session will also cover the role of macrolides for treating severe asthma exacerbations and what this can reveal about disease mechanisms and how we can use blood biomarkers to identify the COPD patients who could benefit from current and novel therapies. At the end of this session, delegates will have the most up-to-date, clear and practical take-home knowledge relating to the diagnosis, treatment and prevention of severe asthma and COPD.

Disease(s): Airway diseases
Method(s): Cell and molecular biology General respiratory patient care
Tag(s): Translational
Target audience: Allergist, Clinical researcher, Patient, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician
Chairs: Ildikó Horváth (Budakeszi, Hungary), Antonio Spanevello (Milan, Italy)

08:30 Molecular phenotyping of asthma comes of age
Sally Wenzel (Pittsburgh, United States of America)

09:00 Macrolides, inflammation and the lung microbiome: cause or effect?
Peter Gibson (Newcastle, Australia)

09:30 Are we really transforming asthma and COPD management with biologics?
Nicola Hanania (Houston, United States of America)

10:00 Eosinophils in COPD: do they predict drug response?
Dave Singh (Manchester, United Kingdom)
Aims: To present the findings of the EUREST-PLUS Horizon 2020 project. The aim of this project was to evaluate the impact on the European population of the recently implemented tobacco control policies in Europe. These policies include those in the Tobacco Products Directive (TPD) of the European Union and the WHO Framework Convention on Tobacco Control. The impact of these policies was assessed by a cohort study on 6,000 smokers in six European countries. This study also assessed how respiratory comorbidities influence clinicians in six European countries to provide cessation assistance. The final results of this study will be presented in this session. We will also describe the results of the 2017 Eurobarometer analysis of 26,000 adults across 28 European countries, which assessed changes in public perceptions regarding e-cigarettes, warning labels on tobacco products and smoke-free environments. This session is supported by a grant from the European Commission (Horizon 2020 HC0-6-2015; EUREST-PLUS: 681109; Vardavas).

Method(s): Epidemiology Public health

Tag(s): Translational

Target audience: General practitioner, Nurse, Paediatrician, Patient, Policy maker, Scientist (basic, translational), Student

Chairs: Charlotta Pisinger (Glostrup, Denmark), Constantine Vardavas (Athens, Greece)

08:30 The effect of respiratory comorbidities on the provision of cessation assistance in six EU countries: are clinicians doing enough? Linnea Hedman (Luleå, Sweden)

09:00 Factors that affect quit attempts in smokers in six EU countries Paraskevi Katsaounou (Athens, Greece)

09:30 The impact on tobacco product use of policies in the EU, including smoke-free legislation, warning labels and taxation Filippos T. Filippidis (London, United Kingdom)

10:00 Monitoring e-cigarette use and variables across the EU: a 2018 update Constantine Vardavas (Athens, Greece)

Symposium: Difficult paediatric lung disease

Aims: to present and discuss: (i) basic treatments for paediatric pulmonary diseases as asthma, cystic fibrosis, (ii) the pulmonary manifestations of extra-pulmonary paediatric diseases, (iii) an update on interstitial lung diseases (iv)

Disease(s): Paediatric respiratory diseases

Tag(s): Clinical

Target audience: Paediatrician, Patient, Student, Trainee, Adult pulmonologist/ Clinician

Chairs: Bart L. Rottier (Groningen, Netherlands), Alexander Möller (Zürich, Switzerland)

08:30 From early origins of adult lung disease to Asthma and COPD overlap syndrome (ACOS) Klaus F. Rabe (Grosshansdorf, Germany)

09:00 The management of children with interstitial lung disease Andrew Bush (London, United Kingdom)

09:30 Lung disease of prematurity – challenges today and tomorrow Jayesh M. Bhatt (Nottingham (Nottinghamshire), United Kingdom)

10:00 Treatment of asthma above and beyond anti IgE: an update for the clinician The use of biologicals in asthma treatment Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom)

Oral presentation: ILDs: From bench to bedside

Disease(s): Interstitial lung diseases

Method(s): Endoscopy and interventional pulmonology Imaging General respiratory patient care Cell and molecular biology Epidemiology

Chairs: Effrosyni D. Manali (Athens, Greece), Zoe Daniil (Larisa, Greece)

OA260 Late Breaking Abstract - Loss of PTEN induces alveolar epithelial cell senescence resulting in lung fibrosis via activated NF-κB Yaqiong Tian (Nanjing, China), Chuanmei Liu, Hui Li, Jinghong Dai, Jingyu Chen, Min Zhou, Hourong Cai
Late Breaking Abstract - Mesenchymal stromal cell exosomes prevent and revert experimental pulmonary fibrosis through systemic modulation of monocyte phenotypes
Nahal Mansouri (Boston, United States of America), Gareth R. Willis, Angeles Fernandez-Gonzalez, Monica Reis, S. Alex Mitsialis, Stella Kourkounas

Late Breaking Abstract - A Deep Learning Algorithm for Classifying Fibrotic Lung Disease on High Resolution Computed Tomography
Simon Walsh (London, United Kingdom), Lucio Calandriello, Mario Silva, Nicola Sverzellati

Late Breaking Abstract - Idiopathic Pulmonary Fibrosis – a worldwide review of ‘real’ life’ practice: experience from a treatment feasibility review in 41 countries
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Florin Floricel, Joelle Thonnard, Ann Fieuw, Paul Ford, Eva Santermans, Charlotte Vandenvrijn, Toby Maher

Late Breaking Abstract - Ten years experience of whole lung lavage for PAP cases in Songklanagarind hospital
Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpung

Late Breaking Abstract - Prognostic analysis of secondary pulmonary alveolar proteinosis: Inspection by one of the world’s largest data.
Haruyuki Ishii (Tokyo, Japan), Ryushi Tazawa, Takeshi Saraya, Yoshikazu Inoue, Koh Nakata

Late Breaking Abstract - Phase 1 dose escalation study of aerosolized pirfenidone in normal healthy volunteers (NHV), smokers, and IPF patients
Alan Montgomery (Seattle, United States of America), Kelly Otto, Jun Khoo, Ian Glaspole

Oral presentation: Risk stratification in treatment of pulmonary arterial hypertension

Disease(s) : Pulmonary vascular diseases
Method(s) : Cell and molecular biology Epidemiology Public health General respiratory patient care

Late Breaking Abstract - Efficacy and safety of macitentan in portopulmonary hypertension: the PORTICO trial
Olivier Sitbon (Le Kremlin-Bicêtre, France), Jaume Bosch, Emmanuelle Cottreel, Pascal De Groote, Marius M Hoeper, Michael Krowka, Nicolas Martin, Laurent Savale, Nick Kim

Risk assessment in pulmonary arterial hypertension (PAH): Insights from the GRIPHON study

Early improvements predict outcomes in pulmonary arterial hypertension
R James White (Rochester, United States of America), C Dario Vizza, Christiana Blair, Jonathan Langley, Marius M Hoeper

ESC/ERS low-risk profile achievement accurately predicts mortality in scleroderma-associated PAH
Valentina Mercurio (Napoli, Italy), Nermin Diab, Grace Pelosiun, Traci Housen-Harris, Rachel D'Amico, Todd Kolb, Stephen Mathai, Paul Hassoun

Impact of initial treatment strategy on long-term survival in pulmonary arterial hypertension (PAH)
Athénais Boucly (Le Kremlin Bicêtre, France), Laurent Savale, Jason Weatherald, David Montani, Mitja Jevnikar, Xavier Jais, Gérald Simonneau, Marc Humbert, Olivier Sitbon

Early treatment of borderline pulmonary arterial hypertension associated with systemic sclerosis: a randomized, controlled, double-blind, parallel group, proof-of-concept study
Zixuan PAN (Heidelberg, Germany), Christina A. Eichstaedt, Nicola Benjamin, Norbert Blank, Hanns-Martin Lorenz, Christoph Fiehn, Jie Song, Panagiota Xanthouli, Senaten Harutyunova, Benjamin Egenlauf, Alberto M. Marra, Christine Fischer, Ekkehard Grünig

empHAsis-10 score predicts mortality in patients with pulmonary hypertension
Stephen Wort (Hampton (Middlesex), United Kingdom), Carla Favoccia, Alexander Kempny, Laura Claire Price, Colm McCabe, Kostantinos Dimopoulos

Pirfenidone protects against pulmonary hypertension in the Sugen5416/hypoxia rat model
Paul-Benoit Poble (Besançon, France), Carole Phan, Timothée Quatremaire, Jennifer Bordenave, Raphaël Thuillet , Amélie Cumont, Alice Huertas , Peter Dorfmüller, Ly Tu, Marc Humbert, Maria-Rosa Ghigna, Christophe Guignabert
Session 48 08:30 - 10:30

Symposium: Organoids and pluripotent stem cells
Disease modelling and drug testing

Aims: to present and discuss (i) the methods by which gut and lung organoids can be cultured and their uses as disease models in translational research, (ii) the biological basis, methodological approaches and applications of Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR/Cas) gene editing, and (iii) the technical approaches targeting epigenetic mechanisms that can be used to reprogram gene expression.

Disease(s): Airway diseases, Interstitial lung diseases

Method(s): Cell and molecular biology

Tag(s): Basic science

Target audience: Clinical researcher, Paediatrician, Scientist (basic, translational), Student, Trainee

Chairs: Sabine Bartel (Borstel, Germany), Pieter S. Hiemstra (Leiden, Netherlands)

08:30 | Intestinal organoids as ex vivo models for personalised medicine in cystic fibrosis
Jeffrey M. Beekman (Utrecht, Netherlands)  

08:54 | The use of bronchospheres to study chronic lung diseases
Melanie Königshoff (Denver, United States of America)

09:18 | Genome modification with CRISPR/Cas
Patrick Harrison (Cork, Ireland)

09:42 | The potential of epigenetic editing in chronic lung disease
Marianne Rots (Groningen, Netherlands)

10:06 | Optimizing experimental research in respiratory diseases: an ERS Statement
Martin Kolb (Hamilton (ON), Canada)

Session 49 08:30 - 10:30

Symposium: Respiratory muscles at rest, during exercise and in the critically ill patient

Aims: to provide an update on the latest knowledge in the field about respiratory muscle dysfunction, evaluation and management; to discuss the potential respiratory muscle dysfunctions or adaptations in various pathological contexts; to present the respiratory muscle responses to exercise and their role in exercise limitations and symptoms; and to improve understanding of the effects of critical illness on respiratory muscle structure and function, the clinical consequences of respiratory muscle weakness and the potential therapeutic options for improving muscle function in chronic obstructive pulmonary disease (COPD).

Disease(s): Respiratory critical care, Sleep and breathing disorders

Method(s): General respiratory patient care, Imaging, Physiology, Respiratory intensive care

Tag(s): Clinical

Target audience: Clinical researcher, Critical/Intensive care physician, Nurse, Paediatrician, Physiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Samuel Vergès (Grenoble, France), Nicolino Ambrosino (Livorno (LI), Italy)

08:30 | Respiratory muscle dysfunction in COPD - update on causes and biological findings
Samuel Vergès (Grenoble, France)

09:00 | Neural respiratory drive in respiratory disease patients
Caroline Jolley (London, United Kingdom)

09:30 | The respiratory muscles in intensive care unit patients
Alexandre Demoule (Paris, France)

10:00 | Respiratory muscles/mechanics and dyspnoea in disease - what kind of rehabilitation?
Rik Gosselink (Leuven, Belgium)

Session 50 08:30 - 10:30

Oral presentation: Primary care management of respiratory conditions

Disease(s): Airway diseases, Respiratory infections

Method(s): Epidemiology, General respiratory patient care, Public health

Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Persijn Honkoop (Leiden, Netherlands)
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<th>Session 51</th>
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**7.3M**

**Oral presentation: Asthma in children and adults: long-term aspects**

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care Epidemiology Physiology Public health

**Chairs:** Giovanni Viegi (Pisa (PI), Italy), Eva Rönmark (Lulea, Sweden)

### OA292 Late Breaking Abstract - Asthma prevalence and management in adults in France in 2018: ASTHMAPOP survey
Chantal Raherison-Semjen (Pessac, France), Armine Izadifar, Maud Russier, Christine Rolland, Jean-Pierre Aubert, Rahma Sellami, Delphine Leynaud, Caroline Fabry-Vendrand, Alain Didier

### OA293 Adult asthma phenotypes identified by a cluster analysis on clinical and biological characteristics
Rachel Nadif (Villejuif, France), Mickael Febrissy, Miora AndrianjaFitamy, Nicole Le Moual, Frederic Gormand, Jocelyne Just, Isabelle Pin, Regis Matran, Valerie Siroux, Orianne Dumas, Mohamed Nadif

### OA294 Eosinophilic inflammation and lung function decline in a long-term follow-up of a large population-based asthma cohort
Helena Backman (Lulea, Sweden), Linnea Hedman, Caroline Stridsman, Sven-Arne Jansson, Thomas Sandstrom, Anne Lindberg, Bo Lundback, Eva Ronmark

### OA295 Inhaled corticosteroids and FEV1 decline in asthma: an international cohort study
Alessandro Marcon (Verona (VR), Italy), Pierpaolo Marchetti, Josep M Antó, Lucia Cazzoletti, Isa Cerveri, Angelo Corsico, Judith Garcia-Aymerich, Joachim Heinrich, David Gislason, Rain Jögi, Ane Johannessen, Bénédicte Leynaert, André Malinovschi, Isabelle Pin, Joost Weyler, Christer Janson, Simone Accordini, Deborah Jarvis

### OA296 Asthma control and decline in FEV1/FVC ratio over 10 years in adults
Simone Accordini (Verona (VR), Italy), Lucia Cazzoletti, Josep Antó, Isa Cerveri, Angelo Corsico, Judith Garcia-Aymerich, Joachim Heinrich, David Gislason, Rain Jögi, Ane Johannessen, Bénédicte Leynaert, André Malinovschi, Isabelle Pin, Laura Portas, Joost Weyler, Christer Janson, Alessandro Marcon, Deborah Jarvis
Effect of asthma on the development of obesity among adults: Results of the European Community Respiratory Health Survey (ECRHS)
Subhabrata Moitra (Barcelona, Spain), Anne-Elie Carsin, Michael Abramson, André Amaral, Josep Maria Anto, Vaia Lida Chatzi, Bertil Forsberg, Frank Gilliland, Francisco Gomez Real, Deborah Jarvis, Jeong-Lim Kim, Bénédicte Leynaert, Pavilio Piccioni, Nicole Probst-Hensch, Valerie Siroux, Stefano Guerra, Judith Garcia-Aymerich, Manolis Kogevinas

Childhood asthma affects job and education in young adults
Christian Schyllert (Vendelsö, Sweden), Martin Andersson, Anne Lindberg, Eva Rönmark, Linnea Hedman

Is “protective” effect of day care on asthma explained by selection bias?
Aino-Kaisa Rantala (Oulu, Finland), Øystein Karlstad, Maria C Magnus, Hein Stigum, Siri E Häberg, Per Nafstad, Wenche Nystad, Jouni J Jaakkola

Oral presentation: Prematurity and lung disease

Late Breaking Abstract - Protein signature stratifies severity of chronic lung disease in preterms after birth
Alida Kindt-Dunjko (Neuherberg, Germany), Kai Foerster, Andreas Flemmer, Prajakta Oak, Andreas Pomschar, Birgit Ertl-Wagner, Jan Krumsieck, Anne Hilgendorf

Azithromycin (AZM) reduces death or severe respiratory morbidity at 12 month adjusted age (AA) in Ureaplasma-positive intubated preterms.
Rose Viscardi (Baltimore, United States of America), Michael Terrin, Laurence Magder, Susan Duklerian, Natalie Davis, Ken Waites, Namasiyavam Ambalavanam, Pamela Donohue, David Kaufman, Deborah Tuttle, Jorn-Hendrik Weitkamp

The role of ASC signalling in preterm infants at risk of chronic lung disease of prematurity
David Gallacher (Cardiff (South Glamorgan), United Kingdom), Martha Triantafilou, Julian Marchesi, Kathy Trianafilou, Sailesh Kotecha

Lung mechanics, airway reactivity, and muscularization are altered in former mechanically ventilated preterm lambs
Mar Janna Dahl (Salt Lake City, United States of America), Chiara Veneroni, Anna Lavizzari, Jane Pillow, Brad Yoder, Kurt Albertine, Raaffele Dellača

Effects of sustained lung inflation (SLI) at birth on lung aeration during non-invasive resuscitation of preterm lambs
Davide Bizzotto (Milano (MI), Italy), Marjanna Dahl, Chiara Veneroni, Anna Lavizzari, Bradley Yoder, Ilaria Milesi, Kurt Albertine, Raaffele Dellača

Are lung function abnormalities associated with reduced exercise capacity in prematurely born young people?
Christopher Harris (London, United Kingdom), Alan Lunt, Janet Peacock, Anne Greenough

Assessment of lung mechanics for the prediction and evaluation of pulmonary outcome in preterm infants
Emanuela Zannin (Milano (MI), Italy), Raaffele Dellača, Roland Neumann, Sven Schulzke

The analysis of genetic polymorphisms of manganese superoxide dismutase at premature infants with bronchopulmonary dysplasia
Irina Kirshina (Omsk, Russian Federation), Elena Pavlinova, Olga Savchenko, Natalya Vlasenko, Ekaterina Karpeta

Oral presentation: Evolving approaches to differential diagnosis

Late Breaking Abstract - Detection of small airway obstruction patterns in forced oscillometry (FO) and spirometry using artificial neural networks
Tong Xu (Toronto, Canada), Hojat Salehinejad, Qian Huang, Elizabeth Cho, Shahrokh Valae, Chung-Wai Chow

Is a screening spirometry a good screening tool?
Daniel Schuermans (Bruxelles, Belgium), Sven Verschaeghen, Geert Celis, Eef Vanderhelst

Pilot project to provide spirometry inreach sessions to hostels/homeless shelters in Tower Hamlets, London
Claire Davey (London, United Kingdom), Rasheda Choudhury, Maryam Mohammed, Jane Simpson
OA311 Factors affecting lung function in adult cystic fibrosis patients after lung transplantation.
Elena Amelina (Moscow, Russian Federation), Alexander Cherniak, Natalia Karchevskaya, Stanislav Krasovsky, Evgeny Tarabrin, Zhanna Naumenko, Sergey Golovinskiy, Galina Neklyudova, Marina Kevorkova, Taimyrzall Kaglov, Tatiana Pashkova, Nikolay Nechaev, Nadezhda Guseva, Alexander Chuchalin

OA312 Lung Clearance Index (LCI) in children = 12 years old with Cystic Fibrosis (CF) taking ORKAMBI at University Hospital Limerick (UHL)
Magdalena Mulligan (Limerick, Ireland), Rebecca White, Louise Collins, Barry Linnane

OA313 Double gas transfer factors (TLNO/CO) in supine position discriminate congenital heart diseases from healthy adults.
Stefan Matecki (Montpellier, France), Pascal Amedio, Jonathan Mane, Farez Gouzi, Nam Ledong, Arnaud Bourdin, Maurice Hayot, Bruno Degano, Sophie Guillaumont, Gregoire Delavilleon

OA314 Investigating Exercise Induced Laryngeal Obstruction (EILO): A review of a specialist paediatric service
Jane Kirkby (Sheffield, United Kingdom), Nicki Barker, Laurie Smith, Ravi Thevasagayam, Kelechi Ugonna

OA315 Assessment of repeatability of eNose (SpiroNose) measurements in healthy and asthmatic subjects
Rianne de Vries (Amsterdam, Netherlands), J. W. F. Dagelet, U Frey, R. Lutter, A. H. Maitland-Van Der Zee, P. J. Sterk, A Sinha

7.3L Session 54 08:30 - 10:30
Poster discussion: Epidemiology and prognostication of critically-ill patients

PA316 Acute Respiratory Distress Syndrome in Mechanically-Ventilated Patients with Community-Acquired Pneumonia
Miquel Ferrer Monreal (Barcelona, Spain), Catia Cilloniz, Adamanthia Liapikou, Carolina Garcia-Vidal, Albert Gabarrus, Adrian Ceccato, Jorge Puig De La Bellacasa, Francesco Blasi, Antoni Torres

PA317 Changes in characteristics and long-term mortality of intensive care unit admissions from 2003 to 2010: a study from nationwide population-based cohort
Do Jun Kim (Chuncheon, Republic of Korea), Jeongwon Heo, Jae Hoon Jeong, Young Joo Kim, Seung-Joon Lee, Woo Jin Kim, Seon-Sook Han, Yoonki Hong

PA318 Prospective comparative study on etiologic diagnosis of ventilator-associated pneumonia
Thiulo Marquez Cunha (Uberlandia (MG), Brazil), Rodrigo Miquelanti Melo, Maria Aparecida Gonçalves Gomes, Vinicius Pafume Oliveira, Debora Lara Zuza Scheucher, Robinson Sabino Silva, Luiz Ricardo Goulart Filho, Denise Von Dolinger Brito

PA319 Compared survivors with nonsurvivors in oldest-old patients with acute respiratory distress syndrome: a prospective observational cohort study
Kuo-Chin Kao (Taipei, Taiwan), Chih-Hao Chang , Chiu-Hua Wang, Han-Chung Hu, Chung-Chi Huang, Li-Fu Li, Huang-pin Wu, Cheng-Ta Yang

PA320 Chronic critical illness in patients with acute respiratory failure admitted to a respiratory intensive care unit
Alessandro Marchion (Modena (MO), Italy), Roberto Tonelli, Riccardo Fantini, Luca Tabbi, Antonia Sdanganelli, Ivana Castaniere, Alessia Verduri, Martina Garofalo, Stefania Cerri, Valentina Ruggieri, Enrico Clini

PA321 Atrial arrhythmias after lung transplantation: prevalence, risk factors, management and outcome
Sara Isabel Campos Silva (Paços de Ferreira, Portugal), Nidia Caires, Ricardo Dias Coelho, Ana Sofia Santos, Raquel Rosa, Telma Lopes, Sara Alfarroba, Paulo Calvinho, Luísa Semedo, João Cardoso, José Fragata

PA322 The spontaneous breathing trial has no role to predict the ability of spontaneous breathing in patients with prolonged weaning
Friederike Sophie Magnet (Köln, Germany), Eva Heilf, Sophie E. Huttmann, Jens Callegari, Sara B. Schwarz, Jan H. Storre, Wolfram Windisch

PA323 Incidence and risk factors for venous thrombosis after venovenous extracorporeal membrane oxygenation in adult patients with acute respiratory failure
Christoph Fisser (Regensburg, Germany), Christoph Reichenbach, Thomas Mueller, Maximilian Malfertheiner, Alois Philipp, Maik Foltan, Dirk Lunz, Florian Zeman, Matthias Lubnow

PA324 Which respiratory and non–respiratory factors contribute to outcome in critically ill patients with invasive ventilation?
Fabienne Simonis (Amsterdam, Netherlands), Marcelo Gama De Abreu, Paolo Pelosi, Marcus Schultz, Ary Serpa Neto
Terminal 7 Session 55 08:30 - 10:30

Oral presentation: Paediatric asthma: prevention, diagnosis and treatment

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Public health  General respiratory patient care

**Chairs:** Erol Gaillard (Leicester (Leicestershire), United Kingdom), Fabio Midulla (Roma (RM), Italy)

**OA334** Late Breaking Abstract - Effects of OM-85 BV on the murine gut microbiome
Linnea honeker (Vail, United States of America), donata vercelli, fernando martinez

**OA335** Prenatal exposure to negative life events and job stress and asthma risk
Vivi Schlüsen (Arhus C, Denmark), Xiaoqin Liu, Kathrine Madsen, Camilla Sejbæk, henrik kolstad, jørn olsen, karin hougaard, kirsten hansen, niklas andersson, reiner rugulies

**OA336** Breast-milk microbes and risk of asthma by 6 years of age
Inka Hämynen (Kaupio, Finland), Martin Täubel, Anne Karvonen, Laura Orivuori, Outi Vaarala, Anne Hyvärinen, Josef Riedler, Caroline Roduit, Roger Lauener, Jean-Charles Dalphin, Erika Von Mutius, Sami Remes, Juha Pekkanen, Pirkka V. Kirjavainen

**OA337** Microbiota as in farm homes protect children from asthma
Pirkka Kirjavainen (Kaupio, Finland), Anne Karvonen, Rachel Adams, Martin Täubel, Georg Loss, Markus Ege, Anne Hyvärinen, Rob Knight, Dick Heederik, Erika Von Mutius, Juha Pekkanen

**OA338** Feasibility and diagnostic accuracy of an electronic nose in children with asthma and cystic fibrosis
Michiel Bannier (Maastricht, Netherlands), Kim Van De Kant, Quirijn Jobris, edward Dompeling

**OA339** Age and height trajectories of exhaled nitric oxide in schoolchildren
Sandrah Eckel (Los Angeles, United States of America), Yue Zhang, Erika Garcia, Patrick Muchmore, edward Rappaport, kiros Berhane, william linn, noa molshatski, rima habre, frank Gilliland

**OA340** Valved holding chambers vary considerably in drug delivery efficacy
Peter Csonka (Vuorentausta, Finland), Lauri Lehtimaki
Humidified and standard oxygen therapy in acute severe asthma in children: a randomised controlled pilot trial (HUMOX)

Paul McNamara (Liverpool (Merseyside), United Kingdom), Vanessa Compton, Matthew Peak, Julie Grice, Janet Clark, Liz Lee, Caroline Burchett, Ravi Jayaram, Ian Kilroy, David Lacy, Tracy Moitt, Egle Saviciute, Dannii Clayton, Steven Lane, Ashley Jones

**Poster discussion:** The global impact of bronchiectasis and nontuberculous mycobacteria (NTM)

**Disease(s):** Respiratory infections, Airway diseases, Respiratory critical care, Respiratory infections

**Method(s):** Cell and molecular biology, Imaging, Respiratory intensive care, General respiratory patient care, Epidemiology

**Chairs:** Michael Loebinger (London, United Kingdom), Eva Van Braeckel (Ghent, Belgium)

**PA342** Validation of the Nontuberculous Mycobacteria (NTM) Module in NTM Lung Disease
Alexandra Quitter (Coral Gables, United States of America), Chinmay Deshpande, Engels Chou, Ruchit Shah, Srimoyee Bose, Kathryn Lasch, Quan Zhang

**PA343** In vitro susceptibility to rifampin and ethambutol and treatment outcome in MAC lung disease
Byoung Soo Kwon (Seoul, Republic of Korea), Yong Pil Chong, Mi-Na Kim, Heungsup Sung, Younsuck Koh, Woo-Sung Kim, Jin-Woo Song, Yeon-Mok Oh, Sang-Doo Lee, Sei Won Lee, Jae-Seung Lee, Chae-Man Lim, Chang-Min Choi, Jin-Won Huh, Sang-Bum Hong, Sojung Park, Tae Sun Shin, Kyung-Wook Jo

**PA344** The clinical significance of Mycobacterium triplex isolates in Queensland, Australia
Justine Gibson (Brisbane (QLD), Australia), Tim Baird, Sushil Pandy, Carla Tolson, Chris Coulter, Geoffrey Eather, Rachel Thomson

**PA345** Bronchiectasis in Oceania – survival and health care in Indigenous and non-Indigenous populations
Graeme Maguire (Broome (WA), Australia), Sean Blackall, Jai Beom Hong, Paul King, Conroy Wong, Lloyd Einsiedel, Marc Rémond, Cindy Woods

**PA346** Population based survey on the NTM pulmonary disease treatment in Japan
Kiyohiko Izumi (Kiyose (Tokyo), Japan), Kozo Morimoto, Kazuhiro Uchimura, Manabu Ato, Satoshi Mitarai, Naoki Hasegawa

**PA347** Actual treatment practices of pulmonary nontuberculous mycobacteriosis analysed from national insurance claim data in Japan
Kozo Morimoto (Tokyo, Japan), Kiyohiko Izumi, Manabu Ato, Satoshi Mitarai, Naoki Hasegawa

**PA348** Characteristics of patients with pulmonary non-tuberculous Mycobacterial infection in bronchiectasis: Data from the EMBARC registry
Michael Loebinger (London, United Kingdom), Michael Loebinger, Felix Ringshausen, Charles Haworth, Pieter Goeminne, Marlene Murriss, Montse Vendrell, Rosario Menendez, Robert Wilson, Wim Boersma, Adam Hill, Antoni Torres, Katerina Dimakou, Tobias Welte, Anthony De Soyza, Francesco Blasi, Stuart Elborn, Eva Polverino, Stefano Aliberti, James D. Chalmers

**PA349** Effects of a home programme of airway clearance techniques on adventitious respiratory sounds in patients with bronchiectasis: a randomised controlled trial
Beatriz Herrero Cortina (Zaragoza, Spain), Oscar Membrado-Lope, Marta San Miguel-Pagola, Marina Franc-Gallego, Juan Antonio Saez-Perez, Eva Polverino

**PA350** Rhinosinusitis is associated with increased symptoms and more frequent exacerbations among patients with bronchiectasis- data from the EMBARC registry
Michal Shteinberg (Haifa, Israel), Pieter Goeminne, Michael Loebinger, Charles Haworth, Felix Ringshausen, Katerina Dimakou, Marlene Murriss, Montse Vendrell, Rosario Menendez, Robert Wilson, Adam Hill, Antoni Torres, Tobias Welte, Francesco Blasi, Anthony De Soyza, Stuart Elborn, Eva Polverino, James Chalmers, Stefano Aliberti

**PA351** AMPK is inhibited in severe bronchiectasis and may relate to reduced ciliary beat frequency
Yan Hui Giam (Dundee (Angus), United Kingdom), Amelia Shoemark, Holly Keir, Martina Contarini, Diane Cassidy, Simon Finch, James Chalmers

**PA352** Comparison of bronchiectasis cohorts from tertiary centres in Sydney, Milan and Dundee reveal differences in severity and patterns of care
Simone Visser (Sydney (NSW), Australia), Enna Stroil-Salama, Madeleine Peters, Di Lui, Stefano Aliberti, James Chalmers, Lucy Morgan

**PA353** Quality of life in patients with non-cystic fibrosis bronchiectasis based on radiologic findings
Burcu Arpinar Yigitbas (Istanbul, Turkey), Celal Satıcı, Elif Yelda Niksarlioğlu, Mustafa Asım Demirkol, Gizem Köybaşı, Ayşe Filiz Koşar
## Chest Physiotherapy in patients with Bronchiectasis – what is the current practice in Europe?
Maria Aurora Pinto Mendes (Penafiel, Portugal), Simon Finch, Amelia Shoemark, Eva Polverino, Francesco Blasi, Felix C Ringshausen, Anthony De Soyuza, Montserrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles Haworth, Marlene Murriss, Katerina Dimakou, Adam T Hill, Michael R Loebinger, Rosario Menéndez, Anthony Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James Chalmers

## Impact of six-minute walk test on health-related quality of life in pulmonary Mycobacterium avium complex disease
Kazuma Yagi (Tokyo, Japan), Takeanori Asakura, Ho Namkong, Shoji Suzuki, Takahiro Asami, Satoshi Okamori, Tetsuya Kusumoto, Yohei Funatsu, Hirofumi Kamata, Tomoyasu Nishimura, Makoto Ishii, Tomoko Betsuyaku, Naoki Hasegawa

## Validity of COPD diagnosis in Bronchiectasis patients: data from the EMBARC registry
Maria Aurora Pinto Mendes (Penafiel, Portugal), Simon Finch, Amelia Shoemark, Eva Polverino, Francesco Blasi, Felix C Ringshausen, Anthony De Soyuza, Montserrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles Haworth, Marlene Murriss, Katerina Dimakou, Adam T Hill, Michael R Loebinger, Rosario Menéndez, Antonio Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James Chalmers

## Open-label extension (OLE) of ORBIT-3 and ORBIT-4 trials of ARD-3150 in non-cystic fibrosis bronchiectasis (NCFB)
Anne O'Donnell (Washington, United States of America), Igor Gonda, David Cipolla, Juergen Froehlich, Angela Davis, Charles Haworth

## Neutrophil elastase increases ciliary beat frequency ex-vivo: implications for the bronchiectasis airway
Martina Contarini (Gorgonzola (MI), Italy), Yan Hui Giam, Holly Keir, Amelia Shoemark, James Chalmers

## Primary ciliary dyskinesia in adults with bronchiectasis: Data from the Embarc registry
Amelia Shoemark (Dundee (Angus), United Kingdom), Eva Polverino, Francesco Blasi, Felix C Ringshausen, Anthony De Soyuza, Montserrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles S Haworth, Marlene Murriss, Katerina Dimakou, Adam T Hill, Michael R Loebinger, Rosario Menéndez, Antoni Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James D Chalmers

## Poster discussion: Occupational and environmental lung diseases: asthma and the airways

### Disease(s):
- **Airway diseases**
- **Interstitial lung diseases**

### Method(s):
- General respiratory patient care
- Cell and molecular biology
- Epidemiology
- Physiology
- Public health

### Chairs:
- Benoit Nemery (Leuven, Belgium), Christopher Barber (Sheffield (South Yorkshire), United Kingdom)

### PA360 Late Breaking Abstract - Do inhaled carbonaceous particles translocate from the lung to the placenta?
Norrice Liu (London, United Kingdom), Lisa Miyashita, Graham Mcphail, Shakila Thangaratinam, Jonathan Grigg

### PA361 Identification of significant late reactions from smaller exposures in specific inhalation challenge testing
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Alastair Robertson, Gareth Walters

### PA362 Airway symptoms and findings in patients exposed to moisture damage at work
Sarkku Vilpas (Tampere, Finland), Lauri Lehtimäki, Eliina Kankare, Leenamaija Kleemola, Jura Numminen, Pia Nynäs, Antti Tikkakoski, Jukka Iitti, Jussi Kärjäläinen

### PA363 Predictors of patterns of response following specific inhalation challenge testing with low molecular weight agents.
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Alastair Robertson, Gareth Walters

### PA364 Effect of exposure to alpha-quartz on lung function in outdoor blasting crews
Marian Ulvestad (Oslo, Norway), Dag Gunnar Ellingsen, Nils Petter Skaugset, May Brit Lund, Bente Ulvestad

### PA365 Is 'take-out' allergen detectable in laboratory animal facilities?
Johanna Feary (London, United Kingdom), Jennifer Canizales, Caitlin Fitzgerald, Harry Ward, James Potts, Paul Cullinan, Meinir Jones

### PA366 A review of cleaning agent-related occupational asthma from Birmingham, UK (2000-16)
Vicky Moore (Birmingham (West Midlands), United Kingdom), Gareth Walters, Sherwood Burge, Alastair Robertson

### PA367 Prevalence and risk factors of COPD in dairy farmers: the AIRBAg study
Stéphane Jouneau (Rennes Cedex, France), Solenne Marette, Ange-Marie Robert, Thomas Gouyet, Stéphanie Guillot, Anthony Chapron, Carole Mailloux, Benoît Desres, Jean-François Viel

### PA368 Specific inhalation challenge causes minor changes in nasal proteome of work-related asthma patients
Hille Suojalehto (Helsinki, Finland), Irmeli Lindström, Anne Puustinen

### PA369 Specific IgE sensitization and asthma in French farmers
Sebastien Clerc (Paris, France), Denis Caillaud, Cara Maesano, Joana Vitte, Isabella Annesi-Maesano
7.2C  Session 58  08:30 - 10:30

Poster discussion: Evaluation of COPD and various diseases by different imaging modalities

**Disease(s):** Airway diseases, Thoracic oncology, Respiratory infections, Interstitial lung diseases, Pulmonary vascular diseases, Respiratory critical care, Respiratory infections, Patient care

**Method(s):** Epidemiology, Endoscopy and interventional pulmonology, Physiology, Respiratory intensive care, General respiratory patient care, Imaging

**Chairs:** Reinhard Kubale (Pirmasens, Germany), El bieta Magdalena Grabczak (Warszawa, Poland)

- **PA377**  A long distance chest ultrasound mentorship project - the initial evaluation
  Diana Veronica Turcu (Iasi, Romania), Oana Melinte, Oana Miron, Radu Crisan, Traian Mihaescu, Tudor P. Toma

- **PA378**  Clinical Use and Barriers of Thoracic Ultrasound: A Survey of Italian Pulmonologists
  Alessandro Zanforlin (Bolzano (BZ), Italy), Francesco Tursi, Giampietro Marchetti, Giulia Pellegrino, Beatrice Vigo, Andrea Smargiassi, Riccardo Inchingolo, Stefano Centanni, Stefano Gasparini, Francesco Blasi, Gino Soldati, Giuseppe Francesco Sferrazza Papa

- **PA379**  Utility of bedside ultrasound chest in patients admitted into critical care unit
  Anil Kumar Gandham (Rajam, Srikakulam (Andhra Pradesh), India), A.R. Gayathri

- **PA380**  Diaphragmatic assessment in COPD patients by different modalities
  Gehan Ali (Shibin Elkom, Egypt)

- **PA381**  Assessment of ventilator-induced diaphragmatic dysfunction in COPD patients using transthoracic ultrasonography
  Ali Abdelazeeem Hasan (Assiut, Egypt), Sherien Farthgaly

- **PA382**  Role of ultrasound in the decision algorithm for pneumothorax – a pilot study
  Rita Boaventura (Porto, Portugal), Leonor Meira, David Coelho, António Morais, Hélder Novais E Bastos

- **PA383**  Hyperpolarised 129Xenon MRI can identify ventilation abnormalities in patients suffering with primary spontaneous pneumothorax
  Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Mitch Chen, Tahreema Matin, Najib Rahman, Fergus Gleeson

- **PA384**  Left atrial diameter of >49.5 mm indicates left main bronchus stenosis
  Masataka Matsumoto (Miki, Japan), Kaori Kawase, Kazumi Kaneshiro, Kiyonobu Takatsuki

- **PA385**  How to diagnose and quantify bronchiectasis for clinical studies using chest imaging
  Jennifer Jane Meerburg (Rotterdam, Netherlands), Geerten Veerman, Stefano Aliberti, Harm Tiddens

- **PA386**  Contribution of chest computed tomography in post infectious bronchiolitis obliterans in children
  Samia Hamouda (Tunis, Tunisia), Ines Trabelsi, Fatma Khalsi, Imen Belhadj, Manel Ben Romdhane, Faten Tinsa, Khadija Boussetta
Comparison of 1H MRI and 3He MRI ventilation images in patients with cystic fibrosis and patients with lung cancer
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Andreas Voskrebenzev, Alberto Biancardi, Laurie Smith, Bilal Tahir, Jim Wild, Jens Vogel-Claussen

Is echogenic swirling seen on ultrasound predictive of pleurodesis outcome?
Maged Hassan (Alexandria, Egypt), Rachel M Mercer, Rachelle Asciak, Nicky Russel, Rob J Hallifax, John Wrightson, Najib M Rahman

Agreement between chest ultrasonography and chest X-ray in patients who have undergone thoracic surgery
Andrea Smargiassi (Roma (RM), Italy), Riccardo Inchingolo, Marco Chiappetta, Leonardo Petracca Ciavarella, Stefania Lopatriello, Giuseppe Maria Corbo, Stefano Margaritella, Luca Richeldi

Investigation of relationships between inflammation and brain disease in COPD
Mohanni-Preet Kaur Bajaj (London, United Kingdom), Sachelle Ruickbie, Daniel Burrage, Catherine Spilling, James Dodd, Abhiram Prasad, Paul Jones, Emma Baker, Thomas Barrick

Lung ultrasound as useful tool to diagnose pulmonary atelectasis in children affected by neuromuscular disease
Nicola Ullmann (Roma (RM), Italy), Maria Luisa D’Andrea, Maria Beatrice Chiarini, Paolo Tomà, Claudio Cherchi, Martino Pavone, Virginia Mirra, Renato Cutrera

CT predictors of pulmonary hypertension in patients with severe COPD
Daniela Gompelmann (Heidelberg, Germany), Miranda Kirby, Konstantina Kontogianni, Benjamin Egenlauf, Ekkehard Gruenig, Claus-Peter Heussel, Ralf Eberhardt, Felix Jf Herth

The impact of CT dose reduction on inspiratory and expiratory lung density measures
Jessica C. Sieren (Iowa City, United States of America), Eric A. Hoffman

Pulmonary perfusion heterogeneity is reduced with hyperoxia in emphysema-susceptible smokers
Nicola Ullmann (Roma (RM), Italy), Maria Luisa D’Andrea, Maria Beatrice Chiarini, Paolo Tomà, Claudio Cherchi, Martino Pavone, Virginia Mirra, Renato Cutrera

Conventional aspiration vs biopsy needle for endosonography: the International Sarcoidosis Assessment (ISA) RCT
Laurence M.M.J. Crombag (Huizen, Netherlands), K Mooij, A Szubowski, Kg Tournoy, R Trisolini, J Sun, M Oki, M Ninaber, Ja Stigt, D Steinfeld, Br Jennings, M Liberman, S Bilaceroglu, Jt Annema

EBUS vs EUS-B for diagnosing sarcoidosis: the International Sarcoidosis Assessment (ISA) RCT
Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laurence Crombag, Artur Slubowski, Kurt Tournoy, Rocco Trisolini, Jiayuan Sun, Masahide Oki, Maarten Ninaber, Jos Stigt, Daniel Steinfeld, Barton Jennings, Moische Liberman, Semra Bilaceroglu, Lizzy Wijmans, Peter Bonta, Jouke Annema

Endobronchial ultrasound for the diagnosis of centrally located intrapulmonary tumors: a systematic review and meta-analysis
Jolanda C. Kuijvenhoven (Leeuwarden, Netherlands), Fausto Leoncini, Laurence Crombag, Rene Spijkjer, Peter Bonta, Daniel Korevaar, Jouke Annema

EUS-B-FNA for the diagnosis of centrally located lung lesions.
Ida Skovgaard Christiansen (København N, Denmark), Jolanda Corina Kuijvenhoven, Uffe Bodtger, Therese Maria Henriette Nauer, Khalqi Ahmad, Jatinder Singhshidhu, Rafi Nessar, Goran Nadir Salih, Asbjorn Hoegholm, Jouke Tabe Annema, Paul Frost Clementsens

Accuracy and safety of EUS-B-FNA in the diagnosis of lung parenchymal lesions
Michele Mondoni (Cremona (CR), Italy), Francesco Varone, Paolo Carlucci, Leonello Fuso, Claudia Sanfilippo, Daniele Magnini, Mirta Cavallini, Luca Richeldi, Stefano Centanni, Giovanni Sotgiu

Integration of the left adrenal into EUS-B - a prospective study.
Stephan Eisenmann (Halle, Germany), Jonathan Becker, Jane Winantea, Rüdiger Karpf-Wissel, Faustina Funke, Elena Stenzel, Kaid Darwiche

Safety and feasibility of the use of a long EBUS scope in the diagnosis of mediastinal lymphadenopathy and left adrenal gland enlargement - a pilot study
Maren Schuhmann (Heidelberg, Germany), Felix Herth, Ralf Eberhardt

Poster discussion: EUS-B and EBUS: optimal utilisation of the EBUS scope
Disease(s): Thoracic oncology, Interstitial lung diseases, Respiratory infections
Method(s): Endoscopy and interventional pulmonology, Surgery
Chairs: Jouke T. Annema (Amsterdam, Netherlands), Christophe Dooms (Leuven, Belgium)
Comparative efficacy of EBUS-TBNA versus EUS-b-FNA in unselected sarcoidosis patients
Ilya Sivokozov (Moscow, Russian Federation), Oksana Yun, Dmitriy Sazonov, Dmitriy Dedushkin, Natalya Karpina, Galina Evgushenko, Yuri Berezovsky

Awake endoscopic (esophageal) ultrasound using the endobronchial scope (EUS-B) for patients with high risk for sedation
Omar Hakrush (Nazareth-IlBit, Israel), johad khoury, Yochai Adir, Sonia Schneer, Amir Abramovich

The pulmonologist in the oesophagus: new opportunities
Rafi Nessaer (Taastrup, Denmark), Therese Maria Henriette Naur, Ida Skovgaard Christiansen, Khaliq Ahmad, Jatinder Singh Sidhu, Goran Nadir Salih, Asbjorn Hoegholm, Peter Iwan Bonta, Jouke Tabe Annema, Uffe Bodtger, Paul Frost Clementsen

Guideline adherence and quality of (minimal) invasive mediastinal staging of NSCLC
Jelle Bousena (Breda, Netherlands), Ilse Huijbregts, Martijn Van Dorp, Fieke Hoeijmakers, Nicole Barlo, Niels Claessens, Anne-Marie Dิinghamens, Wessel Hanselaar, Robert Kortekaas, Jan-Willem Lardenvoje, Jos Maessen, Hermien Schreurs, Maggy Youssef-El Soud, Jouke Annema, Frank Van Den Broek

Influence of pathologist experience on EBUS-TBNA overall accuracy: A historical cohort study
Luis Fernando Giraldo-Cadavid (Bogota DC, Colombia), Maria Teresa Perez-Warnisher, Iker Fernandez-Navamuel, Javier Alfayate, Alba Naya, Pilar Carballosa, Andres Gimenez, Elena Cabezas, Francisco Martinez-Munoz, Susana Alvarez, Javier Flandes

Unusual case of bilateral hemotympanum after endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA)
Usman Maqsood (Walsall, United Kingdom), Muhammad Imran Hasan, Mohammed Munavvar, Muhammad Badar Ganaie

Significance of the gross visual appearance of aspirates obtained with endobronchial ultrasound guided transbronchial needle aspiration (EBUS-TBNA)
Sahajal Dhoooria (Chandigarh (Uttar Pradesh), India), Nalini Gupta, Ritesh Agarwal, Ashutosh Aggarwal

Diagnostic yield of N3 hilar staging by endobronchial ultrasonography (EBUS) in lung cancer.
Jaume Bordas Martinez (barcelona, Spain), Jose Luis Vercher Conejero, Guillermo Rodriguez González, Cristina Martin Cabeza, Isabel Cachon Suarez, Noelia Cubero De Frutos, Rosa-Maria Lopez Lisbona, Marta Diez Ferrer, Cristina Gamez Cenzoano, Roger Llatjos Sanuy, Jordi Dorca Sargatal, Antoni Rosell Gratacos

Lymphnode short-axis diameter (SAD) as a predictor of adequacy in EBUS-TBNA: size matters
Fausto Leoncini (Montespertoli (FI), Italy), Valentina Luzzi, Stefano Orsi, Michela Bezzi

A comparison of PET-CT and complete endosonographic nodal staging with use of 25 gauge needles in small nodes in NSCLC patients
Maciej Gnass (Myślenice, Poland), Stanislaw Orzechowski, Joanna Sola, Piotr Kocoon, Lucyna Rudnicka, Juliusz Pankowski, Pawel Gwoźdż, Artur Szulbowski

SERUM OSMOLARITY IS ASSOCIATED WITH SEVERITY OF OBSTRUCTIVE SLEEP APNEA SYNDROME: A NOVEL RISK FACTOR FOR CARDIOVASCULAR DISEASE
Astye Kanbay (Kayseri, Turkey), Mustafa Çalışkan, Halil Ibrahim Yakar, Sebahat Altisar Ecder

Ventricular structural changes in patients with sleep-disordered breathing (SDB) and myocardial infarction
Elvira Bondia Real (Valencia, Spain), ELVIRA BONDIA (VALENCIA, Spain), Jaime Signes-Costa Miñana, Jose Gavara, Santos Ferrer, Vicente Bodi, Paolo Racugno, Maria P. Lopez-Lereu, Jose Vicente Momeneu, Maria Pilar Bañuls, Emilio Servera

Thomas Gaisl (Zürich, Switzerland), Protazy Rejmer, Simon Stämpfli, Felix Tanner, Malcolm Kohler

The Effect of CPAP Therapy in Sleep Apnea Patients on Single Parameters of the Nocturnal Pulse Wave Analysis
Simon Dominik Herkenrath (Köl, Germany), Marcel Treml, Ludger Grote, Jan Hedner, Dirk Sommermeyer, Joachim H. Ficker, Georg Nilius, Winfried J. Randerath
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<th>PA417</th>
<th>Carbamylated erythropoietin prevents cardio-respiratory dysfunctions induced by chronic intermittent hypoxia</th>
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<td>nicolas voituron (Bobigny, France), David C. Andrade, Camilo Toledo, Jean-Paul Richalet, Rodrigo Del Rio</td>
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<td>PA418</td>
<td>Does the required pressure difference between REM and NREM sleep during titration polysomnography impact on the severity of complex sleep apnoea?</td>
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<td>Hideaki Nakayama (Tokyo, Japan), Mina Kobayashi, Mariko Yanagihara, Satoru Tsuiki, Yuichi Inoue</td>
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<td>PA419</td>
<td>Oscillating inspiratory flow limitation during Cheyne-Stokes hyperpnoea</td>
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<td>Neil Skjodt (Lethbridge (AB), Canada), Vidisha Paahwa, Ronald S Platt</td>
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<td>PA420</td>
<td>&quot;Super&quot; obstructive sleep apnea: differences with the rest of severe cases</td>
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<td>Jose Rafael Teran Tineo (Madrid, Spain), Daniel Lopez-Padilla, Zichen Ji, Virginia Gallo González, Milagros Llanos Flores, Soledad Lopez Martin, Elena R. Jimeno, Luis Puente Maesta, Elena Ojeda Castillejo</td>
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<td>PA421</td>
<td>Obesity hypoventilation syndrome and neurocognitive function - impact of positive airway pressure therapy</td>
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<td>Sheila Sivam (Camperdown (NSW), Australia), Keith Wong, Amanda Piper, David Wang, Brendon Yee, Ronald Grunstein</td>
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<tr>
<td>PA422</td>
<td>Hypopnoea-to-apnoea ratio relates to reduced lung volumes and profound respiratory failure in subjects with obesity-hypoventilation syndrome</td>
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<td>Ivana Paranicova (Košice, Slovakia), Pavol Pobeha, Ivana Trojova, Ruzena Tkacova, Pavol Joppa</td>
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<tr>
<td>PA423</td>
<td>SLEEP DISORDERED BREATHING AND RELATIONSHIP WITH PM10</td>
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<td>Ornella Salimbene (Buccino, Italy), Ivano Salimbene, Francesco Pilla, Maria Ragosta, Elena Comino</td>
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<td>PA424</td>
<td>Systematic delay in the time to sleep apnea diagnosis in women - data from the Swedish National Sleep Apnea Registry</td>
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<td>Ludger Grote (Göteborg, Sweden), Constanze Wartenberg, Stefan Franzen, Jan Hedner</td>
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<td>PA425</td>
<td>Determinants of daytime sleepiness in mild obstructive sleep apnoea syndrome. Data from the European Sleep Apnoea Database (ESADA) cohort study.</td>
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<td>PA426</td>
<td>Non-apnea sleep disorder increases the risk of incident heart failure - a nationwide population-based cohort study</td>
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<td>I-Duo Wang (Taipei, Taiwan), Chung-Kan Peng</td>
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<td>PA427</td>
<td>Association between sleep-disordered breathing and breast cancer. A pilot study.</td>
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<td>Francisco Campos-Rodriguez (Sevilla, Spain), Miguel A. Martinez-Garcia, Antonio Cruz-Medina, Maria Rodriguez-De-La-Borbolla, Adrian Sanchez-Vegas, MarI A. Selma-Ferr2, Francisco Ripoll, Carmen V. Almeida-Gonzalez</td>
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<td>PA428</td>
<td>Chronic intermittent hypoxia exacerbates lung fibrosis in bleomycin-induced lung injury mouse model</td>
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<td>Hyeon Hui Kang (Seoul, Republic of Korea), In Kyoung Kim, Sang Haak Lee</td>
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<td>PA429</td>
<td>Determinants of enlarged main pulmonary artery diameter in patients with scleroderma and concomitant obstructive sleep apnoea</td>
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<td>Yuksel Peker (Istanbul, Turkey), Tugce Yakut, Baran Balcan, Sait Karakurt, Haner Direskeneli, Yasemin Yalcinkaya</td>
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<td>PA430</td>
<td>CPAP related intraocular pressure increase at night in people with and without glaucoma.</td>
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<td>Dariusz Wozniak (St Ives (Cornwall), United Kingdom), Matthew Schneider, Rupert Bourne, Ian Smith</td>
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**No Room**

**Session 61**

**08:30 - 13:00**

**Game Zone: GAME ZONE - SESSION 1**

**Ultrasound**

Jayne Holme (Altrincham (Cheshire), United Kingdom)

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**Interventional bronchoscopy**

Lowie Vanfleteren (Horn, Netherlands), Julia N.S. d'Hooghe (Amsterdam, Netherlands), Cristina Avram (Manchester (Greater Manchester), United Kingdom)

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**Session 68**

**10:45 - 12:45**

**7.3A**

**Grand round: Imaging Grand Round**

**Comprehensive update on (almost) all aspects of lung imaging**

**Aims:** To promote a multidisciplinary approach to diagnosis of wide variety of lung diseases. To provide an update in the diagnosis and treatment of various lung diseases. To give a basic and differential diagnosis when facing with imaging studies.

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12.09.2018
Symposium: State of the art session: Pulmonary vascular diseases

**Aims:** To provide state of the art information on different aspects of pulmonary vascular diseases, including pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension, acute pulmonary thromboembolism and right heart function. The launch of the new Assembly 13 “Pulmonary Circulation” a few months after the 6th Pulmonary Hypertension World Symposium (Nice, France, February 2018) presents a unique opportunity for an update on pulmonary vascular diseases.

**Disease(s):** Pulmonary vascular diseases

**Method(s):** General respiratory patient care

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Student, Adult pulmonologist/Clinician

**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>10:45</td>
<td>Pulmonary arterial hypertension</td>
<td>Marc Humbert (Paris, France)</td>
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<td>11:15</td>
<td>Acute pulmonary embolism</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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<td>11:45</td>
<td>Chronic thromboembolic pulmonary hypertension</td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<td>12:15</td>
<td>Right ventricular function and pulmonary haemodynamics</td>
<td>Harm Jan Bogaard (Amsterdam, Netherlands)</td>
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Symposium: Courmand lecture: new paradigms in extracorporeal lung assistance

**Aims:** Attendees will gain new insights in the physiological mechanisms by which protective/ultra-protective ventilation and support on CO2 washout promote the outcomes of critically ill respiratory patients who are being treated with extracorporeal membrane oxygenation (ECMO) devices. Attendees will also be updated on the clinical applications of high-flow (i.e., ECMO) and low-flow (i.e., extracorporeal carbon dioxide removal [ECCO2R]) devices in severe hypoxaemic and hypercapnic respiratory failure.

**Disease(s):** Respiratory critical care

**Method(s):** Physiology  Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, Paediatrician, Patient, Scientist (basic, translational), Adult pulmonologist/Clinician

**Chairs:** Murali Shyamsundar (Belfast (Belfast), United Kingdom), Alexandre Demoule (Paris, France)

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<tr>
<th>Time</th>
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<tr>
<td>10:45</td>
<td>New physiological insights in ECMO</td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
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</table>
Session 71 10:45 - 12:45

Symposium: Towards understanding and managing chronic cough

**Aims:** to provide a comprehensive update regarding the physiological understanding and clinical management of patients with chronic cough who present in both primary and secondary care settings.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Pulmonary function testing

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Imran Satia (Hamilton (ON), Canada), Graham H. Bothamley (London, United Kingdom), Marta Almagro (Barcelona, Spain)

**10:45** What is cough and what should be measured? The physiology of cough
Giovanni A. Fontana (Vaglia (FI), Italy)

**11:15** Cough assessment and management in primary care
Alan Kaplan (Stouffville (ON), Canada)

**11:45** Cough management in secondary care - airways disease and gastro-oesophageal reflux
Akio Niimi (Nagoya, Japan)

**12:15** Update on childhood cough
Bruce Rubin (Richmond, United States of America)

Session 72 10:45 - 12:45

Symposium: Dyspnoea: a multidimensional and multidisciplinary approach

**Aims:** to provide an overview of the state-of-the-art advances in the multidimensional and multidisciplinary aspects of dyspnoea by focusing on four themes: the neurophysiology of dyspnoea, exercise and dyspnoea, the multidimensional assessment of dyspnoea, and the clinical impact and management of dyspnoea

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Public health, Pulmonary function testing, Respiratory intensive care

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Thoracic oncologist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Pierantonio Laveneziana (Paris Cedex 13, France), Janelle Yorke (Manchester (Greater Manchester), United Kingdom)

**10:45** Multidimensional assessment methods for dyspnoea profiling in clinical practice and laboratory research
Capucine Morelot-Panzini (La Varenne Saint-Hilaire, France)

**11:12** Patient testimonial
Kjartan Mogensen (Reykjavik, Iceland)

**11:24** Affective and emotional dimensions of dyspnoea in chronic lung disease
Andreas von Leupoldt (Leuven, Belgium)

**11:51** Common mechanisms of exertional dyspnoea in chronic lung disorders
Denis O'Donnell (Kingston (ON), Canada)

**12:18** Non-pharmacological interventions for the management of breathlessness
Miriam Johnson (Hull (North Humberside), United Kingdom)
Hot topics: Imminent global problems in lung cancer require joint action: time for an international alliance!

The best of ALA/ATS, ESMO, IASLC, JRS and ERS in lung cancer

Aims: Lung cancer constitutes a substantial global burden for not just patients but also professionals and healthcare systems. Multiple scientific international and national initiatives are tackling the various problems associated with this debilitating and still deadly disease. ALA/ATS, ESMO, IASLC, JRS and ERS will highlight the most recent aspects of care from their individual perspectives, with the aim of building an international lung cancer alliance.

Disease(s): Interstitial lung diseases, Thoracic oncology

Method(s): Cell and molecular biology, Endoscopy and interventional pulmonology, Imaging, Public health, Surgery

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Mina Gaga (Athens, Greece), Jan van Meerbeeck (Edegem (Antwerp), Belgium)

10:45 Official ceremony for signature of joint agreement between ERS and IALSC

10:45 Key issues in optimising and implementing low-dose computed tomography lung cancer-screening programmes
David Baldwin (Nottingham (Nottinghamshire), United Kingdom)

10:45 The ALA/ATS implementation guide on lung cancer screening
Carey C. Thomson (Boston, United States of America)

10:45 IASLC PD-L1 Blueprint Project
Fred R. Hirsch (Aurora, United States of America)

10:45 The Asian experience in co-existing lung cancer and interstitial lung disease
Yoichi Nakanishi (Fukuoka, Japan)

10:45 Lung cancer immunotherapy
Solange Peters (Lausanne, Switzerland)

7.3B Session 74 10:45 - 12:45

Oral presentation: Mechanisms that underlie exercise limitation in various respiratory diseases

Disease(s): Pulmonary vascular diseases, Airway diseases, Sleep and breathing disorders

Method(s): General respiratory patient care, Physiology, Epidemiology

Chairs: J. Alberto Neder (Kingston (ON), Canada), Zafeiris Louvaris (Leuven, Belgium)

Effects of maximal volitional hyperpnoea on exercise tolerance and locomotor muscle fatigue
Michael Johnson (Nottingham (Nottinghamshire), United Kingdom), Robert Needham, Ryan Williams, Jack Ashby, Neil Williams, Dean Mills, Graham Sharpe

Sensory consequences of critical inspiratory constraints during exercise in pulmonary arterial hypertension
Franciele Plachi (Porto Alegre, Brazil), Rui Dorneles, Bianca Feldmann, Vinicius Timm, Igor Benedetto, Marcelo Gazzana, José Alberto Neder, Danilo Cortozi Berton

Impaired cerebral oxygenation and exercise tolerance in patients with severe obstructive sleep apnoea syndrome
Mathieu MARILLIER (Echirolles, France), Mathieu Gruet, Sebastien Baillieul, Bernard Wuyam, Renaud Tamisier, Patrick Levy, Jean-Louis Pepin, Samuel Verge

Thoracoabdominal asynchrony contributes to exercise limitation in mild asthmatic subjects
Andrea Aliverti (Milan, Italy), Guilherme Fregonezi, Antonio Sarmento, Janaina Pinto, Antonella Lomauro, Vanessa Resqueti

The relationship between lung function and blood pressure and the mediation role of physical activity and cardiorespiratory fitness in adults: cross-sectional results from the EPIMOV study
Víctor Dourado (Santos (SP), Brazil), Flávio Almeida, Vitor Almeida, Evandro Sperandio, Marcello Romiti, Antônio Gagliardi, Rodolfo Arantes

Exercise ventilatory inefficiency in adults with Cystic Fibrosis with normal to moderate impairment in lung function
Marcello Di Paolo (Roma (RM), Italy), Elisabetta Teopompi, Daniela Savi, Ernesto Crisafulli, Chiara Longo, Panagiota Tzani, Francesco Longo, Antonella Ielpo, Giovanna Pisi, Giuseppe Cimino, Alfredo Chetta, Paolo Palange
Symposium: Multidisciplinary approach to ground-glass opacities

Aims: to review the current guidelines regarding the management and follow-up of ground-glass opacity (GGO) nodules in the light of experience from screening trials; and to describe the use of minimally invasive tissue biopsies and the marking of GGO nodules for surgery.

Disease(s): Interstitial lung diseases Thoracic oncology

Method(s): Surgery

Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Radiologist, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Dragan R. Subotic (Basel, Switzerland), Paola Rogliani (Roma (RM), Italy)

10:45 Ground-glass opacity - computed tomography features
Sara Piciucchi (Forlì, Italy)

11:15 Differential diagnosis of ground-glass opacity lung nodules
Sara Colella (Teramo (TE), Italy)

11:45 Radioguided video-assisted resection of non-palpable solitary pulmonary nodule/ground-glass opacity
Luca Bertolaccini (Bologna (BO), Italy)

12:15 Outcomes of surgical resections of pulmonary ground-glass opacity nodules
Yong Soo Choi (Seoul, Republic of Korea)

Symposium: Gene-environment interactions in the omics era

Aims: to review current knowledge about gene-environment (GxE) interactions in respiratory disease, which are believed to underlie the well-known fact that individuals respond differently to various environmental exposures such as tobacco smoke and air pollutants; to outline the clinical implications of what we know about GxE interactions and the future directions for studies and public health actions; to describe basic concepts about GxE interactions, provide examples of successful GxE studies in the literature, highlight methodological challenges and describe optimal study design. In particular, the GxE interactions in the omics era will be reviewed, namely, how these interactions are being evaluated at the DNA, epigenetic, transcriptomic and proteomic level.

Disease(s): Airway diseases Paediatric respiratory diseases

Method(s): Cell and molecular biology Epidemiology Public health

Tag(s): Translational

Target audience: Paediatrician, Policy maker, Scientist (basic, translational)

Chairs: H. Marike Boezen (Groningen, Netherlands), Klaus Bonnelykke (Allerød, Denmark)

10:45 The optimal study design for identifying gene-environment interaction effects in large-scale studies
Florence Demenais (Paris, France)

11:15 Using omics data to detect gene-environment interactions - results from studies on air pollution and asthma
Erik Melén (Stockholm, Sweden)

11:45 Lessons in gene-environment interactions from the UK Biobank - clinical implications
Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom)

12:15 Identifying individuals who are susceptible to the effects of environmental exposures - implications for public health actions
Isabella Annesi Maesano (Paris, France)

Oral presentation: Pleural disease: diagnosis, monitoring and management

Disease(s): Thoracic oncology

Method(s): General respiratory patient care Endoscopy and interventional pulmonology Imaging Physiology
**The DIAPHRAGM study: Diagnostic and prognostic biomarkers in the rational assessment of Mesothelioma**
Selina Tsim (Glasgow (Glasgow), United Kingdom), Caroline Kelly, Laura Alexander, Ann Shaw, James Paul, Rosemary Woodward, John Foster, Kevin Blyth

**Recurrence rates in primary spontaneous pneumothorax: results of systematic review**
Steven Walker (Bristol (Avon), United Kingdom), Paul White, Nick Maskell

**Results of pre-EDIT; a randomised feasibility trial of Elastance-Directed Intra-pleural catheter or Talc Pleurodesis (EDIT) in malignant pleural effusion**
Kevin Blyth (Glasgow (Glasgow), United Kingdom), Geoffrey Martin, Andrew Kidd, Selina Tsim, Rosmary Woodward, Tracey Hopkins, John Foster, Philip Mcлоone

**Needle Based Confocal Laser Endomicroscopy (nCLE) for Diagnosing Malignant Pleural Mesothelioma**
Lizzy Wijmans (Amsterdam, Netherlands), Maria Disselhorst, Daniel De Bruin, Joris Roelofs, Onno Mets, Peter Bonta, Paul Baas, Jouke Annema

**Intrapleural anaesthesia for medical thoracoscopy - a pilot study**
Mahmoud Reda (Alexandria, Egypt), Mahmoud Reda (Cairo, Egypt), Asmaa Gomaa, Maged Hassan, Mostafa Shaheen, Salah Sorour

**Does talc increase risk of non-draining septated pleural effusion after indwelling pleural catheter insertion?**
Rachelle Asciak (Oxford (Oxfordshire), United Kingdom), Rachel M Mercer, Robert J Hallifax, Maged F Hassan, Nikolaos Kanellakis, John M Wrightson, Ioannis Psallidas, Najib M Rahman

**68Ga-DOTA-NT-20.3. An innovative probe for neurotensin receptor-positive tumor imaging in the diagnosis of malignant pleural mesothelioma**
Manuela Marenco (PAVIA (PV), Italy), Vanessa Frangipane, Marina Hodolic, Simona Inghilleri, Giulia Maria Stella, Federica Meloni, Lorenzo Lodola

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**Late Breaking Abstract - Lung extracellular matrix hydrogel as bioink for 3D bioprinting: a model for studying cell -matrix crosstalk**
Jorge Otero (Barcelona, Spain), Bryan Falcones, Kest Verstappen, Esther Marhuenda, Isaac Almendros, Daniel Navajas, Ramón Farré Ventura

**COPD epithelial phenotype shows partial reversibility in long-term primary epithelial ALI-cultures.**
François Carlier (Watermael-Boitsfort, Belgium), Bruno Detry, Yves Sibille, Charles Pilette

**cKIT cells in human bronchial epithelium in asthma**
Asuncion Martinez Anton (Marseille, France), Delphine Gras, Céline Garulli, Patrice Dubreuil, Pascal Chanez

**Differentiation of Induced Pluripotent Stem Cells (iPSC) into human bronchial epithelium from healthy and severe COPD patients.**
Engi Ahmed (Montpellier, France), Said Assou, Mathieu Fieldes, Isabelle Vachier, Pascal Chanez, John De Vos, Arnaud Bourdin

**Novel cell types and altered cell states in asthma revealed by single-cell RNA sequencing of airway wall biopsies.**
Martijn C. Nawijn (Groningen, Netherlands), Orestes Carpaij, Felipe Vieira Braga, Marijn Berg, Sharon Brouwer, Gozde Kar, Sarah Teichmann, Maarten Van Den BERGE

**From Dictyostelium to human airway epithelium: adenine nucleotide translocase enhances cellular respiration and ciliary function disrupted by cigarette smoke**
Jennifer Nguyen (Baltimore, United States of America), Corrine Kliment, Yawen Lu, Steven Claypool, Sumana Raychaudhuri, Shigeki Watanabe, Pablo Iglesias, Venkataramana Sidhaye, Douglas Robinson
OA507 Functional analysis of PIERCE1, in motile ciliogenesis
Priyanka Anujan (SHEFFIELD, United Kingdom), Sudipto Roy, Lynne Bingle, Colin D Bingle

OA509 Prospective case-control study describing the lower airway microbiome in pre-school children with cystic fibrosis
Barry Linnane (Co. Limerick, Ireland), Paul Cotter, Orla O'Sullivan, Fiona Crisbie, Aaron Walsh, Julie Renwick, Paul McNally

OA510 Antibody testing for Mycobacterium avium complex infection in cystic fibrosis patients
Cecilie Ravnholt (Copenhagen N, Denmark), Tavs Qvist, Tania Pressler, Mette Kolpen, Niels Høiby

OA511 Detection of Pseudomonas aeruginosa in exhaled breath of cystic fibrosis patients
Hanne A. Neerincx (Amsterdam, Netherlands), Paul Brinkman, Pim Van Der Gouwe, Tamara Paff, Niki Fens, Marije G. Gerritsen, Eric Haarman, Wim M.C. Van Aalderen, Christof J. Majoor, Els J.M. Weersink, Lieuwe D. Bos, Peter J. Sterk, Anke-Hilse Maitland-Van Der Zee & The Amsterdam CF Research Group

OA512 Distinct volatile markers from Cystic Fibrosis pathogens with Secondary Electrospray Ionisation High-resolution Mass Spectrometry (SESI-HRMS)
Astghik Baghdasaryan (Yerevan, Armenia), Tobias Bruderer, Simona Mueller, Ronja Weber, Naemi Haas-Baumann, Srdjan J. Micic, Christoph Berger, Renato Zenobi, Alexander Möller

OA513 Randomized, double-blind, controlled trial of preventive inhalation of hypertonic saline in infants with CF (PRESIS)
Mirjam Stahl (Heidelberg, Germany), Mark Wielputz, Isabell Ricklefs, Simon Graeber, Olaf Sommerburg, Gesa Diekmann, Christian Döpfer, Sandra Barth, Anne Schlegtendal, Cordula Koerner-Rettberg, Lutz Naehrlich, Burkhard Tuemmler, Matthias Kopp, Marcus Mall

OA514 Targeting aENaC with an epithelial RNAi trigger delivery platform for the treatment of cystic fibrosis
Erik Bush (Madison, United States of America), Anthony Nicholas, Tao Pei, Ine Kuipers, WeiJun Cheng, Holly Hamilton, Julia Hegge, Xiaokai Li, Agnieszka Glebocka, Rui Zhu, Bo Chen, Philip Kuehl, Thomas Schuep, Zhen Li

OA515 Late Breaking Abstract - Aerosolized gold nanoparticles as a vehicle for prolonged donor lung treatment
ANDREACAROLA URSO (NEW YORK, United States of America), Veronica Collico, Miriam Colombo, Federica Meloni, Christopher Damoci, Guillermína García, Kazuki Sugahara, Frank D'Ovidio

OA516 Late Breaking Abstract - CRAC channel inhibition by RP3128 triggers potent anti-inflammatory effects in COPD or asthmatic patient-derived primary cells
Srikant Viswanadha (La Chaux-de-Fonds, Switzerland), Julio Cortijo, Javier Milara, Swaroop Vakkalanka

OA517 Late Breaking Abstract - Increased type 2 inflammation in patients with asthma post rhinovirus infection
Thomas Southworth (Manchester (Greater Manchester), United Kingdom), Caroline Pattwell, Sarah F. Mowbray, Robert M. Strieter, Veit J. Erpenbeck, Dave Singh

OA518 Late Breaking Abstract - Insulin potentiates methacholine and serotonin-induced increases in tracheal smooth muscle intracellular calcium
Becky Proskocil (Portland, United States of America), David Jacoby, Allison Fryer, Zhenying Nie

OA519 Late Breaking Abstract - Development of an ex vivo pediatric preclinical model of bronchopulmonary dysplasia for aerosol regional deposition studies
Yoann Montiguad (Saint-Etienne Cedex 2, France), Sophie Perinel, Jean-Christophe Dubus, Marie Sauau, Lara Leclerc, Nathalie Prevot, Jeremie Pourchez
Late Breaking Abstract - TGF-ß impairs fibroblast ability to support lung organoid formation: pharmacological restoration by GSK-3 inhibition and secreted niche factor supplementation
Reinoud Gosens (Groningen, Netherlands), John-Poul Ng-Blichfeldt, Victor Guryev, Pieter Hiemstra, Tristan De Jong, Rosa Korteekaas, Jan Stolk, Melanie Königshoff

Late Breaking Abstract - Daily physical activity in patients with severe eosinophilic asthma and the effect of anti-IL5 therapy.
Marios Panagiotou (Athens, Greece), Antonia Koutsoukou, Nikolaos Koulouris, Nikoletta Rovina

Late Breaking Abstract - Explore the effective dose of bronchodilator nebulization via high flow nasal cannula in adult COPD and asthma patients
Jie Li (Chicago, United States of America), Jie Li, Maierbati Hadeer, Minghua Zhao, James Fink

7.3L Session 81 10:45 - 12:45
Poster discussion: Challenges in treating tuberculosis and nontuberculous mycobacteria

Disease(s): Respiratory infections, Airway diseases, Respiratory infections

Method(s): Cell and molecular biology, Public health, Epidemiology, General respiratory patient care

Chairs: Dirk Wagner (Freiburg, Germany), Margareth Maria Pretti Dalcolmo (Río De Janeiro (RJ), Brazil)

PA523 Risk score of drug-induced liver injury among new tuberculosis patients
Diana Ivanova (Moscow, Russian Federation), Diana Ivanova, Sergey Borisov

PA524 Ursodeoxy cholic acid (UDCA) reverses hepatotoxicity of multidrug treatment of mycobacterial infections
Susanne Lang (Gera, Germany), Sven Rostig, Helmut Schiffl

PA525 Efficacy of small-volume plasmapheresis application for MDR/XDR TB patients with medicinal live damage?
Anastasia Samoilova (Moscow, Russian Federation), Eduard Vaniev, Irina Vasilyeva, Olga Lovacheva, Atadzhan Ergeshov

PA526 The frequency of cases of hepatotoxic reactions in first diagnosed patients with pulmonary tuberculosis
Alexey Kazakov (Moscow, Russian Federation), Galina Mojokina, Sergey Smerdin, Valentina Aksenova, Nadejda Klevno

PA528 Video observed treatment for tuberculosis patients in Belarus.
Alena Skrahina (Minsk region, Belarus), Heorhi Sinko, Vasily Akulov, Viatcheslav Grankov, Alistair Story, Henadz Hurevich, Masoud Darap

PA529 Does hospitalization influence tuberculosis’ treatment outcome? – A Portuguese nationwide study
Rita Boaventura (Porto, Portugal), João Vasco Santos, João Viana, Alberto Freitas, Raquel Duarte

PA531 Tuberculosis in women: A reflection of gender inequity
Jyoti Bajpai (Lucknow (Uttar Pradesh), India), Kanchan Srivastava, Surya Kant, Aporvra Narain

PA532 Tuberculosis and tobacco: is there any epidemiological association?
Eva Filipa de Sousa Antunes Dias Padrão (Braga, Portugal), Olena Oliveira, Óscar Felgueiras, Ana Rita Gaio, Raquel Duarte

PA533 Comparative study of tuberculosis in smokers and non-smokers
fatimazahra chaibate (CASABALANCA, Morocco), Hasna Jabri, Wiam Elkhattabi, Hicham Afif

PA534 A new type of mediterranean mycobacteriosis
Kathleen Jahn (Basel, Switzerland), Veronika Baettig, Helena Seth-Smith, Michael Tamn, Adrian Egli

PA535 Characterization of drug susceptibility of nontuberculous mycobacteria of M.chelonae and M.fortuitum complexes.
Marina Makarova (Nizhnekamsk (Republic Tatarstan), Russian Federation), Elena Khachaturiants, Maria Krasnova, Ksenia Galkina, Julia Mikhailova, Lidia Guntupova, Vitalii Litvinov

PA536 Drug susceptibility of slowly growing nontuberculous mycobacteria (sNTM) isolated in the European part of Russian Federation
Tatiana Smirnova (Moscow, Russian Federation), Atadzhan Ergeshov, Sofya Andreevskaya, Irina Andreevskaya, Ekaterina Kiseleva, Elena Larionova, Larisa Chernousova

PA537 Significance of Mycobacterium Avium Complex (MAC) isolation in bronchoscopic samples
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Sandra Pedrero Tejada, Idoia Salinas Garrido, Elena Urra Zabildegoitia, Isabel Lopez Aranaga, Rafael Zalacain Jorge
Association between injectable aminoglycoside treatment duration and outcomes in cavitary Mycobacterium avium complex lung disease

Ock-Hwa Kim (Seoul, Republic of Korea), Byoung Soo Kwon, Younsuck Koh, Woo-Sung Kim, Jin-Woo Song, Yeon-Mok Oh, Sang-Do Lee, Sei Won Lee, Jae-Seung Lee, Chae-Man Lim, Chang-Min Choi, Jin-Won Huh, Sang-Bum Hong, Tae Sun Shim, Kyung-Wook Jo

The effect of alcohol consumption in the treatment of nontuberculous mycobacteria

Maria Gabriel Gonçalves Jacob (Porto, Portugal), Ricardo Silva, Rita Gaio, Raquel Duarte, Bethany Ahlers (Bethany.Ahlers@uvm.edu / University of Vermont, Vermont Genetics Network,Burlington, VT), Catrina Hood (Catrina.Hood@uvm.edu / University of Vermont, Vermont Genetics Network,Burlington, VT), Bin Deng (Bin.Deng@uvm.edu / University of Vermont, Department of Biology,Burlington, VT), Ying-Wai Lam (Ying-Wai.Lam@uvm.edu / University of Vermont, Department of Biology,Burlington, VT), Erica Beatman (BeatmanE@NJHealth.org / National Jewish Health,Denver, CO), Kelly Schweitzer (SchweitzerK@NJHealth.org / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine,Denver, CO), Irina Petrache (Petrach@NJHealth.org / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine,Denver, CO), Daniel Weiss (daniel.weiss@uvm.edu / University of Vermont, College of Medicine,Burlington, VT), Darcy Wagner (darcy.wagner@med.lu.se / Lund University,Lund)

Terminal 7  Session 82  10:45 - 12:45

Oral presentation: Clinical news in idiopathic interstitial pneumonias

Disease(s): Interstitial lung diseases, Thoracic oncology

Method(s): Respiratory intensive care, Transplantation, General respiratory patient care, Endoscopy and interventional pulmonology, Cell and molecular biology, Imaging, Epidemiology

Chairs: Vincent Cottin (Lyon, France), Sara Tomassetti (Forli, Italy)

OA540  Late Breaking Abstract - Prevalence and clinical significance of antinuclear antibody (ANA) in IPF: analysis from ESTAIR study

Peter Wung (Sugar Land, United States of America), Ganesh Raghu, Bruno Crestani, Luca Richeldi, Corinne Esperet, Christina Soubrane

OA541  Four metre gait speed (4MGS) predicts mortality and hospitalisation in IPF

Claire M. Nolan (London, United Kingdom), Matthew Maddocks, Toby M Maher, Sarah E Jones, Suhani Patel, Ruth E Barker, Peter M George, Paul Cullinan, William D-C Man

OA542  A global perspective on acute exacerbation of idiopathic pulmonary fibrosis (AE-IPF): results from an international survey


OA543  Associations of interstitial lung abnormalities with physical function measures

Gisli Thor Axelsson (Selfoss, Iceland), Rachel K Putman, Ezra R Miller, Tetsuro Araki, Sigurdur Sigurdsson, Elias F.Gudmundsson, Gudny Eiriksdottir, Kristin Siggeirsdottir, Thor Aspelund, Lenore J Launer, Tamara B Harris, Hiroto Hatafu, Vilmundur Gudnadason, Gary M Hunninghake, Gunnar Gudmundsson

OA544  INTERSTITIAL LUNG DISEASE IN A LUNG CANCER SCREENING PROGRAM: PREVALENCE AND ASSOCIATION WITH CANCER.

Aranzuazu Campo Ezquibela (Pamplona (Navarra), Spain), Amaia Merino Hernandez, Jessica Gonzalez Gutierrez, Marta Marin Oto, Ana Belen Alcaide Ocaña, Juan Pablo De Torres Tajes, Javier Zulueta Frances

OA545  Longitudinal outcomes of patients enrolled in a phase Ib clinical trial of the Adipose Derived Stromal Cells-Stromal Vascular Fraction in Idiopathic Pulmonary Fibrosis

Paschalis Ntolios (Alexandroupolis, Greece), Eleni Manoloudi, Argyrios Tzouvelekis, Evangelos Bouros, Paschalis Steiropoulos, Stavros Anevlias, Demosthenes Bouros, Marios Froudarakis

OA546  Nintedanib plus sildenafil in patients with idiopathic pulmonary fibrosis (IPF): the INSTAGE trial

Martin Kolb (Hamilton (ON), Canada), Athol Wells, Jürgen Behr, Luca Richeldi, Birgit Schinzel, Manuel Quaresma, Susanne Stowasser, Ganesh Raghu, Fernando J Martinez
**Contribution of mutations in genes of the surfactant system to idiopathic interstitial pneumonia (IIP)**


### Session 7.2A: Poster discussion: Assessing pathophysiology in children

**Method(s):** Imaging, Endoscopy and interventional pulmonology, General respiratory patient care, Epidemiology, Physiology

**Chairs:** Shannon Simpson (Perth (WA), Australia), Peter Coss (Dublin (8, Ireland))

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<tr>
<th>Poster Number</th>
<th>Title</th>
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<tr>
<td>PA548</td>
<td>Evaluating the respiratory health of children with spinal muscular atrophy (SMA) type 1 on Nusinersen</td>
<td>Chris Grime (Liverpool, United Kingdom), Lisa Edel, Victoria Robinson, Gareth Rendel, Francois Abel, Elaine Chan</td>
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<tr>
<td>PA549</td>
<td>Comparison of oxygen desaturation index and apnoea-hypopnoea index for categorising OSA in children.</td>
<td>Courtney Dos Santos (London, United Kingdom), Martin Samuels, Aidan Laverty, Emma Raywood</td>
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<td>PA550</td>
<td>Residual obstructive sleep apnoea symptoms after adenotonsillectomy in children</td>
<td>Mahesh Babu Ramamurthy (Singapore, Singapore), Michael T.C. Lim, Daniel Y.T. Goh, Woei Shyang Loh, Maria Jimenez</td>
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<tr>
<td>PA551</td>
<td>Evaluation of the sleep history in predicting sleep disordered breathing in children</td>
<td>Molla Imaduddin Ahmad (Leicester (Leicestershire), United Kingdom), David Luyt</td>
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<tr>
<td>PA552</td>
<td>Obstructive events in children with Prader-Willi syndrome occur predominantly during REM sleep</td>
<td>Athanasios G. Kadicis (Athens, Greece), Anastasia Polytarchou, Georgia Katsouli, Marina Tsiaussoglou, Polytimi Panaghiotopoulou-Gartagani</td>
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<tr>
<td>PA553</td>
<td>Can Drug-Induced Sleep Endoscopy in children predict OSA persistence after adenotonsillectomy</td>
<td>Silke Anna Theresa Weber (Botucatu (SP), Brazil), Jefferson Barros, Antonio Carlos Marão</td>
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<td>PA554</td>
<td>Usefulness of symbolic dynamics to characterize oximetric recordings from a smartphone in the detection of pediatric sleep apnea</td>
<td>Daniel Alvarez (Valladolid, Spain), Ainara Garde, Andrea Crespo, Fernando Vaquerizo-Villar, Gonzalo C Gutiérrez-Tobal, Ana Cerezo-Hernández, J Mark Ansermino, Guy A Dumont, Roberto Hornero, Félix Del Campo</td>
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<tr>
<td>PA555</td>
<td>Diagnosis of peripheral obstructive pattern in children</td>
<td>Nicole Beydon (Paris, France), Edouard Dufetelle</td>
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<td>PA556</td>
<td>Effect of preterm-birth on later bronchial hyper-responsiveness: a systematic review.</td>
<td>Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), Thomas Halvorsen, Hege Clemm, Sailesh Kotecha</td>
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<td>PA557</td>
<td>Ventilatory efficiency during exercise: data from a contemporary cohort of preterm-born children</td>
<td>John Lowe (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Michael Cousins, Sailesh Kotecha</td>
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<td>PA558</td>
<td>Exercise capacity and response of exercise-induced bronchoconstriction to bronchodilator in preterm-born children with low lung function</td>
<td>Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Mark Williams, John Henderson, Sailesh Kotecha</td>
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<td>PA559</td>
<td>Forced oscillation technique to assess exercise and post-exercise bronchodilator responses in preterm-born children</td>
<td>Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Bence Radics, Dorotyta Czovek, Zoltan Hantos, Peter Sly, John Henderson, Sailesh Kotecha</td>
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### Poster discussion: COPD phenotypes: 1 antitrypsin deficiency and beyond

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<th>Disease(s)</th>
<th>Method(s)</th>
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<tr>
<td>Pulmonary vascular diseases</td>
<td>Imaging, Epidemiology, General respiratory patient care, Cell and molecular biology</td>
<td>Elizabeth Sapey (Birmingham (West Midlands), United Kingdom), Laura Fregonese (London, United Kingdom)</td>
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| PA565 | Late Breaking Abstract - Identification of obstructive lung disease in Austrian pharmacies - a multi-site, cross-sectional case finding study | Philipp Krug (Salzburg, Austria), Maria Flamm, Bernd Lamprecht, Bernhard Kaiser, Michael Studnicka |
| **PA566** | Late Breaking Abstract - Resistomics of sputum from COPD and healthy subjects reveals bacterial load-related prevalence of antimicrobial-resistance-encoding genes | Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Koorobi Haldar, Mona Bafadhel, Vijay Mistry, Leena Goerge, Marco Vaccari, Michael Barer, Chris Brightling |
| **PA567** | Effect of exacerbations on lung density in alpha-1 antitrypsin deficiency: Subgroup analysis of the RAPID trial programme | Charlie Strange (Charleston, United States of America), N. Gerard McElvaney, Claus Vogelmeier, Michael Fries, Jinesh Shah, Angel Shebl, Oliver Vit, Marion Wencker, Kenneth R. Chapman |
| **PA568** | Screening of chronic liver disease by transient elastography in patients with lung disease associated with alpha-1 antitrypsin deficiency | Miriam Barrecheguren Fernandez (Barcelona, Spain), Mónica Pons, Maria Torres, Ramón Antonio Tubio, Alex Nuñez, Ignacio Martin-Granizo, Montserrat Figuera-Alvarez, Esther Rodriguez, Cristina Esquinas, Joan Geneseca, Marc Miravitlles |
| **PA569** | Factors associated with testing of COPD patients for serum AAT levels to detect cases of AATD. The EPOCONSUL study. | Gianna Vargas Centanaro (Madrid, Spain), Juan Luis Rodriguez Hermosa, Joan B Soriano, José Luis López-Campos, Juan José Soler Cataluña, José Rodriguez Gonzalez Moro, Bernardino Alcázar Navarrete, Myriam Calle Rubio |
| **PA570** | Effects of double dose alpha 1 antitrypsin (AAT) therapy on cytokine pathways in AAT Deficiency (AATD) | Michael Campos (Miami, United States of America), Patrick Geraghty, Gregory Holt, Eli Donno, Eliana Mendes, Luis Escobar, Ladya Luna, Robert Stockley |
| **PA571** | Family screening in alpha-1 antitrypsin deficiency | Ana Filipa Cruz e Costa (Taveiro, Portugal), Inês Albuquerque Monteiro |
| **PA573** | Description and analysis of the Alpha 1 antitrypsin deficientary genotypes in the southwest area of Galicia (Spain) | Ramon Antonio Tubio Perez (Noia, Spain), Maria Torres Duran, Milagros Blanco Perez, Cristina Ramos Hernandez, Cecilia Mournote Roibas, David DACAL Rivas, Victoria Armalich Montiel, Alberto Fernandez Villar |
| **PA574** | Clinical phenotyping of COPD patients: a simple tool with prognosis value | Ahmed Ben Saad (Monastir, Tunisia), Nesrine Fahem, Saousen Cheikh Mhamed, Asma Migaou, Samah Joobeur, Naceur Rouatbi |
PA576 The discriminatory capacity of symptoms to distinguish undiagnosed COPD from non-COPD
Kate Johnson (Vancouver (BC), Canada), Wan Tan, Jean Bourbeau, Mohsen Sadatsafavi

PA577 Airway morphometry in COPD-bronchiectasis overlap.
Stephanie Everaerts (Leuven, Belgium), Stijn Verleden, John Medconough, Jef Serré, Carolien Mathyssen, Matthieu Boone, Iván Josipovic, Lieven Dupont, Bart Vanaudenaerde, Wim Janssens

PA578 Association of NRAMP1 gene polymorphisms with COPD clinical signs
Sophia V. Nesterovich (Tomsk, Russian Federation), Ekaterina B. Bukreeva

PA580 Altered serum metabolomics in COPD: analysis of the SPIROMICS cohort
Wassim Labaki (Ann Arbor, United States of America), Tian Gu, Susan Murray, Jeffrey Curtis, Russell Bowler, R. Graham Barr, Eric Hoffman, Alejandro Comellas, Nadia Hansel, Christopher Cooper, Richard Kanner, Robert Paine II, Gerard Criner, Mark Dransfield, Merry-Lynn Mcdonald, Jerry Krishnan, Eugene Bleecker, Stephen Peters, Prescott Woodruff, Wanda O’Neal, Wenqi Diao, Bei He, Fernando Martinez, Theodore Standiford, Kathleen Stringer, Meilan Han

PA581 Analysis and comparison of the transcriptome of COPD patients with and without lung cancer
Renata Ferrari (Botucatu (SP), Brazil), Guillaume Noell, Laura Caram, Suzana Tanni, Ludimila Nogueira, Simone Vale, Erica Hasimoto, Raul Ruiz, Rosa Faner, Alvar Agusti, Irma Godoy

7.2C Session 85 10:45 - 12:45
Poster discussion: Regenerative and anti-fibrotic approaches

Disease(s) : Airway diseases  Interstitial lung diseases  Pulmonary vascular diseases  Respiratory critical care
Method(s) : Imaging  Endoscopy and interventional pulmonology  Transplantation  Cell and molecular biology
Chairs : Darcy Wagner (Lund, Sweden), Maria Rosa Faner Canet (Barcelona, Spain)

PA582 Late Breaking Abstract - PRRX1 inhibition decreases fibrosis in the bleomycin-induced lung fibrosis model in mice
Emmeline Marchal-Duval (Paris, France), Antoine Froidure, Madeleine Jaillot, Mada Ghanem, Audrey Joannes, Arnaud Murauc, Ksenija Schirduan, Franck Jaschinski, Bruno Crestani, Arnaud Mailleux

PA583 LSC - 2018 - Generation of alveolar epithelial cells from human induced pluripotent stem cells for a model of alveolar wound repair
Sander van Riet (Leiden, Netherlands), Dennis Ninaber (D.K.Ninaber@lumc.nl / Leiden University Medical Center,Leiden), Robbert Rottier (r.rottier@erasmusmc.nl / Erasmus MC,Rotterdam), P.H.Laurens@lumc.nl (Leiden University Medical Center,Leiden), Pieter H.Hoogeboom@lumc.nl (Leiden University Medical Center,Leiden)

PA584 Novel compounds for WNT/β-catenin induced lung repair in chronic obstructive pulmonary disease
Rita Costa (München, Germany), Darcy E. Wagner, Martina M. De Santis, Kenji Schorpp, Ina Rothemaigner, Chiara Lucarelli, Arnaud Mailleux

PA585 Immunomodulatory properties of Lung Resident Mesenchymal Stem Cells in patients with COPD
Maria Rosa Faner Canet (Barcelona, Spain), Tamara Cruz, Alejandra Lopez-Giraldo, Guillaume Noell, Alvar Agusti

PA586 Cigarette smoke exposure decreases CFLAR expression in bronchial epithelium, augmenting susceptibility for cell death and DAMP release
Simon D. Pauwels (Groningen, Netherlands), Alen Faiz, Irene H. Heijink, Cornelia E. Vermeulen, Victor Guryev, Maarten Van Den Berge, Martijn C. Nawijn

PA587 Use of alveolar epithelial cells derived from induced pluripotent stem cell to study alveolar wound repair in vitro
Sander van Riet (Leiden, Netherlands), Dennis Ninaber, Robbert Rottier, Christian Freund, Pieter H.Hoogeboom

PA588 Equine decellularized lung: a potential approach for regenerative medicine
Renata Palma (São Paulo (SP), Brazil), Andressa Careria, Gustavo Matias, Paula Fratini, Leticia Guimarães, Luis Vicente Oliveira, Ramon Farre, Maria Angélica Miglino

PA589 Regeneration of functional lung by adult human SOX9+ airway basal cell transplantation
Wei Zuo (Shanghai, China), Ting Zhang, Tao Ren

PA590 Increased proliferation of type 2 alveolar epithelial cells in a pneumonecetomy model mice with a deletion of p16ink4a gene.
Bruno Ribeiro Baptista (Nancy, France), Maeva Zysman, Rachid Soulktani, Clement Giffard, Muriel Lize, Sandrine Pons, Sophie Lanone, Jorge Boczkowski, Laurent Boyer

PA591 Effect of inhaled antioxidants on surfactant phospholipids under prolonged experimental hyperoxia
Iryna Katovich (Minsk, Belarus), Zhanna Rylkovskaia, Anatoly Tahonovich
Poster discussion: Innovative therapies in asthma and COPD

Disease(s): Airway diseases

Method(s): Imaging, Cell and molecular biology, General respiratory patient care, Epidemiology

Chairs: Dave Singh (Manchester, United Kingdom), Anirban Sinha (Amsterdam, Netherlands)

PA600 Intravenous (IV) reslizumab improves asthma control, symptoms, and quality of life in patients with historically elevated blood eosinophils
Pascal Chanez (Marseille, France), Yochai Adir, Mario Castro, Laurie Pahus, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Anne Sofie Bjerrum (Århus, Denmark), Johannes Schmid, Tina Skjold

PA602 Oral corticosteroid (OCS)-sparing effect of tralokinumab in severe, uncontrolled asthma: the TROPOS study
William Busse (Madison, United States of America), Guy Brusselle, Stephanie Korn, Piotr Kuna, Antoine Magnan, David Cohen, Karin Bowen, Teresa Piechowiak, Millie Wang, Gene Colice

PA603 Benralizumab efficacy in patients with uncontrolled eosinophilic asthma by age at diagnosis
Sally Wenzel (Pittsburgh, United States of America), Guy Brusselle, Ian Hirsch, James G. Zangrilli, Sarang Rastogi

PA604 Serum GAL3 predict response in omalizumab-treated patients with severe allergic asthma: the PROXIMA study
Giorgio Walter Canonica (Milano (MI), Italy), Anna Maria Riccio, Pierluigi Mauri, Marta Bartzeghi, Fabiana Saccheri

PA605 Bronchial thermoplasty in severe asthmatics: a retrospective study on 10 cases with one year follow-up
An Frix (Liege, Belgium), Vincent Heinen, Florence Schleich, Bernard Duysinx, Virginie Paulus, Renaud Louis

PA606 Further resolution of non-T2 asthma subtypes from high-throughput sputum transcriptomics data in U-BIOPRED
nazanin Zoumenat Kermani (hanworth, United Kingdom), Stelios Pavlidis, Mansoor Saqi, Yike Guo, Paul Agapow, Chih-Hsi Kuo, Matthew Loza, Frederic Baribaud, Anthony Rowe, Ana Sousa, Bertrand De Meulder, Diane Lefaudeux, Louise Fleming, Julie Corfield, Richard Knowles, Charles Auffray, Ratko Djukanovic, Peter J. Sterk, Ian Adcock, Fan Chung

PA607 Extrafine glycopyrronium bromide (GB) in addition to extrafine beclomethasone dipropionate/formoterol fumarate (BDF/F) in uncontrolled asthmatic patients
Dave Singh (Manchester, United Kingdom), George Georges, Mario Scuri, Ilaria Valente, Alessandro Guasconi, Francoise Zuccaro, Alberto Papi

PA608 Safety profile of tiotropium add-on therapy in paediatric patients by gender
Christian Vogelberg (Dresden, Germany), Eckard Hamelmann, Michael Engel, Georges El Azzi, Sebastian Dan Vulcu, Stanley Szeffer
PA609 Methodology of clinical trials in COPD exacerbations: Eligibility criteria and endpoint selection.
Alexander Mathioudakis (Manchester, United Kingdom), Mia Moberg, Julie Janner, Pablo Alonso-Coello, Jørgen Vestbo

PA610 Patients’ ability to use a novel fluticasone propionate/formoterol breath-triggered inhaler (BTI) vs. budesonide/formoterol dry powder inhaler (DPI) 
David Bell (Belfast, United Kingdom), Wolfgang Timmer, Lucielle Mansfield, Mark Lomax, Birgit Grothe, Tim Overend

PA611 Dual bronchodilation vs triple therapy in the real-life DACCORD study
Carli-Peter Criee (Bovenden, Germany), Peter Kardos, Heinrich Worth, Nadine Lossi, Konstantinos Kostikas, Claus Vogelmeier, Roland Buhl

PA612 Lung deflation with indacaterol/glycopyrronium improves pulmonary microvascular blood flow in the CLAIM Study
Jens Vogel-Clausen (Hannover, Germany), Christian-Olaf Schoenfeld, Christoph Czerner, Julius Renne, Till Kaireit, Hanns-Christian Tillmann, Korbinction Berschneider, Simone Hiltl, Johann Bauersach, Tobias Welte, Jens Hohlfeld

PA613 Disease control and treatment pathways of asthma patients after initiating ICS/LABA 
Roland Buhl (Mainz, Germany), Liam G Heaney, Emil Loefroth, Paul Michael Labig, Konstantinos Kostikas, Valentino Conti, Hui Cao

PA614 Exacerbations and Eosinophil Levels in ACCESS Cohort Participants Prescribed Inhaled Triple Therapy
Hana Müllerová (Uxbridge (Middlesex), United Kingdom), Celine El-Baou, Dmitry Galkin, Paul Jones

PA615 Efficacy and safety profile of xanthines in COPD: a network meta-analysis
Mario Cazzola (Roma (RM), Italy), Luigino Calzetta, Peter J Barnes, Gerard J Criner, Fernando J. Martinez, Alberto Papi, Maria Gabriella Matera

PA616 Impact of doxofylline in COPD: a pair-wise meta-analysis
Mario Cazzola (Roma (RM), Italy), Luigino Calzetta, Paola Rogliani, Clive Page, Maria Gabriella Matera

PA617 A randomized, placebo controlled 4-week study in COPD of QBW251, a potentiator of the cystic fibrosis transmembrane conductance regulator (CFTR) protein
Steven M. Rowe (Birmingham, United States of America), Nazmul Haque, Stephen Gleason, Ieuan Jones, Kenneth Kulmatycki, David Rowlands, Sarah S. Grant

7.3J Session 87 10:45 - 12:45
Poster discussion: Orphan diseases in children

Disease(s): Interstitial lung diseases, Respiratory infections, Airway diseases, Pulmonary vascular diseases, Respiratory infections

Method(s): Physiology, General respiratory patient care, Surgery, Imaging, Epidemiology, Cell and molecular biology, Endoscopy and interventional pulmonology, Transplantation

Chairs: Deborah Snijders (Ponzano Veneto (TV), Italy), Elisabetta Balestro (Padova (PD), Italy)

PA618 Ciliary beating patterns in PCD patients of Greek origin: a four-year experience
Grigorios Chatziparasidis (Trikala, Greece), Konstantinos Dourou, Barbara Mpoutopoulou, Marios Papadopoulos, Basilis Grammeniatis, Katerina Dimakou, Kostas Priftis

PA619 Outcomes in idiopathic pulmonary haemosiderosis in children are highly heterogeneous
Frederik Buchvald (Vejby, Denmark), Astrid Madsen Ring, Kim Gjerum Nielsen

PA620 Pulmonary Complications After Hematopoietic Stem Cell Transplantation In Pediatric Hematology Patients
Nesilhan Dogulu (Ankara, Turkey), Elif Ince, Talia Ileri, Mehmet Ertem, Nazan Cobanoglu

PA621 Newborn screening for CF: first tree years experience in Hacettepe University
Mina Gharibzadeh Hizal (Ankara, Turkey), Ebru Yalınç, Sanem Eryılmaz, Nagehan Emiralioglu, Deniz Doğru Ersöz,UGHT Özçelik, Nural Kiper

PA622 Pigeon breeder’s disease as hypersensitivity pneumonia
Ayse Tana Aslan (Ankara, Turkey), Tuğba Ramasli Gürsöy, Tuğba Şişmanlar Eyüboğlu, Öznum Boyunaga

PA623 Cladribine as a second line treatment in a child with isolated pulmonary Langerhans cell histiocytosis – case report
Honorata Marczak (Warszawa, Poland), Joanna Lange, Katarzyna Krenke, Stanislaw Boguslawski, Katarzyna Smalisz, Iwona Malinowska

PA624 FIRST LINE TREATMENT FOR FOREIGN BODY ASPIRATION IN CHILDREN: FLEXIBLE BRONCHOSCOPY
Adem Yasar (Manisa, Turkey), Hasan Yuksel, Ozge Yilmaz, Arzu Acikel, Yurda Basbay, Ismet Topcu
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<td>PA625</td>
<td>The prevalence of non-cystic fibrosis bronchiectasis in a pediatric respiratory unit</td>
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<td>PA626</td>
<td>Sleep characteristic in children with interstitial lung disease, a case series</td>
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<td>PA627</td>
<td>Flexible bronchoscopy in children and adolescents with cystic fibrosis</td>
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<td>PA628</td>
<td>Multiple Breath Washout in clinical routine: Quality control of N2MBW measurements in paediatric lung transplant recipients</td>
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<td>PA629</td>
<td>Xpert MTB/RIF on bronchoalveolar lavage(BAL) samples reduces the need for transbronchial needle aspiration biopsy (TBNA) in children with suspected intrathoracic tuberculosis (TB)</td>
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<td>PA630</td>
<td>Follow-up of Congenital Lung Malformations (CLM) in a Pediatric tertiary center</td>
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<td>PA631</td>
<td>The relationship between bronchoscopy, radiology and microbiology in non cystic fibrosis patients</td>
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<td>PA632</td>
<td>Methylprednisolone pulse treatment influences splicing of SFTPC mRNA and promotes processing of pro-SP-C protein in twins with SFTPC mutation</td>
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<td>PA633</td>
<td>A novel non-BRICHOS surfactant protein C mutation causing infantile interstitial lung disease is associated with reduced mature SP-C level</td>
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<td>PA634</td>
<td>Medication for childhood interstitial lung diseases differs internationally</td>
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<td>PA635</td>
<td>Causative bacteria in protracted bacterial bronchitis are biofilm forming species</td>
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### Game Zone: GAME ZONE - SESSION 2

**Ultrasound**
- Julia N.S. d'Hooghe (Amsterdam, Netherlands), Angela Lopez Bauza (Spain)

**Interventional bronchoscopy**
- Lizzy Wijmans (Amsterdam, Netherlands), Fausto Leoncini (Montespertoli (FI), Italy), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Rein Posthuma (Maastricht, Netherlands)

### Thematic poster: Physiological and biological insights in asthma

**Disease(s):** Airway diseases, Respiratory infections

**Method(s):** Physiology, Endoscopy and interventional pulmonology, Surgery, Cell and molecular biology, Epidemiology, General respiratory patient care

**Chairs:** Parakkal Sukumaran (Kottayam (Kerala), India), Szymon Skoczy ski (Katowice, Poland), Asger Sverrild (København NV, Denmark), Jodie Simpson (New Lambton, Australia)

**The Severe Asthma Registry – German data**
- Stephanie Korn (Mainz, Germany), Maike Wilk, Christian Schulz, Rainer Ehmann, Marco Idzko, Eckard Hamelmann, Roland Buhl
| PA648 | Role of CD163 in human fatal asthma and murine asthma model. | Yoshisa Tokunaga (Kurume, Japan), Haruki Imaoka, Yoshitaka Morimatsu, Yoichiro Kaku, Yuki Sakazaki, Masanobu Matsuoka, Yoshhiro Komohara, Tomotaka Kawayama, Motohiro Takeya, Tomoaki Hoshino |
| PA649 | Two therapy option in patients with uncontrolled asthma | Elena Jovanovska Janeva (Skopje, FYROM (Macedonia)), Dejan Dokic, Biserka Kaeva, Gorica Breskovska, Zlatica Goseva, Zoran Arsovski, Magdalena Dimitrova, Dejan Trajkov, Olgica Sibinovska |
| PA650 | Long-term effects of a high intensity life style program in obese patients with asthma | Yasemin Türk (Rotterdam, Netherlands), Willy Theel, Astrid Van Huisstede, Erwin Birnie, Pieter Hiemstra, Christian Taube, Gert-Jan Braunstahl |
| PA652 | Adrenal insufficiency in patients with severe bronchial asthma. Evaluation employing standard response curve of rapid ACTH test in non-asthmatic healthy controls. | Michiko Haida (Tokyo, Japan), Michiko Haida, Katsutoshi Ogawa, Takahiro Inoue, Akihiko Hashiguchi |
| PA653 | Predictors of functional exercise capacity in asthmatic children and adolescents | Aylin Tanriverdi (Izmir, Turkey), Ismail Ozsoy, Buse Ozcan Kahraman, Serap Acar, Asli Papurcu, Nazenin Hande Sezgin, Karya Polat, Gizem Atakul, Nevin Uzuner, Sema Silslo, Sema Savci |
| PA654 | Impact of acute active and passive stress on physiological responses in adults with asthma | Simon Bacon (Montréal (QC), Canada), Annik Plourde, Nicola Paine, André Cartier, Kim Lavoie |
| PA655 | Psychological comorbidities in difficult asthma within the WATCH cohort | Matt Harvey (Gosport (Hampshire), United Kingdom), Adnan Azim, Yvette Thirlwall, Kerry Gove, Colin Newell, Deborah Knight, Karen Long, Hans Michael Hetchi, Ramesh Kurukulaaratchy |
| PA657 | CCQ and ACQ scores in obstructive lung disease: one questionnaire for all? | Tjeerd van der Veer (Rotterdam, Netherlands), J.C.C.M. In'T Veen |
| PA658 | 10 Year evaluation of patients with severe uncontrolled allergic asthma treated with Omalizumab. | Olga Růžičková-Kirchnerová (Plzeň, Czech Republic), Petra Moláčková, Milan Tejl, Petr Vaník, Petr Panzner |
| PA659 | Supraglottoplasty in patients with Exercise induced laryngeal obstruction (EILO) | Astrid Sandnes (Gjøvik, Norway), Magnus Hilland, Tiina Andersen, Maria Vollsæter, Ingvild Ø Engesæter, John-Helge Heimdal, Thomas Halvorsen, Ola D Røksund, Hege H Clemm |
| PA660 | Evaluation of the degree of agreement between the post bronchodilator test and bronchial hyper-responsiveness: pilot study. | Michelle Andrea Espinoza Solano (Sevilla, Spain), Cándido Fernández García, Laura Carrasco Hernández, Maria Abad Arranz, Eduardo Márquez Martín, Carmen Calero, Francisco Ortéga Ruiz, José Luis López Campos |
| PA661 | GLN27GLU POLYMORPHISM IN THE ß2-ADRENERGIC RECEPTOR GENE AND THE RISK OF ARTERIAL HYPERTENSION IN PATIENTS WITH BRONCHIAL ASTHMA | Vladyslava Kmyta (Sunne, Ukraine), Anna Bondarkova, Lyudmyla Prystupa |
| PA662 | A case series of patients with ABPA presenting with lobar collapse at a university teaching hospital | Radhika Banka (Mumbai (Maharashtra), India), Ajay Kamath |
| PA663 | Relations between serum lipid levels and inflammatory markers in obese asthma. | Cathelijne van Zelst (Rotterdam, Netherlands), Geertje De Boer, Gerdien Tramper, Gert-Jan Braunstahl |
| PA664 | Local cytokine profile specifics among patients with BA phenotype, associated to allergic rhinitis: allergic rhinitis and bronchial asthma. | Natalia Tataurshchikova (Moscow, Russian Federation) |
| PA665 | A heat and moisture exchange mask to reduce exercise induced bronchoconstriction severity | Anna Jackson (London, United Kingdom), James Hull, James Hopker, William Gowers, John Dickinson |
| PA666 | C - Reactive Protein level in obese asthmatic patients | ines laouini (nabeul, Tunisia), Haifa Zaiti, Jihen Ben Ammar, Sarra Mazaoui, Dorra Karray, Med Ali Baccar, Salwa Azezbi, Besma Dhahri, Hichem Aouina |

**TP-02 Session 94 12:50 - 14:40**

**Thematic poster: Asthma: clinical screening tools**

**Disease(s):** Respiratory critical care, Airway diseases, Sleep and breathing disorders

**Method(s):** Imaging, Endoscopy and interventional pulmonology, Cell and molecular biology, Epidemiology, Physiology, Respiratory intensive care, General respiratory patient care
PA667
Breathing Pattern Assessment Tool as a new screening tool to identify dysfunctional breathing
Farnam Barati Sedeh (Birkerød, Denmark), Anna Von Bülow, Vibeke Bækker, Uffe Bødtger, Ulrik Søes Petersen, Susanne Vest, James Hull, Celeste Porsbjerg

PA668
Which patient reported symptoms on the VCDQ may be predictive of positive diagnosis of Inducible Laryngeal Obstruction?
Claire Slinger (Clitheroe (Lancashire), United Kingdom), Jessica Blakemore, Richard Slinger, Aashish Vyas

PA669
Asthma admissions to ICU, what are we really treating?
Sarah Forster (Nottingham (Nottinghamshire), United Kingdom), Mohamed Mansour, James Bonnington, Dominick Shaw

PA670
A nurse phone educational program enhances health status of asthmatic patients after an emergency department admission for acute exacerbation
Gilles Mangiapan (Creteil, France), Thibaut Desmettre, Anne Prud'Homme, Jean Charles Dalphin, Bruno Stach, Sergio Salmeron, Patrick Plaisance

PA672
Detecting the presence of fungal signals in the asthmatic airway
Ashley Sullivan (Cork, Ireland), Eoin B Hunt, Susan Lapthorne, Chris Ward, Joseph Eustace, Paul M Byrne, Barry J Plant, John Macsharry, Desmond M Murphy

PA673
Automated chart review for assessing adherence to asthma guidelines for asthma triggers
Young J Juhn (Rochester, United States of America), Chung-Il Wi, Sungrim Moon, Julie Porcher, Hee Yun Seol, Bong Seok Choi, Euijung Ryu, Barbara Yawn, Miguel Park, Sunghwan Sohn

PA674
A nurse phone educational program enhances health status of asthmatic patients after an emergency department admission for acute exacerbation
Gilles Mangiapan (Creteil, France), Thibaut Desmettre, Anne Prud'Homme, Jean Charles Dalphin, Bruno Stach, Sergio Salmeron, Patrick Plaisance

PA675
Lower Urinary Tract Symptoms (LUTS) in Male Asthma Patients
Jae Ho Chung (Incheon, Republic of Korea), Chang Hoon Han

PA676
MARTE: an observational study on clinical and sociodemographic characteristics of asthmatic patients receiving maintenance and rescue treatment in Spain
Alfonso Torrego Fernandez (Barcelona, Spain), Jesús Molina Paris, Juan Antonio Trigueros Carrero, Diego González-Segura Alsina, Javier Domínguez Ortega

PA677
Analysis of the findings on paranasal sinuses and chest computed tomography in patients with severe asthma
Ester Zamarron De Lucas (Madrid, Spain), Juan Fernández-Lahera Martínez, David Romero Ribate, Carlos Villasante Fernández-Montes, Pilar Barranco Sanz, Santiago Quirce Gancedo, Rodolfo Álvarez-Sala Walther

PA678
Effects of prebiotics and synbiotics on asthma outcomes: a systematic review and meta-analysis
Neil Williams (Nottingham (Nottinghamshire), United Kingdom), Elijas Gricius, Paul Lester, Michael Johnson, Graham Sharpe

PA679
Modern approaches to assessment of disability in asthma in adults using the DALY indicator
Ana Moscovciuc (Chisinau, Republic of Moldova), Konstantin Yavorsky, Irina Sincarenco, Valentina Bolotnikova, Mikhail Lukyan

PA680
Efficient and practical management for checking inhalation technique and discussing medication adherence before treatment step-up in uncontrolled asthma
Masaya Takemura (Nagoya, Japan), Masayuki Nishio, Kensuke Fukumitsu, Norihisa Takeda, Takamitsu Asano, Yoshihiro Kanemitsu, Kosho Yoshikawa, Akio Niimi

PA681
Inhalation parameters from an integrated electronic multidose dry powder inhaler (eMDPI)
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom), Dinesh Saralaya, Anil Shenoy, Sophie Toor, Andrew Scally, Enric Calderon, Guilherme Safioti

PA682
Histamine challenge test assessed by the ratio of diaphragm EMG recorded from surface electrodes to tidal volume
Yingmei Luo (Guangzhou (Guangdong), China), Bai-Ting He, Ying-Xin Wu, Joerg Steier, Caroline Jolley, John Moxham, Michael I Polkey, Yuanming Luo

PA683
Does adding the Generalised Anxiety Disorder (GAD) questionnaire and Patient Health Questionnaire-9 (PHQ-9) to routine outpatient activity provide more information on the presence of anxiety and depression in asthma?
Kimberley Barber (Liverpool (Merseyside), United Kingdom), Ryan Robinson, John Blakey

PA684
Cluster analysis identifies distinct clinical phenotypes with poor treatment responsiveness in asthma.
Smriti Bhargava (Mysore (Karnataka), India), Mahesh P.A., Amrutha D Holla, Jayaraj B.S., Praveena A.S., Ravi S, Sandhya Khurana

Chair(s): Stephen James Fowler (Preston (Lancashire), United Kingdom), Alvaro A. Cruz (Salvador (BA), Brazil), Alex Mann (London, United Kingdom)
PA685 Video education of inhaler technique for asthma control in patients with well or partly controlled asthma, compared to face-to-face education
Min Kwang Byun (Seoul, Republic of Korea), Hye Jung Park, Jae-Woo Kwon, Woo Kyung Kim, Dong-Ho Nahm, Myung-Goo Lee, Sang-Pyo Lee, Sook Young Lee, Ji-Hyun Lee, Yi Yeong Jeong, You Sook Cho, Jeong-Hee Choi, Byoung Whui Choi

PA686 Comparability of Asthma Control Test (ACT) scores between self and physician administered test.
Sabrina Genco (Catania (CT), Italy), Enrico Heffler, Claudia Crimi, Raffaele Campisi, Giovanni Paoletti, Ramona Sorrentino, Simona Strano, Nunzio Crimi

TP-03 Session 95 12:50 - 14:40
Thematic poster: Integrated care and non-pharmacological management of COPD

Disease(s) : Airway diseases, Respiratory critical care, Respiratory infections, Thoracic oncology, Interstitial lung diseases
Pulmonary vascular diseases, Respiratory infections

Method(s) : Physiology, Endoscopy and interventional pulmonology, General respiratory patient care

Chairs : Ahmed Ben Saad (Monastir, Tunisia), Carme Hernandez Carcereny (Barcelona, Spain), Wassim Labaki (Ann Arbor, United States of America), Margareta Emmter (Uppsala, Sweden)

PA687 Late Breaking Abstract - Qter® and Creatine improve functional performance in COPD patients on long-term oxygen therapy
Bartolome R. Celli Croquer (Boston, United States of America), Francesca de Blasio, Francesca Polverino, Roberta Pastorelli, Manuela Ferrario, Emil F. M. Wouters, Stefano Marinari, Fernando De Benedetto

PA688 Late Breaking Abstract - Impact of eosinophil levels on lung function and exacerbation benefits with co-suspension delivery technology budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) in COPD (KRONOS study subgroup analysis)
Leonardo Michele Fabbri (Modena, Italy), Klaus F. Rabe, Fernando J. Martinez, Gary T. Ferguson, Chen Wang, Masakazu Ichinoise, Eric Bourne, Shaile Ballal, Patrick Darken, Kiernan Deangelis, Magnus Aurivillius, Paul Dorinsky, Colin Reisner

PA689 Pre-discharge assessment and outcomes of patients commenced on short-term oxygen therapy
George Antunes (Saltburn by the sea, United Kingdom), Dalia Mudawi, Naomi Miller-Biot

PA690 Advance Care Planning in Patients with Chronic Obstructive Pulmonary Disease assessed for Long Term Oxygen Therapy
Freya Hildebrand (Coburg (VIC), Australia), Caroline Kein, Eve Denton, Souvanny Khov, Belinda Miller

PA691 Impact of long-term oxygen therapy on systemic inflammation, morphological changes of red blood cells, pulmonary hemodynamics and diaphragm function in patients with chronic obstructive pulmonary disease.
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Daria Sklyarova, Vladimir Volchkov

PA692 Oxygen alert cards versus Oxygen Alert Wrist Bands (OxyBand) in COPD
Emma Rickards (St Helens (Merseyside), United Kingdom), Dennis Wat, Adrian Mcgonigle, Diane Green, Onnor Hampson, Paul Stockton, Sarah Sibley

PA693 Follow up after end of trial: Evaluation of usage of oxygen-enriched nasal high flow treatment in COPD with chronic hypoxemic respiratory failure
Line Storgaard (Aabybro, Denmark), Ulla Möller Weinreich

PA694 COPD Management needs Hospital and Community multi-disciplinary teams to work together to optimise patient care.
Michael Apps (Brentwood, United Kingdom), Dipak Mukherjee, Syed Abbas, Jan Minter, Kiran Sanger, James Whitfield, Sue Field, Sharon Pearce, Petra Rosier, Lauren Ateli, Honoria Olympic-Anang, Carole Goodrich, Kelly-Ann Keeling, Helen Hill, Donna Carter, Tracy Gisby, Bernadette Hawkes, Sue Webb, Sue Barfield, Charlotte Wigmore, Jo Downham, Mark Haigh, Paul Bannister, Irene Young, Anna Kopacz, Jo Peacock

PA695 Mortality causes in patients with advanced lung disease in long term oxygen therapy
Thulio Marquez Cunha (Uberlandia (MG), Brazil), Vinicius Oliveira, Tatiane Martins Lima Crosara Bastos, Isabela Bodaczny Taliberti, Thales Souza Campos Rodrigues, Robison Sabino Silva, Luiz Ricardo Goulart Filho, Michelle Godoy Canazza Damian, Maria Aparecida Gonçalves Gomes

PA696 Improvements in activation for self-management in patients with chronic airway disease via the COPDnet diagnostic trajectory in secondary care; a pilot study.
Jeanine C. Antons (Molenhoek, Netherlands), Noortje Koolen, Heleen Niet Van Der, Bas Robberts, Netty Plat, Bram Borst Van Den, Hanneke Helvoort Van, Jeroen Hees Van, Alex Hul Van 'T

PA698 Effect of endoscopic lung volume reductions in patients with emphysema – a single center experience
Florent Baty (St. Gallen, Switzerland), Tino Schneider, Kei Kozu, Lukas Kern, Martin Brutsche

ERS 2018 International Congress
DETAILED PROGRAMME
SUNDAY 16 SEPTEMBER, 2018

12.09.2018
PA699  Telehealth care vs. standard care in COPD – an international randomised controlled trial (interim analysis)
Frank Rassouli (St. Gallen, Switzerland), Florent Baty, Daiana Stolz, Malcolm Kohler, Robert Thurnheer, Thomas Brack, Christian Kähler, Michael Tamm, Sandra Widmer, Ursina Tschirren, Martin H Brutsche

PA700  Effects of an early rehabilitation program in COPD exacerbation, after an hospital discharge, one-year follow-up
Filipe Gonçalves Dos Santos Carvalho (Barcelona, Spain), Carlos Martinez Rivera, Maria Boldó, Ignasi Garcia Olivé, Alicia Marin Tapia, Aida Muñoz Ferrer, Zoran Stojanovic, Alicia Francesco Vicente, Sonia Baez Mená, Ana Belén Moreno Garcia, Leire Mendiluce Ochandorena, Maria Jose Dura Mata, Juan Ruiz Manzano

PA701  The cost-effectiveness of physical activity in the management of COPD patients in the UK
Mafalda Ramos, Mark Lamotte, Laetitia Gerlier, Per Svangren, Anna Miquel Cases, John Haughney

PA702  A retrospective review of MDT mortality prediction for patients with COPD using The Gold Standard Framework.
Paul Marsden (Manchester (Greater Manchester), United Kingdom), Nazra Hussain, Anne Boardman, Sharada Gudur, Zoe Walker Frost

PA703  BACTERIAL IMMUNOTHERAPY IN COPD AND/OR BRONCHIECTASIS FREQUENT EXACERBATOR PATIENTS. A RETROSPECTIVE STUDY.
Jose Belda (valencia, Spain), Ivan Arroyo-Fernandez, Ruben Arroyo-Fernandez, Frederic Tatay-Soler

PA704  A simple multifunctional tool for integrated care of COPD
Kay Roy (St Albans (Hertfordshire), United Kingdom), Audrey Marau, Lawrence Gora, Jenny Shrestha, Glenda Esmond

PA705  Evaluation of ‘care bundles’ as a means of improving hospital care for patients with acute COPD: a case-study approach
Katherine Morton (Oxford (Oxfordshire), United Kingdom), Alison Shaw, James Calvert, Melanie Chalder, Emily Sanderson, Padraig Dixon, Stephanie Macneil, Will Hollingworth, Sue Jenkins, Chris Metcalfe, Anna King, Sarah Purdy

PA706  Innovating the treatment of COPD exacerbations: a phone tele-system to increase Action Plan adherence
Raquel Farias (Montréal (QC), Canada), Maria Fernanda Sedeno, Pei Zhi Li, Alexandre Joubert, Isabelle Drouin, Rita Abimarovoun, Isabelle Ouellet, Danielle Beauchère, Mira Abou Rjeili, Meena Patel, Jean Bourbeau

PA707  Usefulness of nutrition screening tools for sarcopenia screening with chronic obstructive pulmonary disease in JAPAN
Hiroyuki Nakamura (kagawa, Japan), Nobuyuki Kita, Kiyotaka Tanimoto, Chika Kunikata, Teruhiisa Taoka

PA708  Association between endothelial dysfunction and nutrient consumption in patients with chronic obstructive pulmonary disease and heart failure.

PA709  A comparison of muscle dysfunction in patients with chronic obstructive pulmonary disease and healthy subjects
Rachida Djebaili (Batna, Algeria), Radia Heddane, Rania Direche, Mounira Oulmi, Abelmadjid Djebar

PA710  Nutrition status and comorbidities in patients with severe COPD.
Eva Voláková (Oломouc, Czech Republic), Jaromír Zatloukal, Vladimir Koblízek, Michal Svoboda, Patrice Popelkova, Marek Plutinsky, Kristian Brat, Barbora Novotna, Petr Safarnek, Tomas Dvorak, Dmitry Rakita, Milada Sipkova, Rastislav Simek, Eva Kociva, Michal Kopecký, Lucie Heribánová, Pavlína Musilova, Blanka Snelerova, Zuzana Liptakova, Katerina Neumannova, Zuzana Zbozinkova

PA711  Does Nutritional Risk Screening 2002 correlate with dyspnea status of patients with GOLD stage 3-4 chronic obstructive pulmonary disease: a Cohort study.
Fatma Bodur Yildirim (Ankara, Turkey), Nalan Öğan, Banu Süzen, Ayse Baha, Evrim Eylem Akpınar

PA712  Nutritional status changing in COPD – Follow-up Platino Study
Oliver Augusto Nascimento (São Paulo (SP), Brazil), Mariana Gazzotti, Ana Paula Luize, Graciane Moreira, Beatriz Manzano, Ana Maria Menezes, Rogério Perez-Padilla, Adriana Muiño, Maria Victoria Lopez-Varela, Maria Montes De Oca, José R. Jardim
Body composition in chronic obstructive pulmonary disease and heart failure

Luis Hernández-Urquieta (Mexico City, Mexico), Cylo Chávez-Méndez, Arturo Orea-Tejeda, Dulce González-Islas, Rocio Sanchez-Santillan, Rafael Hernández-Zenteno, Giselle Dávila-Saíd, Carmen Olivo-Villalobos, Viridiana Peláez-Hernández, Karla Balderas-Muñoz, Monica Rivera-Rodríguez, Luis Castillo-Aguilar

Correlation between peritoneal fat and mid-thigh fat in chronic respiratory patients

Laura Ciobanu (Iasi, Romania), Vasile Maciuc

Role of the fat and muscle tissues in formation of the quality of life in COPD patients.

Vitalii Poberezhts (Vinnytsia, Ukraine), Yuriy Mostovoy, Hanna Demchuk

Sleep duration is an independent determinant of metabolic impairment in COPD patients

Nikhil Sahdev (LUTON (Bedfordshire), United Kingdom), Daniel Burrage, Claire Wells, Emma Baker

Associations between variations of adipokines, cytokines and body composition in patients with chronic obstructive pulmonary disease in one year

Suzana Erico Tanni (Botucatu (SP), Brazil), Carolina Mesquita, Robson Prudente, Caroline Knaut, Estefânia Franco, Irma Godoy

Does vitamin D deficiency worsen the hospital outcome in patients with acute exacerbation COPD?

Mohamed Abdelghany (Assiut, Egypt), Hoda Makhlouf, Aliae Abdrabou, Amal Abdelazeez

Correlation between being underweight and the severity of COPD

lobna Loued (MONASTIR, Tunisia), Sonia Toujani, Abir Hedhli, Sana Cheikhrouhou, Meriem Mjid, Yassine Ouahchi, Samira Meraï

Sedentary behaviour is associated with worse cardiometabolic profiles in COPD patients, irrespective of moderate intensity physical activity

Daniel Burrage (London, United Kingdom), Claire E. Wells, Emma H. Baker

Sarcopenia index correlates with COPD clinical outcomes.

Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Beatriz Abascal Bolado, Juan Agüero Calvo, Begoña Durantez, Milagros Ruiz De Infante, Armando Raíl. Guerra, MariÁ Teresa García-A-Unzueta, Bernardo Alio LaviÁ, Elena Arnaiz-García

Clinical outcome and cost-effectiveness of 1-year nutritional intervention program in COPD

Martijn van Beers (Maastricht, Netherlands), Maureen P.M.H. Rutten-Van Molken, Coby Van De Bool, Melinde Boland, Stef P.J. Kremers, Fris M.E. Franssen, Ardy Van Helvoort, Harry R. Gosker, Emiel F. Wouters, Annemie M.W.J. Schols

Change of inhaled medications during hospital admissions for acute exacerbation of COPD

Victoria Ridley (London, United Kingdom), Emma Barter, Claire Davey, Richa Singh, Jane Simpson

Association of cardiovascular risk with inhaled long-acting anti-muscarinic antagonists in COPD patients with impaired renal function

Yi-Ching Cheng (Douliou, Taiwan), Hung-Chueh Peng, Yen-Fu Chen, Chung-Yu Chen

Evaluation of vasomotor substances in COPD patients

Olga Arkipkina (Kharkiv, Ukraine), Olga Arkipkina

Systemic inflammatory profile of patients with acute coronary syndrome and concomitant COPD

Sara Soave, Marco Contoli, Marianna Padovani, Barbara Palazzi, Rita Pavasini, Gianluca Campo, Alberto Papi
PA729 Can BODE index identify right ventricular dysfunction in COPD patients?  
Praveen Kumar Venishetty (WARANGAL, India)

PA730 Diurnal arterial stiffness in patients with chronic obstructive pulmonary disease of varying severity  
Gulnara Dolishnyaya (Saratov, Russian Federation), Nina Karoli, Andrey Rebrov

PA731 Determinants of aortic stiffness compared to level of obstruction and staging of COPD  
Divo Ljubičić (Zagreb, Croatia), Neven Tudorić

PA732 Aortic stiffness in patients with COPD compared to two control groups of smokers and nonsmokers  
Divo Ljubičić (Zagreb, Croatia), Neven Tudorić, Dario Dilber

PA733 Integrity of Membrane Cell as a Risk Factor of Longer Length of Stay in patients with Cardiopulmonary Disease  
Dulce Gonzalez (Ciudad de Mexico, Mexico), Arturo I Orea-Tejeda, Cllyo Chávez-Méndez, Giselle Dávila-Said, Carmen Olivo-Villalobos, Rocío Sánchez-Santillán, Viridiana Peláez-Hernández, Karla Balderas-Muñoz, Rogelio Peréz-Padilla, Monica Rivera-Rodriguez, Luis Hernández-Urqueta

PA734 Comorbidity of atherosclerotic diseases in COPD patients.  
Vera Nezvorova (Vladivostok (Primorsky Krai), Russian Federation), Natalia Zakharchuk, Elena Kondrashova, Elena Gonchar

PA735 Acute vascular diseases: Prompting admissions and readmissions in COPD patients  
Rishabh Kochar (Bikaner (Rajasthan), India), Vishakha Mittal, Atul Goel, Renu Dabas

PA736 Acute cor pulmonale during acute exacerbations of COPD: a new phenotype?  
Déborah Boyer (Rouen, France), Elise Artaud-Macari, Dominique Schleifer, David Delacour, Zoubir Djerada, Jean-Nicolas Dacher, Antoine Cuvelier

PA737 Evaluation of a new cardiac arrhythmias predictor in patients with COPD  
ASMA SAIDANE (TUNIS, Tunisia), Jihene Ben Ammar, Manel Ben Hlima, Sana Ouali, Mohamed Slim Mourali, Besma Dhahri, Saloua Azzabi, Hela Cherif, Mohamed Ali Baccar, Hichem Aouina

PA738 Safety of nebivolol and bisoprolol in patients (pts) with COPD and stable angina.  
Oleksandr Fesenko (Slobozhanske, Ukraine), Kateryna Bogatska

PA739 Cardiovascular safety of fixed dose combination long acting bronchodilators in stable patients with Chronic Obstructive Pulmonary Disease.  
Sudip Ghosh (Leicester (Leicestershire), United Kingdom), Martin Bridge, Nabeel Shahid, Arwell Jones, Noel O'Kelly

PA740 Utility of electrical bioimpedance by phase analysis to predict the type of heart failure in patients with COPD  

PA741 Platelet activity in patients with COPD and concomitant arterial hypertension  
Katelyna Gashynova (Dnipro, Ukraine), Olena Kovalenko, Viktoriya Rodionova, Liudmyla Glyniana

PA742 Safety and benefits of beta-blockers in chronic obstructive pulmonary disease: a review of current evidence and meta-analysis  
Ralph Elvi Villalobos (Manila, Philippines), Irene Rosellen Tan, Ruth Marie Divinagracia

PA743 COPD patients require more health care than heart failure patients  
Lennart H. Persson (Linkoping, Sweden), Leili Lind, Johan Lyth, Daniel Karlsson, Ann-Britt WiréHn

PA744 Risk factors for asymptomatic atrial fibrillation in patients with COPD  
Elena Samorukova (Moscow, Russian Federation), Elena Leonova, Tatiana Adasheva, Vladimir Zadionchenko, Andrei Malyavin, Sergey Pavlov

PA745 Increased risk of atrial fibrillation in patients with acute exacerbation of chronic obstructive pulmonary disease and sinus rhythm  
Aria Hemat (Moenchengladbach, Germany), Patrick Müller, Christian Jung, Stefan Krüger, Stefanie Keymel

TP-06

Session 98  12:50 - 14:40

Thematic poster: COPD around the world

Disease(s) : Airway diseases, Respiratory infections, Thoracic oncology, Respiratory infections

Method(s) : Cell and molecular biology, Epidemiology, Public health, General respiratory patient care

Chairs : Therese Lapperre (København NV, Denmark), Fabrizio Luppi (Spilamberto (MO), Italy), Miriam Barrecheugren Fernandez (Barcelona, Spain), Marija Vukoja (Sremiska Kamenica, Republic of Serbia)
<table>
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<tr>
<th>PA746</th>
<th>A cross-sectional study in severe COPD patients in the Middle East and Africa (MEA): Symptoms variability and quality of life</th>
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<tbody>
<tr>
<td></td>
<td>Nurdan Köktürk (Ankara, Turkey), Medhat Soliman, Amr Albanna, Richard Van Zyl Smit, Elmas Malvolti, Dina Ahmed</td>
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<tr>
<th>PA747</th>
<th>A cross-sectional study in severe COPD patients in the Middle East and Africa (MEA): Methodology and patients' profile</th>
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<td></td>
<td>Ashraf Alzaabi (Abu Dhabi, United Arab Emirates), Hakan Gunen, Alev Gurgun, Nouredden Zeidouni, Mousa Khadakah, Wael Abuharbid</td>
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<th>PA748</th>
<th>Evaluation of Slow Vital capacity and Forced Vital Capacity in patients with COPD</th>
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<td></td>
<td>Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Anastasiya Stupnytska</td>
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<tr>
<th>PA749</th>
<th>Diagnosis of COPD in patients with multidrug-resistant tuberculosis</th>
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<td>Halina L. Baradzazina (Minsk, Belarus)</td>
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<th>PA750</th>
<th>Adherence to GOLD guidelines practices in the management of COPD in Tunisia</th>
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<td></td>
<td>Aissa Sana (Sousse, Tunisia), Knaz Asma, Benzarti Wafa, Gargouri Imen, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Benzarti Mohamed</td>
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<tr>
<th>PA751</th>
<th>Disease specific knowledge in Tunisian COPD patients</th>
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<tr>
<td></td>
<td>Mouna Ben Khelifa (Sousse, Tunisia), Rania Kaddoussi, hadhemi rejeb, Imen Ben Said, Seri Jdidi, Wafa Benzarti, Sana Aissa, Imen Gargouri, Ahmed Abdelghani, Abdelhamid Garrouche, Abdelaziz Hayouni, Mohamed Benzarti</td>
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<tr>
<th>PA752</th>
<th>Evaluation of the demographics, diagnosis and monitoring, management, device usage and adherence among COPD patients: A survey of doctors in Nepal</th>
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<tr>
<td></td>
<td>Ramesh Chokhani (Kathmandu, Nepal), Narendra Bhatta, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay</td>
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<tr>
<th>PA753</th>
<th>Characterization of patients with severe COPD</th>
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<tr>
<td></td>
<td>Rosa Malo De Molina Ruiz (Madrid, Spain), Cristina Esquinas, Carlos Martinez Rivera, Eduardo Marquez Martin, Elsa Naval Sendra, Manuel Valle Falcones, Eva Cabrera Cesar, Ana Boldova Loscertales, Javier Callejas, Marc Miravitlles</td>
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<th>PA754</th>
<th>Determinants of dyspnea in COPD patients: the French PALOMB cohort</th>
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<td>El-hassane Ouenalaya (Mergnac, France), Emilie Berteaud, Alain Bernardy, Jean-Michel Dupis, Marielle Sabatini, Lauret Falgue, Frédéric Le Guillou, Cecilia Nocent-Ejnant, Laurent Nguyen, Anoag Oziér, Julien Casteigt, Mathieu Molimard, Chantal Raherison-Senjen</td>
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<th>PA755</th>
<th>The distribution of COPD in general practice using three different GOLD classification</th>
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<tr>
<td></td>
<td>Irina Salakhova (Kazan', Russian Federation), Alexander Vizel, Adelya Vafina, Irina Vizel</td>
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<th>PA756</th>
<th>Opportunistic screening for COPD in primary care - A pooled analysis of 6.710 symptomatics smokers and ex-smokers</th>
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<td>Oliver Djurhuus Tupper (København NV, Denmark), Andreas Katsimigas, Peter Kjeldgaard, Charlotte Suppli Ulrik</td>
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<th>PA757</th>
<th>Prevalence of COPD in heroin smokers attending treatment centres assessed using LLN and relationship to drug consumption</th>
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<td>Paul Walker (Wirral (Merseyside), United Kingdom), Hassan Burhan, Ryan Young, Tara Byrne, Rob Peat, Jennifer Furlong, Sue Renwick, Tristan Elkin, Sandra Oelbaum</td>
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<tr>
<th>PA759</th>
<th>EPIDEMIOLOGICAL AND CLINICAL CHARACTERISTICS OF THE CANCER OF PULMON WITH COPD IN OUR HEALTH AREA IN THE YEARS 2016-2017</th>
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<tr>
<td></td>
<td>Ascension María Vilchez Parras (Torredelcampo (Jaén), Spain), Maria López López, Gerardo Pérez Chica, Celía Lacárcez Bautista</td>
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<th>PA760</th>
<th>COPD in elderly patients – an analysis of the DACCORD observational study</th>
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<td></td>
<td>Heinrich Worth (Fürth, Germany), Roland Buhl, Carl-Peter Criece, Peter Kardos, Nadine Lossi, Claus Vogelmeier</td>
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<th>PA761</th>
<th>Relation between gender and survival among real-life COPD patients</th>
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<td></td>
<td>Nicolas Roche (Paris, France), Maeva Zysman, Isabelle Court-Fortune, Graziehla Binchault-Rabin, Pascale Nesme-Meyer, Pascale Surpas, Gaetan Deslée, Thierry Perez, Roger Escamilla, Gilles Jebrak, Pascal Chanez, Jean-Louis Paillasseur, Denis Caillaud, Pierre-Régis Bugiel</td>
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<th>PA762</th>
<th>Non-smoking COPD: an overlooked systemic disease, modifiable by physical activity based on studying a cohort of 386,304 subjects</th>
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<td>Chin-Chung Shu (Taipei, Taiwan), Ta-Chen Su, June Han Lee, Min Kwang Tsai, Chi-Pang Wen</td>
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<th>PA763</th>
<th>Characteristics of &quot;frequent exacerbators&quot; in mild to moderate COPD patients.</th>
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<td>Hye Sook Choi (Gyeongju, Republic of Korea), Young Bum Park, Kwang Ha Yoo, Chin Kook Rhee</td>
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<th>PA764</th>
<th>Bacterial structure of sputum from patients with exacerbations of COPD in a single medical center in Central Kazakhstan</th>
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<td>Aigerim Yergaliyeva (Astana, Kazakhstan), Nelya Bisenova</td>
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**PA765** Should we be doing more to address cardiovascular risk in patients who have COPD? Learning from a quality improvement project at Basildon Hospital.
Oscar Atkins (Bristol (Avon), United Kingdom), Marcus Pittman

**TP-07**  
**Session 99**  
**12:50 - 14:40**

**Thematic poster: Pharmacological management of COPD**

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<th>Disease(s)</th>
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<th>Respiratory infections</th>
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<td>Method(s)</td>
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<td>Public health</td>
<td>Surgery</td>
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<tr>
<th>Chairs</th>
<th>Nicoletta R. Morelli (Den Haag, Netherlands), Ioannis Bonovolias (Thessaloniki, Greece), Luiza Helena Degani-Costa (São Paulo (SP), Brazil), Michael Tamm (Basel, Switzerland)</th>
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| PA766       | Late Breaking Abstract - Impact of ICS/LABA and LABA/LAMA FDCs on lung function and exacerbation of COPD: a network meta-analysis  
Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy), Luigino Calzetta, Paola Rogliani, Francesco Blasi, Stefano Centanni, Claudio Micheletto, Andrea Rossi, Mario Cazzola |
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| PA767       | Pseudomonas eradication management in COPD: results from a single centre  
Charlotte Wigston (Oxford (Oxfordshire), United Kingdom), Maaz Rana, Hussein Chreif, Katie Jeffery, Mona Bafadhel |
|-------------|-------------------------------------------------------------------------------------------------------------------|

| PA768       | Efficacy and safety of moxifloxacin in the outpatient treatment of exacerbations of chronic obstructive pulmonary disease  
Jordan Minov (Skopje, FYROM (Macedonia)), Jovanka Karadzinska-Bislimovska, Tatjana Petrova, Kristin Vasilevska, Saso Stoleski, Dragan Mijakoski |
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| PA769       | Risk of pneumonia and exacerbations of chronic obstructive pulmonary disease(COPD) with inhaled corticosteroid (ICS) use: a Singapore perspective  
Kenneth Koh (Singapore, Singapore), Pei Yee Tiew, Jessica Han Ying Tan, Rui Ya Soh, Karen Li Leng Tan, Thun How Ong, Mariko Si Yue Koh, Sanjay Haresh Chotirmall, Therese Sophie Lapperre |
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| PA770       | Long-term use of inhaled glucocorticoids in stable chronic obstructive pulmonary disease patients and risk of diabetes mellitus: systematic review of the literature  
Fabio Arpinelli (Verona (VR), Italy), Paolo Ruggeri, Giuseppe Girbino, Gaetano Caramori |
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| PA771       | Audit of Duration of Corticosteroid Treatment in Acute Exacerbations of COPD  
Ko Ko Naing (Preston, United Kingdom), Suman Paul, Paul Marsden |
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| PA772       | Investigation of breathing parameters of COPD patients inhaling through three different DPI devices  
Annamária Szipőcs (Győr, Hungary), Árpád Farkas, János Varga, Zsuzsanna Szalai |
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| PA773       | The effect preoperative intervention with long-acting bronchodilator for untreated patients with obstructive lung disease  
Yu Mikami (Tokyo, Japan), Taisuke Jo, Hirotaka Matsuzaki, Keisuke Hosoki, Minako Saito, Taro Ishimori, Yasuhiro Yamauchi, Yutaka Yatomi, Daiya Takai, Takahide Nagase |
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| PA774       | Short-acting bronchodilators for in-hospital management of acute exacerbation of COPD: Systematic Review  
Zoe Kopsaftis (Woodville South, Australia), Nur Sulaiman, Kristin Carson, Oliver Mountain, Paddy Phillips, Brian Smith |
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| PA775       | Efficacy and safety of budesonide/formoterol fumarate dihydrate metered dose inhaler (BFF MDI) using co-suspension delivery technology compared to monocomponents and an active comparator in COPD  
Gary T. Ferguson (Farmington Hills, United States of America), Alberto Papi, Antonio Anzueto, Edward M. Kerwin, Christy Cappelletti, Elizabeth A. Duncan, Jack Nyberg, Paul Dorinsky |
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| PA776       | Effect of erdosteine in moderately severe COPD patients  
Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom), Clive Page, Roberto W. Dal Negro, Giovanni Fontana, Martin Iversen, Arriko F Cicero, Edoardo Pozzi, Jadwiga A. Wedzicha |
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| PA777       | Observational study of adherence to indacaterol/glycopyrronium 110/50µg o.d. (IND/GLY) in COPD  
Nicolas Roche (Paris, France), Vincent Le Gros, Mathilde Pouriel, Laurent Decuyper, Chantal Raherison |
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| PA778       | Multiple ascending inhaled doses of AZD8871 in healthy males  
Victor Balagué (Barcelona, Spain), Muna Albayat, Carol Asbury, Lali Jimenez, Ulrika Wahlbry Hamren, Beatriz Seoane, Marie-Pierre Malice, Alejandra Lei, Ajay Aggarwal, Ioannis Psalidas, Arnaud Mailleux (arnaud.mailleux@inserm.fr / INSERM U1152, Paris) |
|-------------|-------------------------------------------------------------------------------------------------------------------|

| PA779       | Comparative assessment of hemodynamic parameters in patients with COPD and CHD treated with different groups of bronchodilators.  
Iuliia Kharchenko (Kharkiv, Ukraine), Olena Krakhmalova, Alona Tokarieva |
|-------------|-------------------------------------------------------------------------------------------------------------------|
Switch from LABA+ICS to a LABA/LAMA combination in symptomatic women with COPD – an analysis of the observational DACCORD study
Peter Kardos (Frankfurt am Main, Germany), Roland Buhl, Carl-Peter Criere, Nadine Lossi, Claus Vogelmeier, Heinrich Worth

Inhaled anticholinergics affect the heart rate recovery in stable COPD patients
Wei Yuan (Beijing, China), Shan Nie, Haoyan Wang, Qiu Fen Xu, Nan Jia

Effects of the long term treatment with Fenspiride upon clinical manifestations of chronic obstructive pulmonary disease
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Sergiu Matcovschi, Nelea Ghicavii, Tatiana Dumitras, Eudochia Terna, Nicolae Bodrug, Doina Barba

Evaluation of adequacy of pharmacological treatment in relation to severity in patients with chronic obstructive pulmonary disease (COPD) and their clinical correlations.
Suzana Erico Tanni (Botucatu (SP), Brazil), Bruna Morais, José Zucchi, Estefânia Franco, Thyego Santos, Thais Garcia

Effect of benzodiazepines in hospital readmissions and mortality in patients with chronic obstructive pulmonary disease
Jose Rafael Teran Tinedo (Madrid, Spain), Daniel Eduardo López Padilla, Alicia Oliva Ramos, Lourdes Vicent Alaminos, Luis Puente Maestu

Risk of pneumonia or death in COPD outpatients treated with different lengths of corticosteroids
Pradeesh Sivapalan (Hellerup, Denmark), Daniel Bech Rasmussen, Truls Sylvan Ingebrigtsen, Rikke Serensen, Camilla Bjørn Jensen, Kristine Højgaard Allin, Freja Stehr Holm, Josefin Eklof, Karin Arnbryster, Jens Ulrik Stehr Jensen

Thematic poster: Management of bronchiectasis and large airway diseases

Exercise capacity can predict exacerbations and hospitalizations in a 1-year follow up in non-cystic fibrosis bronchiectasis adults
Samia Rached (São Paulo (SP), Brazil), Rejane Agnelo Silva De Castro, Anderson Alves De Camargo, Rodrigo Athanazio, Alberto Cukier, Simone Dal Corso, Rafael Stelmach

Optimization of algorithms of care of patients with infectious extension of bronchiectasis
Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova

Impact of Anemia On Clinically Stable Adult Non-cystic Fibrosis Bronchiectasis
Elif Yelda Ozgun Niksarlioglu (Istanbul, Turkey), Mehmet Atilla Uysal, Burcu Yiğitbaş, Lutfiye Kılıç, Gungör Çamsar

HEALTH RELATED QUALITY OF LIFE (HRQoL) AMONG PATIENTS WITH NON CYSTIC FIBROSIS BROCHIECTASIS (BE) IN STABLE PHASE
Kateryna Gashynova (Dnipro, Ukraine), Gulnar Nagiieva, Tetiana Pertsava, Valerii Dmytrychenko

Progress, update and challenges faced in establishing the first registry for bronchiectasis in Australia
Enna Stroil-Salama (Milton, Australia), Simone Visser, Janet Moore, Lucy Morgan

Objective CT measurements of the bronchovascular bundle in smokers with bronchiectasis
Alejandro A Diaz (Arlington, United States of America), Yuka Okajima, Diego Maselli, Wei Wang, Andrew Yen, Gregory Kinney, Raul San Jose Estepar

Small Airway Imaging Abnormalities in Smokers with Bronchiectasis
Alejandro A Diaz (Arlington, United States of America), Carlos Martinez, Wassim Labaki, Andrew Yen, Maselli Diego, Yuka Okajima, Greg Kinney, Jeffrey Curtis, Raul San Jose Estepar, Ella Kazerooni, Brian Ross, Galban Craig, Fernando Martinez, Meilan Han

Diagnostic contribution of PICADAR score in etiological evaluation of patients with bronchiectasis of unknown etiology
Erkan Çakir (Istanbul, Turkey), Fatouma Khalif Abdillahi, Ayse Ayyit Atabek, Lina Alshadfan, Hakan Yazan, Faraz Talebazadeh, Mustafa Nursoy, Ali Toprak
Bronchiectasis Quality Improvement Project
Alice Gray (Birmingham (West Midlands), United Kingdom), Peter Gimson, Mathuramina Thiraviyarajah, Maria Mal, Harvey Davies, Yifei Wang, Shaun Thein, Manpreet Kaur Saggau, Sarah Coulter-Brophy, Farrukh Rauf, Anna-Karin Larsson Callerfelt (anna-karin.larsson_callerfelt@med.lu.se / Lung Biology, Experimental Medical Science, Lund University,Lund), Johan Malmstrom (johan.malmstrom@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University,Lund), Emma Ahman (emma.ahman@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University,Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology, Experimental Medical Science, Lund University,Lund)

National survey on management of adult bronchiectasis by respiratory physicians in Belgium
Natalie Lorent (Leuven, Belgium), Kathleen Schoovaerts, Pieter Goeminne, Lieven Dupont

The impact of traditional nutrition on reduction of the chronic nonobstructive bronchitis risk in the indigenous peoples living in tundra of the Arctic zone in Western Siberia, Russia
Irina Protasova (Nadym (Yamal-Nenets), Russian Federation), Sergey Andronov, Andrei Lobanov, Andrei Popov, Lilia Lobanova, Ruslan Kochkin, Elena Bogdanova

Does continuous positive airway pressure (CPAP) improve the exercise capacity of adults with tracheomalacia?
Elizabeth Smith (Wythenshawe (Manchester), United Kingdom), Nigel Clayton, Siddiq Pulakal, Stephen Fowler, Robert Niven

Prophylactic azithromycin in patients with primary ciliary dyskinesia.
Alix Massiot (Levallois Perret, France), Aline Tamalet, Nicole Beydon, Estelle Escudier, Annick Clement, Harriet Corvol, Guillaume Thouvenin

Risk factors for chronic bronchitis in indigenous inhabitants of the Arctic zone in Western Siberia, Russia
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Alexandr Emelyanov, Andrei Popov, Lilia Lobanova, Ruslan Kochkin, Elena Bogdanova, Irina Protasova

Characterization of pediatric patients diagnosed with post-infectious bronchiolitis obliterans 2,600 meters above sea level.
Ingrid Gomez (Bogota, Colombia), Olga Fuquen, Diana Echevery, Margarita Pedraza, Diana Estrada, Angela Soler, Patricia Panqueva Centanaro

Neuro-psychological adaptation of patients with chronic bronchitis in Arctic conditions
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Tatiana Popova, Vladimir Kulganov, Andrei Lobanov

Impact of improvement of environment on dynamics of chronic bronchitis disease in the indigenous peoples of the Arctic zone in Western Siberia, Russia
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Alexandr Emelyanov, Andrei Popov, Lilia Lobanova, Ruslan Kochkin, Elena Bogdanova, Irina Protasova

NON-CYSTIC FIBROSIS (CF) BRONCHIECTASIS: A 5-YEAR RETROSPECTIVE STUDY WITH A FOCUS ON PATIENTS WITH PRIMARY IMMUNODEFICIENCIES (PID)
Hélène Goussault (Saint-Cloud, France), Emilie Catherinot, Nizar Mahlaoui, Colas Thachakian, Hélène Salvador, Alexandre Chabrol, Elisabeth Rivaud, Marie-Laure Chabi, Alain Fischer, Felipe Suarez, Olivier Lortholary, Philippe Devillier, Louis-Jean Couderc

One year follow-up of respiratory health outcomes in adult patients with non-Cystic Fibrosis Bronchiectasis
Berrin Ceyhan (Istanbul, Turkey), Melahat Bekir, Schnaz Olgun Yildizeli, Derya Kocakaya

Thematic poster: Management of chronic cough and respiratory muscle dysfunction

Disease(s) : Sleep and breathing disorders Airway diseases Respiratory infections Thoracic oncology Respiratory infections

Method(s) : Surgery Cell and molecular biology Endoscopy and interventional pulmonology General respiratory patient care

Chairs : Mohankumar Thekkkinkattil (Coimbatore (Tamil Nadu), India), Laura Fregonese (London, United Kingdom), Gian Galeazzo Riario Sforza (Milano (MI), Italy), Francesco Blasi (Milan, Italy)

Late Breaking Abstract - Benefits of a low-frequency airway clearance technology in non-CF patients with bronchiectasis
Katarzyna Iwan (Warszawa, Poland), Dorota Klatka, Agata Gladzka, Laurent Morin, Pawel Sliwinski

Treatment of diaphragmatic paralysis using an expanded surgical protocol: review of the largest worldwide experience
Francesco Gargano (Shrewsbury, United States of America), Matthew Kaufman, Thomas Bauer, Reza Jarrahy

Correlation between high salivary pepsin concentration and chronic pharyngitis.
Rachel Hodgson (Beverley, United Kingdom), Rachel Hodgson, Quiping Wang, Xiup Wang, Peter Dettmar
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<th>Effects of trumpet playing on lung function – a case-control study</th>
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<td>Lia Studer (Basel, Switzerland), Desiree Schumann, Aline Stalder-Siebeneichler, Michael Tamm, Daiana Stolz</td>
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<th>PA809</th>
<th>Adenoid cystic carcinoma of trachea masked like asthma</th>
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<td>Ventsislava Pencheva Genova (Sofia, Bulgaria), Tzanko Mondeshki, Bilyana Stancheva, Daniela Petrova, Radoslav Bilyukov, Ognian Georgiev, Tzvetan Minchev, Daniela Krasimirova, Sevda Naydenska</td>
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<th>PA810</th>
<th>Comparison of arterial and venous blood gases in cases with obesity hypoventilation syndrome and neuromuscular disease</th>
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<td>Zuleyha Bingol (Istanbul, Turkey), Hicran Orucova, Tulin Cagatay, Penbe Cagatay, Gulfer Okumus, Esen Kiyan</td>
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<th>PA811</th>
<th>The effect of baseline factors on treatment response with MK-7264, a P2X3 antagonist, in refractory chronic cough.</th>
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<td>Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Lorcan P. Megarvey, Alyn H. Morice, Surinder S Birring, Michael M. Kitt, Mandel R. Sher, Andrew M. Tershakovec, Wen-Chi Wu, Zhi Jin Xu, David R. Muccino</td>
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<th>PA812</th>
<th>Congenital lobar overinflation in adults - A case series</th>
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<td>Nilab Sarmand (Heidelberg, Germany), Felix Herth, Martin Eichhorn, Daniela Gompellmann</td>
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<th>PA813</th>
<th>Pulmonary involvement in Marfan syndrome</th>
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<td>Abigél Margit Kolonics-Farkas (Budapest, Hungary), Kalman Benke, Balazs Odler, Aniko Bohacs, Zsuzsanna Kovats, Zoltan Szabolcs, Veronika Müller</td>
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<th>PA814</th>
<th>Chronic cough is associated with an increased risk of hypertension</th>
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<td>Rachel Dockry (Manchester (Greater Manchester), United Kingdom), Carmen Gibbard, Joanne Mitchell, Kimberley Holt, Douglas Corfield, Jaclyn Smith</td>
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<th>PA815</th>
<th>Are There Any Effects of Respiratory Muscle Strength on Dyspnea, Core Muscle Strength and Functional Capacity in Adolescents with Substance Use Disorder?</th>
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<td>Begum Unlu (Istanbul, Turkey), Rüstem Mustafaoglu, Rengin Demir, Arzu Ciftci, Zerrin Yigit</td>
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<th>PA816</th>
<th>Respiratory Muscle Strength in Stroke Patients and Healthy Controls: A Case Control Study</th>
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<td>Begum Unlu (Istanbul, Turkey), Abdurrahim Yildiz, Rüstem Mustafaoglu, Rengin Demir</td>
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<th>PA817</th>
<th>Increased oxidative stress of chronic cough in induced sputum</th>
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<td>Chang Youl Lee (Chuncheon, Republic of Korea), Ji Young Hong, Myung-Goo Lee, Seung Hun Jang</td>
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<th>PA818</th>
<th>Prevalence of inducible laryngeal obstruction (ILO) in unexplained chronic cough (UCC)</th>
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<td>Simon Gray (Greater Manchester, United Kingdom), Claire Slinger, Jessica Blakemore, Paul Marsden</td>
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<th>PA819</th>
<th>Home-based versus hospital monitoring of respiratory function changes in Duchenne muscular dystrophy (DMD)</th>
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<td>Christian Rumney (Basel, Switzerland), Thomas Meier, Mika Leinonen, Shabir Hasham, Thomas Voit, Oscar H Mayer, Gunnar M Buyse</td>
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<th>PA820</th>
<th>Patient characteristics and triggers eliciting refractory chronic cough</th>
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<th>PA821</th>
<th>Gastroesophageal reflux (GER)-associated cough: Effect of treatment on cellular and neurogenic inflammation</th>
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<td>Norihisa Takeda (Nagoya, Japan), Masaya Takemura, Kensi Sue Fukumitsu, Takamitsu Asano, Yoshihiro Kanemitsu, Eiji Kubota, Akio Niimi</td>
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<th>PA822</th>
<th>Patient views on new technologies to assist in the management of chronic cough</th>
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<td>Bashar Al-Sheklly (Manchester (Greater Manchester), United Kingdom), Huda Badri, Philip Turner, Jemma Haines, Jacky Smith</td>
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<th>PA823</th>
<th>Sensitisation of the cough reflex in childbearing women to mechanical stimuli: a cross-sectional study</th>
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<td>Luis Fernando Giraldo-Cadavid (Bogota DC, Colombia), Secundino Fernandez, Javier Burguete, Nelson Paez, Luis Mauricio Agudelo-Otoralora, Mario Arbulu, Ana Maria Galvis</td>
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<th>PA824</th>
<th>„The pulmonological mask” of congenital diaphragmatic hernia in children.</th>
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<td></td>
<td>Anna Bodajko-Grochowska (Lublin, Poland), Andrzej Emeryk, Ewa Markut-Miotla, Magdalena Kowalska, Anna Bednarek</td>
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**TP-10  Session 102  12:50 - 14:40**

**Thematic poster: What’s hot in rehabilitation in COPD and interstitial lung disease (ILD)?**

**Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care

**Method(s):** Public health, Physiology, Transplantation, General respiratory patient care

**Chairs:** Tanja Effing-Tijdhof (Adelaide (SA), Australia), Sabina Guler (Ried-Brig, Switzerland), Fábio de Oliveira Pitta (Londrina (PR), Brazil), Neil Greening (Leicester (Leicestershire), United Kingdom)
PA825 Creating a prediction formula for resting energy consumption of patients with COPD and ILD
KEISUKE MORIKAWA (MIE Matsusaka, Japan), Yasunori Imaoka, Hiroyuki Takemura, Kana Kitayama, Shunta Shimoda, Shogo Inaba, Haruka Kusuki, Yu Hashitsume, Momoko Hirose, Yuta Suzuki, Makoto Okada, Corina N. D’Alessandro-Gabazza, Esteban Gabazza, Osamu Taguchi, Osamu Hatají

PA826 Impact of rehabilitation on the muscle strength and exercise tolerance in patients with interstitial pneumonia under steroid therapy
Norihiko Nakamichi (Matsuyama, Japan), Tomonori Moritaka, Koji Inoue, Tomoya Katsuta, Sayaka Tachibana, Kazuhiko Saeki, Haruka Kondo, Junya Nakamura

PA827 The effectiveness of pulmonary rehabilitation in interstitial lung diseases in terms of functional markers
Mária Kerti (Budapest, Hungary), Zsuzsanna Balogh, Krisztina Kelemen, Janos Varga

PA828 Effect of an 8 week pulmonary rehabilitation program in patients with interstitial lung diseases in India.
Nicole Maria Pinto (Mumbai (Maharashtra), India), Poovri Devani, Priyanka Jain, Abha Pandey, Pralhad Prabhudesai

PA829 Benefits of pulmonary rehabilitation (PR) in patients with chronic obstructive pulmonary disease (COPD) and interstitial lung disease (ILD) having the same dyspnoea severity
Paula Ines Pedro (Odivelas, Portugal), Lília Maia Santos, Cristina Braco Forte, Ana Dias, Clara Cruz, Ana Filipe Santos, Fátima Rodrigues

PA830 Associated Factors with the Approval of Pulmonary Rehabilitation for Inpatients with Interstitial Lung Disease: Two-center Retrospective Study
Yuta Takahashi (Tokyo, Japan), Mitsutoshi Akiho, Masahiko Kimura, Ryosuke Tsugitomi, Atsushi Kitamura

PA831 The Efficacy Of Outpatient Pulmonary Rehabilitation After Bilateral Lung Transplantation; Case Series
Ipek Çaylı Candemir (Ankara, Turkey), PiNar Ergun, Dicle Kaymaz, Erdal Yekeler, Seher Satar, Harun Karamanlı, Nese Demir, Nurcan Egesel, Fatma Sengül

PA832 Development of a new prognosis index (BODS) in patients with COPD: a prospective cohort study
Sarah Jones (Berkshire, United Kingdom), Claire Nolan, Suhani Patel, Ruth Barker, Samantha Kon, Michael Polkey, Nicholas Hopkinson, Matthew Maddocks, William Man

PA833 COPD patients with ESOD score 3-4 reduce hospitalizations after a Pulmonary Rehabilitation Program
Paulo José Zimermann Teixeira (Porto Alegre (RS), Brazil), Rafael Machado De Souza, Álvaro Huber Santos, Ivo Bohn Jr, Mateus Schneider, Cassia Cinara Costa

PA834 Comparison of yoga with pulmonary rehabilitation on body composition, inflammatory biomarkers and dyspnoea in patients with COPD
Randeep Gujeria (New Delhi (Delhi), India), Sneh Arora, Pawan Tiwari, Anant Mohan, M Kalaivani, Karan Madan

PA835 Impact of fatigue improvement after pulmonary rehabilitation education on the long-term prognosis of patients with COPD
Yutaro Oki (Kobe, Japan), Akira Tamaki, Yukari Fujimoto, Kanji Yamada, Yuji Mitani, Yusuke Iwata, Takumi Yamaguchi, Akio Yamamoto, Hiromi Kaneko, Mineko Ohira, Akira Ishikawa

PA836 Effectiveness of peripheral muscles neuromuscular electrical stimulation (NMES) as the rehabilitation of severe chronic obstructive pulmonary disease (COPD) patients.
Tatyana Kunafina (Korolev, Russian Federation), Aleksandr Grigorievich Chuchalin, Andrey Staniislovich Belevskiy, Natalia Nicolaevna Meshcheriakova

PA837 Effect of pulmonary rehabilitation on balance control in patients with COPD
Murat Öztürk (Istanbul, Turkey), Ipek Özmen, Mine Gülden Polat, Elif Yıldırım, Meral Karakış

PA838 Changes of transdiaphragmatic pressure and breathing pattern during different levels of inspiratory loading
Yo Tamura (Tokyo, Japan), Masahiko Kimura, Yuji Iwanami, Manaka Shibuya, Tsuyoshi Ichikawa, Masanori Yokoba, Atsuhiko Matsunaga

PA839 A prospective observational study on long-term non invasive ventilation (L-T NIV) in COPD patients attending an inpatient pulmonary rehabilitation program (PRP)
Elisa Chellini (Firenze (FI), Italy), Claudio Mannini, Biagio Campana, Paolo Innocente Banfi, Eleonora Volpato, Antonella Arcadu, Isabella Romagnoli, Barbara Lanini, Francesco Gigliotti

PA840 Relationship between intrathoracic pressure and inspiratory volume during manually breathing assist technique
Yuji Iwanami (tokyo, Japan), Masahiko Kimura, Yo Tamura, Manaka Shibuya, Tsuyoshi Ichikawa, Masanori Yokoba, Atsuhiko Matsunaga

PA841 Knowledge and skills for inhaled drugs before and after a rehabilitation program in COPD: a real life study
Domenico Fiorenza (Gussago (BS), Italy), Alessandra Montini, Giovanna Benedetti, Antonella Pluda, Cristina Zanoni, Mara Paneroni, Michele Vitacca
### Session 103 12:50 - 14:40

**TP-11**

**Thematic poster: Imaging of various diseases with different imaging modalities**

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<th>Respiratory critical care</th>
<th>Pulmonary vascular diseases</th>
<th>Respiratory infections</th>
<th>Airway diseases</th>
<th>Interstitial lung diseases</th>
<th>Respiratory infections</th>
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<tr>
<th>Method(s):</th>
<th>Cell and molecular biology</th>
<th>Epidemiology</th>
<th>General respiratory patient care</th>
<th>Surgery</th>
<th>Endoscopy and interventional pulmonology</th>
<th>Imaging</th>
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<th>Chairs:</th>
<th>Heinrike Wilkens (Homburg (Saar), Germany), Aleksandar Gracic (Homburg, Germany), Johan Coolen (Leuven, Belgium), Chair to be confirmed</th>
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- **PA845**
  Factors associated with the growth of ground-glass opacity nodules on chest computed tomography
  Jung Hyeon Chang (Seoul, Republic of Korea), Yon Ju Ryu, Jin Hwa Lee

- **PA846**
  Matching morphological and molecular analysis of not-solid neoplastic lung nodules. A single institution experience
  Giulia Maria Stella (Pavia (PV), Italy), Antonio Ciufrì Reda, Maria Chiara Menniti, Patrizia Morbini, Filippo Antonacci, Chandra Bortolotto, Roberta Catania, Roberto Dore

- **PA847**
  Quantification of neutrophil accumulation in early lung cancer
  Nicola Tregay (Cambridge (Cambridgeshire), United Kingdom), Neda Farahi, Laurence Lok, Chrystalla Loutsios, Chandra Solanki, Daniel Gillett, John Buscombe, Uta Hill, Giuseppe Aresu, Adam Peryt, Robert Rintoul, Frank McCaughan, A. Michael Peters, Edwin Chilvers

- **PA848**
  Imaging features in post-operative lung cancer recurrence
  Monia Attia (La Marsa, Tunisia), Henda Neji, Mariem Affes, Soumaya Ben Saad, Houda Gharsalli, Ines Baccouche, Saoussen Hantous, Khoulou Ben Miled

- **PA849**
  Impact of video-fluoroscopic swallow studies on paediatric feeding management and clinical status
  Khaled Akel (Arara, Israel), Hannah Blau, Yuliana Eshel, Silvia Grozovsky, Julia Gendler, Huda Muzzaffi, Meir Mei Zahav, Dario Prais, Guy Steuer, Chagit Levine, Patrick Stafler

- **PA850**
  Usefulness of automatic pulmonary artery extraction in bronchoscopic navigation system
  Mamoru Kunisaki (Sapporo, Japan), Naofumi Shingawa, Hirohumi Takahashi, Yuta Takashima, Megumi Furuta, Tetsuki Shoji, Hidenori Kitai, Machiko Sasaki, Hidenori Mizugaki, Hajime Kikuchi, Eiji Kikuchi, Junko Kikuchi, Jun Sakakibara, Masaharu Nishimura

- **PA851**
  Mapping cardiac-induced lung motion using high-resolution time-resolved phase-contrast synchrotron computed tomography
  Luca Fardin (Grenoble, France), Ludovic Broche, Goran Lovric, Anders Larsson, Alberto Bravin, Sam Bayat

- **PA852**
  Scarron on chest radiograph – is it what it seems?
  Huijia Wang (Singapore, Singapore), Cynthia Chee, Yee Tang Wang, Gregory Kaw

- **PA853**
  The peculiarities of computed tomography (CT) patterns in patients with pulmonary mycobacterioses caused by slowly growing mycobacteria
  Limarova I., Makaryants N., Larionova E., Chernousova L.
  Natalia Makaryants (Moscow, Russian Federation)

- **PA854**
  Study to assess the need for CT abdomen/pelvis in patients with unprovoked pulmonary embolism
  Zeeshan Mustafa (Stoke-on-Trent (Staffordshire), United Kingdom), Arushi Sharma, Aqias Khaliq, Mohammed Haris

- **PA855**
  Prevalence of increased ratio between the right and left ventricles among patients undergoing CT pulmonary angiography with and without evidence of pulmonary embolism
  Avi Man (Tel-Aviv, Israel), Yizhak Hadad, Moshe Iluze, Shlomo Berliner, Tomer Ziv-Baran, Zach Rozenbaum, Galit Aviram

- **PA856**
  Utility of chest echography and pulmonary infection score in early diagnosis of ventilator associated pneumonia
  Rana Helmy El-Helbawy (Shbin El-Kom, Egypt), Mohammad Aghaa, Rehab Habeab, Reda Ibrahim

- **PA857**
  Imaging of organizing pneumonia
  Samy Kammoun (Sfax, Tunisia), Fendri Hela, Feki Wiem, Guermazi Haifa, Feki Walid, Mzid Yosra, Daoud Emna, Fourati Hela, Mnif Zeineb
What is the role of chest imaging in primary immunodeficiency disorders? About twelve cases
Samy Kammoun (Sfax, Tunisia), YOSRA MZID, Wiem Feki, Walid Feki, Hela Fendri, Emna Daoud, Hela Fourati, Zeineb Mnif

Relationship between HRCT changes and clinical parameters in patients with scleroderma
David Laszlo Tarnoki (Budapest, Hungary), Adam Domonkos Tarnoki, Vladyslava Skakun, Kinga Karlinger, Eniko Barczi, Aniko Bohacs, Veronika Muller

Layout of alveoli and pores of Kohn on magnified 3D printed model of the peripheral lung specimen by micro CT
Hiroshi Natori (Sapporo, Japan), Hirotsugu Takabatake, Masaki Mori, Kensaku Mori, Masahiro Oda, Hiroyuki Koba, Hiroki Takahashi

Characteristics of images from CT scans in elderly patients with acute cardiogenic pulmonary edema
Hirokazu Touge (Yonago, Japan), Katsuyuki Tomita, Masaharu Fukuki, Ryota Nagao, Tomoyuki Ikuechi, Hiromitsu Sakai, Akira Yamasaki, Eiji Shimizu

The added value of computed tomography to thoracentesis and chest x-ray for discriminating malignant from non-malignant causes in unilateral pleural effusions
Simon Reuter (Roskilde, Denmark), Barbera Malene Fischer, Paul Clementsen, Uffe Bødtger

The diagnostic value of 18F-FDG PET/CT scanning for discriminating malignant from non-malignant causes in unilateral pleural effusions
Simon Reuter (Roskilde, Denmark), Barbara Malene Fischer, Paul Clementsen, Uffe Bødtger

Correlation of CT Image registration-based metrics of regional ventilation distribution with lung function and exercise capacity in COPD patients: a pilot study
Julien COHEN (GRENOBLE CEDEX 9, France), Ludovic Broche, Gilbert Ferretti, Meriem Benmerad, Sébastien Bailly, Cevdet Ozcelik, Renaud Tamisier, Jean Louis Pépin, Sam Bayat

Is USG Morphological Features on EBUS TBNA useful for predicting malignancy?
Umang Shah (NAVI MUMBAI (Maharashtra), India), Arpan Shah, Chandrakant Shah

Utility of routine microbiological testing on Endobronchial Ultrasound (EBUS) guided lymph node aspirates
(, ), Sean Walsh (tagoat, Ireland), David Storey, Brian McCullagh, Dermot O’Callaghan

Critical aspects of Spontaneous Pneumothorax management in secondary care
George Antunes (Saltburn by the sea, United Kingdom), Michael Mather, Afsara Ahmmed

Performance of Endobronchial Ultrasound Transbronchial Needle Aspiration (EBUS-TBNA) with Rapid On-Site Evaluation (ROSE) in the pathological subtyping and molecular testing of non-small cell lung cancer (NSCLC) at a UK institute
Christopher Craig (Manchester (Greater Manchester), United Kingdom), Simon Bailey, Nadira Narine, David Shelton, Sakinah Thiriyayi, Durgesh Rana, Haider Al-Najjar

Safety of endoscopic versus endobronchial ultrasound in real world - data from multicenter register
Ilya Šivokozov (Moscow, Russian Federation), Natalya Makaryants, Oksana Yun, Dmitry Sazonov, Sergey Sokolov, Dmitry Dedushkin, Svetlana Pavlova, Natalya Li

EBUS guided Transbronchial needle biopsy (EBUS TBNB) of subcarinal lymph nodes – a Pilot study
Prince James (Vellore (Tamil Nadu), India), Richa Gupta, Balamugesh Thangakulam, Barney Isaac

Correlation of final pathology with the ROSE used during the EBUS-TBNA
Benan Caglayan (Istanbul, Turkey), Sinem Iliaz, Pinar Bulutay, Ayse Armutlu, Fatma Isil Uzel, Ayse Bilge Ozturk, Leyla Pur Ozyigit

PROPOFOL SEDATION FOR FLEXIBLE BRONCHOSCOPY (FB) AND ENDOBRONCHIAL ULTRASOUND BRONCHOSCOPY (EBUS): OUR EXPERIENCE.
Ana Maria Andres Porras (Valladolid, Spain), Sofia Jaurrieta Largo, Ignacio Lobato Astiarra, Blanca De Vega Sánchez, Ana Isabel García Omieva, Maria José Chourio Estaba, Maria Irene Alaejos Pascua, Maria Beatriz Cartón Sánchez, Isabel Ramos Cancelo, Carlos Disdier Vicente
PA873 Is there any added value of EBUS-TBNA to the identification of non-avid PET-CT lymph nodes?
Upul Pathirana (Kurunegala, Sri Lanka), Damith Rodrigo, Vasiliki Gerovasili, Jaymin Morjaria

PA874 Efficacy and safety of dexmedetomidine versus midazolam sedation in patients undergoing endobronchial ultrasound-guided transbronchial needle aspiration: a double blind randomized controlled trial
Ashutosh Aggarwal (Chandigarh (Uttar Pradesh), India), Renu Kumar, Kajal Jain, Ritesh Agarwal

PA875 Assessment of histological samples obtained from peripheral lung lesions by using transbronchial forceps and cryobiopsies guided with radial EBUS
Mohamed Samy Abdelmegeed Torky (Tanta, Egypt), Felipe Andreo, Wafaa S Elshimy, Mohamed Abdelwahab, Ghada Atef Attia, Raquel Lopez, Jose Luis Mate, Carmen Centeno, Pere Serra, Rachid Tazi Mazalek

PA876 Biopsy through lung parenchymal lesion using virtual bronchoscopy navigation (VBN) Archimedes with EBUS sheath tunneling
Joseph Ramzy (Philadelphia, United States of America), John Travaline, Jiji Thomas, Matthew Basile, Patrick Massetti, Gerard Criner

PA877 Feasibility of low-dose three-dimensional CT for peripheral bronchoscopy
Jung Seop Eom (Busan, Republic of Korea), Insu Kim, Min Ki Lee, Seyeon Park

PA878 Algorithmic interventional approach can successfully and safely diagnose-stage bronchoscopically invisible peripheral lung lesions.
Philip Emmanouil (Athens, Greece), Abdelfattah Touman, Nikolaos Koufos, Vlasios Vitsas, Ioannis Athanasopoulos, Nikolaos Koulouris, Grigorios Stratakos

Marco Trigiani (Ghedi (BS), Italy), Margherita Innocenti, Michela Bezzi

PA880 Accuracy of mutation analysis in small tissues from transbronchial lung biopsy with radial probe endobronchial ultrasound
INSU KIM (Busan, Republic of Korea), Jung Seop Eom, Min Ki Lee, Seyeon Park

PA881 Electromagnetic Navigation Bronchoscopy (ENB) in patients with severe COPD.
Jean-Baptiste Stern (Paris Cedex 14, France), Thibault Vieira, Marine Lefevre, Philippe Girard, Raffaele Caliandro

PA882 PD-L1 determination in cytological and histological samples in patients with non-small cell lung cancer
Sonia Margarita Baera Mena (barcelona, Spain), Carmen Angela Centeno Clemente, Felipe Andreo Garcia, Pere Serra Mitja, Rachid Tazi Mezalek, Jose Luis Mate Sanz, Carlos Martinez Barenys, Enric Carcereny Costa, Victor Margeli Cervera, Jorge Abad Capa

PA883 Transparietal chest pathology biopsy under CT control.
Peter Kukol (Vysne Hagy, Slovakia)

PA884 Diagnostic rate of endobronchial ultrasound with transbronchial needle aspiration (EBUS-TBNA) for benign causes of mediastinal lymphadenopathy
Xiao Ya Hu (Sydney (NSW), Australia), John Wheatley, Peter Wu

TP-13 Session 105  12:50 - 14:40

Thematic poster: Pleural interventions

Disease(s): Thoracic oncology | Airway diseases | Respiratory critical care | Respiratory infections | Respiratory infections

Method(s): Respiratory intensive care | Surgery | General respiratory patient care | Endoscopy and interventional pulmonology

Chairs: Najib M. Rahman (Oxford, United Kingdom), Rahul Bhatnagar (Bristol, United Kingdom), Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom), Peter I. Bonta (Amsterdam, Netherlands)

PA885 Late Breaking Abstract - Day case medical thoracoscopy safety: tertiary centre review
Hugh Ip (London, United Kingdom), Sarah Ahmed, Alex West, Liju Ahmed

PA886 Multicenter review suggests tunneled pleural catheter use in antineoplastic therapy-related immunosuppression does not increase infection rate
Candice Wilshire (Seattle, United States of America), Christopher Gilbert, Jason Akulian, Rachelle Asiaca, Benjamin Bevill, Kevin Davidson, Ashley Delgado, Hans Lee, Justin Lewis, Fabien Maldonado, Nicholas Pastis, Najib Rahman, Charkavarthy Reddy, Lance Roller, Henry Steer, Momen Wahidi, Howard West, Amber Wright, Lonny Yarmus, Jed Gorden

PA887 Multidisciplinary approach to connective tissue disease (CTD) related pleural effusions
Eugene Ace McDermott (London, United Kingdom), Hugh Ip, Parthipan Sivakumar, Sangita Agarwal, Boris Lams, Alex West, Liju Ahmed
Comparison between small-bore catheters and large-bore chest tubes for the management of complicated paraneumonic pleural effusion.

Julia Herrero Huertas (Oviedo, Spain), Francisco Lopez Gonzalez, Ariel Moreda, Ines Ruiz Alvarez, Tamara Hermida Valverde, Carmen Osoro Suarez, Andres Ortiz Reyes,Lucia Garcia Alfonso, Ana Isabel Enriquez Rodriguez, Cristina Hernandez Gonzalez, Pere Casan Clara

MITOXANTRONE PLEURODESIS - WHEN TALC IS NOT AN OPTION!

Roberto Emidio Meleira Taborda da Silva (Covilhã, Portugal), Juliana Barata, Mafalda Batista, Sara Martins, Inês Vicente, Eunice Magalhães, Jesus Valente, Salete Valente

Pleural pressure pulse - a new phenomenon registered during pleural manometry

Elżbieta Magdalena Grabczak (Warszawa, Poland), Marcin Michnikowski, Grzegorz Styczyński, Monika Zielinska-Krawczyk, Anna M. Stecka, Piotr Korzynski, Krzysztof Zielinski, Krzysztof J. Palko, Tomasz Golczewski, Rafal Krenke

Variable adoption of intrapleural fibrinolytic therapy for pleural space infections

Ane Sophia Jackson (Seattle, United States of America), Joshua R Rayburn, Carson C Fuller, Candice L Wilshire, Christopher R Gilbert, Brian E Louie, Ralph W Aye, Eric Vallières, Alex S Farivar, Adam J Bograd, Kimberly E Costas, John R Handy, Svetlana Kotova, Jed A Gorden

C.T assisted Abrams needle pleural biopsy for diagnosis of cases with exudative pleural effusion

Ahmed Kabil (Cairo, Egypt), Fares Ouf, Talaat Arfa, Nabil Awad, Hussein Yassin

Smear cytology of Pleural nodule during Thoracoscopy - A new approach for early diagnosis of Pleural pathology.

Prince James (Vellore (Tamil Nadu), India), Richa Gupta, D J Christopher, Balamugesh Thangakulam, Jennifer Prabhu

Implementation of medical thoracoscopy after an ERS course: a survey.

Stavros Anevlavis (Komotini, Greece), Sarah Dowsland, Philippe Astoul, Marios E. Froudarakis

Developing an integrated pleural service

Bakere Hugh (United Kingdom), Elizabeth Batalla-Duran

Respiratory Medicine trainees' experience with large bore chest drains: Results from a UK wide national survey.

Sannaan Irshad (Derby (Derbyshire), United Kingdom), Ahmad Kamal Azri Musa Asa'Ari, Usman Maqsood, Shahnaz Piracha, Shahul Leyathk Ali Khan, Nadeem Maddekar, Muhammad Haris, Muhammad Badar Ganaie

Povidone iodine vs. oxytetracycline efficacy in pleurodesis of patients with malignant pleural effusion

Anjuli May Jaen (Pasay City, Philippines), Tomasito Sy, Elvie Victonette Gonzalez

Utility of bronchoscopy in pleural effusion of unknown origin

Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Leyre Serrano Fernandez, Beatriz Gomez Crespo, Marta Garcia Moyano, Idoia Salinas Garrido, Beatriz Gonzalez Quero, Luis Alberto Ruiz Iturriaga, Rafael Zalacain Jorge

Pneumothorax induction with a Boutin needle without ultrasound guidance during local anaesthetic thoracoscopy.

Mark Watson (London, United Kingdom), Samal Gunatilake, Jonathan Owen, Herve Jullian

Indwelling pleural catheters vs. pleurodesis for malignant pleural effusions: a meta-analysis

Anjuli May Jaen (Pasay City, Philippines), Ralph Elvi Villalobos, Ruth Divinagracia, Irene Tan

Outcome of early medical thoracoscopy in pleural infection.

Soren Helbo Skaarup (Aarhus C, Denmark), Giampietro Marchetti

Comparative study of cryobiopsy and forceps biopsy on thoracoscopy in undiagnosed pleural effusions at a tertiary care centre in India

Abhijit Vinod Ahuja (Mumbai (Maharashtra), India), Jeenam Shah, Rajiv Goyal

Comparison of analgesic use during pneumothorax treatment using ambulatory device and chest drainage

Milan Sova (Olomouc, Czech Republic), Martin Poruba, Petr Jakubec, Jaromir Zatloukal, Karel Urbanek, Vitezslav Kolek

Recurrence in spontaneous pneumothorax - 15 years review

Maria Joao Freitas Ferreira Araujo (Guimaraes, Portugal), Filipa Aguiar, Raquel Pereira, Joana Lages, Ana Luisa Vieira, Cecilia Pacheco, Lurdes Ferreira, Joao Cunha

Thematic poster: Primary care management of COPD

Disease(s): Airway diseases

Method(s): Public health Epidemiology Respiratory intensive care General respiratory patient care

Chairs: Rachel Jordan (Birmingham (West Midlands), United Kingdom), Evelyn Brakema (Amsterdam, Netherlands), Persijn Honkoop (Leiden, Netherlands), Patrick T. White (London, United Kingdom)
Using a rapid prioritisation process to identify health research priorities in LMICs
Rachel Jordan (Birmingham (West Midlands), United Kingdom), Andy Dickens, Peymane Adab, Kar Cheng, Chunhua Chi, Brendan Cooper, Jaime Correia De Sousa, Alexandra Enocson, Amanda Farley, Nicola Gale, Kate Jolly, Sue Jowett, Mariam Maglakelidze, Tamaz Maglakelidze, Sonia Martins, Radmila Ristovska, Alice Sitch, Katarina Stavrikj, Rafael Stelmach, Alice Turner, Sian Williams

Peak-flow or portable spirometry as a replacement for Spirometry in the diagnosis of COPD and Asthma
Sanjeev Nair (Trivandrum (Kerala), India), Arjun Padmanabhan, Anitha Kumari

Describing “real world” COPD patients in primary care in Germany – Findings of the BeoNet-Registry
Carolina Judith Klett-Tammen (Hannover, Germany), Heidrun Lingner, Alexander Kuhlmann, Torben Schmidt, Johanna Lutter, J M Von Der Schulenburg, Michael Kreuter, Tobias Welte

Health status changes in Dutch regular care COPD patients classified per GOLD category
Harma J. Mol-Alma (Groningen, Netherlands), Corina De Jong, Robbert Sanderman, Janwillem Kocks, Thys Van Der Molen

Asthma and Chronic Obstructive Pulmonary disEase Decision Support System (Asthmacope DSS) for managing neglected chronic respiratory diseases in resource constrained primary health care setting in India
Raghupathy Anchala (Hyderabad (Andhra Pradesh), India)

Health seeking behaviour and care provided to obstructive airway disease patients in Trivandrum, South India
Padmanabhan Arjun (Trivandrum (Kerala), India), Sanjeev Nair, Anitha Kumari

COPD GOLD 2017 guidelines adherence in Swiss pulmologists and general practitioners
Joana Marmy (Liestal, Switzerland), Jens Diedrich, Thomas Dieterle, Jörg Leuppi

Improvement of self-reported physical functioning with tiotropium/olodaterol in Central and Eastern European COPD patients
Arshang Valipour (Wien, Austria), Michael Tamm, Jana Kocianová, Valentina Bayer Zubek, Alexey Medvedchikov, Monika Haaksma Herczegh, János Mucsi, Zvi Fridlender, Claudia Toma, Andrey Belevsky, Bohumil Matula, Jurij Sorli

National and international expansion of capacity building model of India for primary care physicians(PCPs) in the management of COPD & Asthma
Haresh Chandwani (Gurgaon (Haryana), India), Sourabh Sinha, Shilpa Jain, Priyanka Gupta, Sandeep Bhalla, Bv Murali Mohan, Monica Barne, Sundeeq Salvi, Dorairaj Prabhakaran

The impact of obstructive airway diseases (OADs) training on knowledge level of 385 allied health professionals in India
Maduragauri Shevade (Pune (Maharashtra), India), Komalkirti Apte, Sapna Madas, Nisha Kale, Sundeeq Salvi

The MISTRAL study: COPD treatment by general practitioners – diagnosis, treatment decisions, and cooperation with pneumologists
Khesraw John Karmand (Xanten, Germany), Thomas Voshaar, Lucia Krott

Step-down of non-indicated triple therapy in COPD using routine primary care data: A regional pilot study
Andrew Creamer (Bristol (Avon), United Kingdom), Elizabeth Mallett, Angela Stinchcombe, J Calvert

Why prescribe ICS to Dutch COPD patients in primary care, and when and how to stop. Data from focus groups with patients and health care providers
Corina de Jong (Groningen, Netherlands), Job Van Boven, Tjard Schermer, Roland Riemersma, Ebian Brill, Maarten Van Den Berge, Thys Van Der Molen, Janwillem Kocks

Data mining Inhaled corticosteroid Beclometasone dipropionate (bdp) equivalent dose from routine primary care records
Chris Newby (Leicester (Leicestershire), United Kingdom), Diamor Marke, Shauna Mekibben, Chris Griffiths

REducing Delay through edUcation on eXacerbations (REDUX) in patients with COPD
Cynthia Hallensleben (Capelle aan den IJssel, Netherlands), Jaco Biewenga, Job F.M. van Boven, Niels H. Chavannes

The risk of repeated hospitalizations for exacerbations of chronic obstructive pulmonary disease
Rustem Khamitov (Kazan (Republic of Tatarstan), Russian Federation), Alfia Iakupova, Aigoul Zinnatullina

Prediction of future COPD exacerbations - DOSE index or a history of exacerbations?
Björn Ställberg (Uppsala, Sweden), Marieann Högman, Christer Janson, Kristina Bröms, Andrei Malinovschi, Karin Lisspers
Understanding referral to Pulmonary Rehabilitation for COPD patients by Primary Health Care staff - a qualitative study using the Theoretical Domains Framework.
Jane Watson (Cambridge (Cambridgeshire), United Kingdom), Rachel Jordan, Paymane Adeb, Alexandra Enoconson, Sheila Greenfield, Ivo Vlaev

TANDEM (Tailored intervention for ANxiety and DEpression Management in COPD) trial: Qualitative interviews with health care professionals from the pilot phase
clarisse dibao-dina (tours, France), Stephanie Taylor, Hilary Pinnock, Elizabeth Steed, Sarah Saqi-Waseem, Moira Kelly

Participant experiences in TANDEM feasibility pilot
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Amy Barradell, Ratna Sohanpal, Kristie-Marie Mammoliti, Anna Moore, Stephanie Jc Taylor

TP-15
Thematic poster: Functional genomics and COPD: new challenges

DNA methylation and gene expression changes in human lung fibroblasts occur already in mild COPD and progress with disease development
Renata Jurkowska (Heidelberg, Germany), Uwe Schwartz*, Maria Llamazares Prada*, Mandy Richter, Raluca Tamas, Thomas Muley, Arne Warth, Dieter Weichenhan, Benedikt Brors, Karsten Quast, David Wyatt, Christoph Plass

SNPs which influence the transcriptional response to acute smoke exposure are associated with long term lung function decline in smokers
Alen Faiz (Groningen, Netherlands), Ehab Billatos, Marc Lenburg, Avrum Spira, Judith Vonk, Marike Boezen, Irene Heijink, Maarten Van Den Berge

The genomic instability in clean-up workers of Chornobyl NPP with COPD
Lyudmila I. Shwayko (Kyiv, Ukraine), Kostiantyn Bazyka, Iryna Iltenko, Natalya Golyarnik

Cigarette smoke extract alters genome-wide profiles of circular RNAs in primary human alveolar epithelial cells
Zeng Ni (Beijing, China), Shen Yongchun, Wen Fuqiang

Dynamics of oxidative and antioxidant parameters of the exhaled air condensate in COPD.
Igor A. Klimanov (Moscow, Russian Federation), E Zaprudnova, P Zhestkov, Sayd Manas, M Smirnov , M Glukhova, O Brodskaya, S Soodaeva

LIPID PEROXIDATION IN PATIENTS WITH COPD AND CHRONIC HEART FAILURE.
Igor A. Klimanov (Moscow, Russian Federation), Anastasia Khaletskaya, Aleksandr Kuznechov, Klavdia Kontorschikova, Nailya Kubyshева, Daria Leonova, Anastasia Bobkova, S Soodaeva

Systemic inflammation is associated with mitophagy signalling in skeletal muscle of COPD patients
Harry R. Gosker (Maastricht, Netherlands), Pieter A. Leermakers, Anita E. Kneppers, Marco C. Kelders, Chiel C. De Theije, Annemie M. Schols

Oxidative stress indicators in patients with an exacerbation of COPD
Svetlana K. Soodaeva (Moscow, Russian Federation), Nailya Kubyshева, Igor Klimanov, Timur Li, Mary Glukhova, Tatjana Eliseeva, Lidiya Nikitina

Metabolic paralysis in systemic immune cells of Chronic Obstructive Pulmonary Disease (COPD) subjects.
Sundip Santosh Salvi (Pune (Maharashtra), India), Ankita Brahme, Smita Kadam, Manas Agrawal, Komalkirti Apte, Govinda Narke, Sapna Madas, Amit Agarwal

To the molecular genetic mechanisms of the COPD pathogenesis
Vyacheslav Kobylansky (Moscow, Russian Federation)

Molecular characterization of novel PiS-like alleles identified in Spanish patients with Alpha-1 antitrypsin deficiency
Nerea Matamala (MADRID, Spain), Gema Gomez-Mariano, Selene Martinez, Alejandro Damián, Virginia Aquino, Sheila Ramos, Irene Gonzalo, Raquel Saez, Igor Iturbe, Javier Michel De La Rosa, María Molina-Molina, María Del Puerto Cano, Ignacio Blanco, Cristina Esquinas, Francisco Casas-Maldonado, Beatriz Martinez-Delgado
| PA938 | Cytochrome P450 2A5 methylation and gene expression profile is organ-specific and affected by maternal smoking during pregnancy |
| PA939 | Role of β2-adrenergic receptor in cigarette smoke-induced COPD in mice |
| PA940 | Impaired skeletal muscle kynurenine metabolism in patients with COPD |
| PA941 | Dysregulation of circadian clock genes in human pulmonary vascular cells exposed to cigarette smoke extract: possible involvement of epigenetic modification |
| PA942 | Blood levels of matrix metalloproteinases (MMPs) and tissue inhibitors of matrix metalloproteinases (TIMPs) as biomarkers of COPD. |
| PA943 | The KEAP1/NRF2 signaling system genes and theirs target genes are associated with COPD |
| PA944 | Role of NKX2-1 in diffuse infiltrative pneumonia |
| PA945 | Lymphocyte senescence in COPD is associated with decreased sirtuin 1 expression in steroid resistant pro-inflammatory lymphocytes |
| PA946 | Cytogenetic analysis in peripheral blood lymphocytes from allergic and non-allergic asthmatic patients |
| PA947 | Consistently low blood lymphocytes in smokers are associated with worse clinical outcomes. |
| PA948 | Airway eosinophilia in severe asthma is associated with smoking history |
| PA949 | Blood eosinophils do not reliably reflect airway eosinophils in asthmatic children |
| PA950 | Blood vs sputum eosinophils as predictors of exacerbations in a cohort of severe asthmatics |
| PA951 | Periostin expression in the U-BIOPRED severe asthma bronchoscopy cohort |
| PA952 | Cellular pattern of bronchial inflammation in asthma patients with functional signs of irreversible obstruction |
The influence of smoking on the formation of cold airway hyperresponsiveness and destructive-cytolytic profile of goblet cells in asthma patients
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B. Pirogov, Anna G. Prikhodko, Victor P. Kolosov, Sergey V. Zinovyev, Artem V. Kolosov, Elena Karapetyan, Xiangdong Zhou, Qi Li

Galecn-3 : marker of airway inflammation in bronchial asthma
Reham Elkolaly (Tanta, Egypt), Dareen Ali

PECULIARITIES OF CYTOKINE DYNAMICS IN PATIENTS WITH BRONCHIAL ASTHMA
Sayyora Bazarova (Tashkent, Uzbekistan), Gulnara Dzhambekova, Elnara Ismailova

Bacterial load and contamination in lung microbiota studies
Christine Drengenes (Bergen, Norway), Harald Wiker, Tharmnini Kalananthan, Tomas Eagan, Rune Grønseth

Endotypes of severe allergic asthma patients who clinically benefit from Anti-IgE therapy
Chi-Hsien Huang (Taipei, Taiwan), Yu-Chen Huang, Chih-Ming Weng, Meng-Jung Lee, Chun-Hua Wang, Han-Pin Kuo

Cytokine profiles in the lungs of patients with interstitial and obstructive lung diseases
Peter Korosec (Golnik, Slovenia), Katarina Osolnik, Darja Polak, Mateja Marc Malovrh, Sabina Skrgat

T-cell subsets in bronchoalveolar lavage fluid from adults with a history of Bronchopulmonary Dysplasia (BPD)
Petrum Bergström (Sollentuna, Sweden), Melvin Pourbazargan, Bettina Levänen, Marika Ström, Eva Berggren-Broström, Erik Mellen, Asa Wheelock, Anders Lindén, Magnus Sköld

Relationship between circulating serpin 3g, activity of matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1, 2 with chronic obstructive pulmonary disease severity
Pelin Uysal (istanbul, Turkey), Hafize Uzun

Serum periostin is not a good biomarker to identify Th2-driven inflammation in COPD

Sputum cytokine profiling according to the type of airway inflammation in obstructive pulmonary diseases
Małgorzata Proboszcz (Warszawa, Poland), Patrycja Nejman-Gryz, Magdalena Paplińska-Goryca, Katarzyna Górska, Rafał Krenke, Tadeusz Przybyłowski

Human airway trypsin-like protease stimulates differentiation of fibroblasts to myofibroblasts in human bronchial fibroblasts in vitro
Mari Miki (Toyonaka, Japan), Keisuke Miki, Seigo Kitada, Yukiyasu Takeuchi, Rie Tsutsumi, Susumu Yasuoka

Increased endocytosis activity contributes to the enhanced TGFβ-induced fibroblast to myofibroblast transition in bronchial asthma
Marta Michalik (Kraków, Poland), Damian Ryszawy, Dawid Wnuk, Natalia Janik, Elżbieta Karnas, Milena Paw, Hanna Plutecka, Bogdan Jakiela, Zbigniew Madeja

Enhanced efficiency of phenotypic transition of asthmatic fibroblasts depends on canonical and non-canonical TGFβ/Smad signaling pathways
Dawid Wnuk (Kraków, Poland), Karolina Ryczek, Natalia Janik, Elzbieta Karnas, Milena Paw, Hanna Plutecka, Bogdan Jakiela, Zbigniew Madeja

Eosinophils contribute to extracellular matrix remodeling by enhancing pulmonary fibroblasts proliferation, differentiation and extracellular matrix proteins production in asthma
Andrius Januskevicius (Kaunas, Lithuania), Ieva Janulaityte, Reinoud Gosens, Virginija Kalinauskaite-Zukauske, Rokas Stonkus, Kestutis Malakauskas
PA969  
Eosinophil outer membrane integrins and IL-5, IL-3, GM-CSF receptors expression in severe eosinophilic asthma  
Virginija Kalinauskaitė-Žukauskė (Kaunas, Lithuania), Ieva Janulaityte, Andrius Januskevicius, Rokas Stonkus, Kestutis Malakauskas

PA970  
Eosinophils promote airway smooth muscle cells contractility and a-actin gene expression in asthma  
Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Reinoud Gosens, Virginija Kalinauskaitė-Zukauskė, Rokas Stonkus, Kestutis Malakauskas

PA972  
Involvement of epigenetic factor in regulation of steroid resistant bronchial asthma patients  
RAVI MISHRA (Lucknow (Uttar Pradesh), India), Ravi Mishra (Ujjain (Madhya Pradesh), India), Harshit Singh, Saurabh Chaturvedi, Mohit Kumar Rai, Vikas Agarwal, Rachna Chaturvedi, Zia Hashim

PA973  
Corticosteroid-resistant neutrophilic airway inflammation and hyperresponsiveness caused by IL-13  
Hans Michael Haitchi (Southampton (Hampshire), United Kingdom), Elizabeth Davies, Joanne Kelly, Jeffrey Whitsett, Donna Davies

PA974  
Role of protein phosphatase 1 glycogen-associated regulatory subunit in asthma  
Blanca Margarita Bazan-Perkins (Mexico, Mexico), Mayra D. Alvarez-Santos, Marisol Alvarez-González, Elizabeth Eslava-De Jesus, Yazmin Pérez-Del Valle, Javier R. Ambrosio, Olivia Reynoso-Ducoing, Patricia Ramos-Ramírez

PA975  
Aerobic exercise reduces airway inflammation, remodeling and hyperresponsiveness by inhibiting reactive oxygen species and TGF-beta production by activated airway leukocytes: a flow cytometry approach  
Manoel Carneiro De Oliveira Jr (São Paulo (SP), Brazil), Alana Santos Dias, Ana Paula Ligeiro De Oliveira, Rodolfo De Paula Vieir

PA976  
SOCS-JAK-STAT Signalling is Involved in the Beneficial Effects of Aerobic Exercise in a Model of HDM-Induced Asthma  
Ana Oliveira (São Paulo (SP), Brazil), Jefferson Comin Jonco Aquino-Junior, Helida Cristina Aquino-Santos, Ana Paula Ligeiro De Oliveira, Rodolfo de Paula Vieira

PA977  
Blocking IL-4Ra with dupilumab prevents lung inflammation in a mouse asthma model  
Jamie Orenso (Tarrytown, United States of America), Jeanne Allinne, Audrey Le Floc'h, Terra Potocky, Jee H. Kim, Dylan Birchard, George Scott, Yu Bai, Ashique Rafique, Tammy Huang, Joel Martin, Matthew A. Sleeman, Andrew J. Murphy

PA978  
First evidence for a gut-lung axis influencing murine lung immunity upon early life antibiotic treatment  
Gregor Jatzlauk (Borstel, Germany), Sabine Bartel, Stefan Pfeiffer, Michael Schloter, Susanne Krauss-Etschmann

PA979  
Glucocorticoids induce a shift in chemokine profile in LPS-stimulated human alveolar macrophages  
Carina Mardh (Mölndal, Sweden), Nisha Kurian, Tomas Ottosson

PA981  
Inhaled formulation of angiotensin-(1-7) produces lung protective effects in a model of chronic asthma.  
Giselle Magalhães (Belo Horizonte, Brazil), Maria Da Gloria Rodrigues-Machado, Juliana Gregório, Kezia Gonzalez, Puebla Cassini, Luciola Barcelos, Robson Santos, Maria José Campagnole-Santos

PA982  
Bronchial Thermoplasty and its Impact on Mast Cells in the Asthmatic Airway Wall and Smooth Muscle  
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Julia N. Dumouchelle, Nick Hacken, ELS J.M. Weersink, Joris J.T.H. Roelofs, Jouke T. Annema, Peter I. Bonta

PA984  
The lung microbiota changes associated with inhaled corticosteroid and azithromycin in murine model of COPD  
Yen-Fu Chen (Douliou, Taiwan), Hsin-Han Hou, Shih-Lung Cheng, Hao-Chien Wang, Chong-Jen Yu

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TP-18  
Session 110  
12:50 - 14:40

Thematic poster: Pulmonary fibrosis: from models to patients  
Disease(s): Respiratory critical care, Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases  
Method(s): Physiology, Cell and molecular biology  
Chairs: Manuela Platé (London, United Kingdom), Arnaud Mailleux (Paris, France), Olivier Burgy (Aurora, United States of America), Melanie Königshoff (Denver, United States of America)
**LSC - 2018 - Distinct metabolic alterations in airway macrophages during pulmonary fibrosis**

Patricia Ogger (London, United Kingdom), Toby Maher (t.maher@rbht.nhs.uk / Royal Brompton Hospital, London), Clare Lloyd (c.lloyd@imperial.ac.uk / Imperial College London, London), Adam Byrne (a.byrne@imperial.ac.uk / Imperial College London, London)

**LSC - 2018 - MTOR regulates TGFß-induced collagen synthesis via increased glycine biosynthesis**

Ilan Azuelos (Montréal (QC), Canada), Brintha Selvarajah (brintha.hayas@ucl.ac.uk / UCL, London), Manuela Plate (m.plate@ucl.ac.uk / UCL, London), Hannah Woodcock (h.woodcock@ucl.ac.uk / UCL, London), Adam Taylor (adam.2.taylor@gsk.com / GSK, London), Gino Brunori (Gino.2.Brunori@gsk.com / GSK, Ware), Andy Blanchard (andy.d.blanchard@gsk.com / GSK, Stevenage), Paul Mercer (paul.mercer@ucl.ac.uk / UCL, London), Rachel Chambers (r.chambers@ucl.ac.uk / UCL, London)

**LSC - 2018 - Material properties of lung scaffolds derived from healthy and IPF donor tissues are associated with disease pathology**

Anna-Karin Larsson-Callerfelt (Lund, Sweden), Linda Elowsson, Anna Lofdahl (anna.lofdahl@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Oskar Rosmark (oskar.rosmark@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Catharina Muller (catharina.muller@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Anna-Karin Larsson Callerfelt (anna.karin.larsson_callerfelt@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Johan Malmstrom (johan.malmstrom@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University, Lund), Emma Ahrmann (emma.ahrmann@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund)

**Transcriptomic profiling of alveolar type 2 cells from mice expressing an ILD associated SFTPC173T mutation supports their role in inflammatory cell recruitment and fibrotic lung remodeling.**

Michael Beers (Wayne, United States of America), Jeremy Katzen, Alessandro Venosa, Yaniv Tomer, Michael Morley, Shin-Ichi Nureki

**The hypoxia-inducible factor 1a protein stabilizers inhibit transforming growth factor β-induced extracellular matrix proteins in epithelial cells and fibroblasts.**

Akira Ando (Nagoya-city, Japan), Naozumi Hashimoto, Koji Sakamoto, Yoshinori Hasegawa

**Effective LncRNAs on myofibroblast differentiation in human A549 cell line treated with TGF-β**

Özgecan Kayalar (Istanbul, Turkey), Merve Yildirim, Fusun Oztay

**Anti-fibrotic effect of Atorvastatin on the lung fibroblasts and myofibroblasts**

Ersan Atahan (Istanbul, Turkey), Merve Yildirim, Özgecan Kayalar, Fusun Oztay

**Effect of NAPDH oxidase inhibitors on lung fibroblast proliferation in systemic sclerosis**

Thông Hua-Huy (Paris, France), Carole Nicco, Jean-Luc Boucher, Hai Vu-Ngoc, Estelle Tran-Van-Hoi, Frederic Batteux, Anny Slama-Schwov, Anh Tuan Dinh-Xuan

**Development of improved method to identify and analyze lung fibrocytes with flow cytometry in a reporter mouse strain**

Hiroshi Kawano (Tokushima, Japan), Kazuya Koyama, Haruka Nishimura, Yuko Toyoda, Kozo Kagawa, Seidai Sato, Nobuhiro Naito, Hisatsugu Goto, Yutaka Inagaki, Yasuhiro Nishioka

**Mast cells and tryptase have migratory effect on human lung fibroblasts that is PAR-2 dependent**

Marian Bagher (Malmö, Sweden), Anna-Karin Larsson-Callerfelt, Oskar Hallgren, Leif Bjerner, Gunilla Westergren-Thorsson

**Erythropoietin (EPO) attenuates the immunohistochemical expression of tumor growth factor-β (TGF-β) in bleomycin (BLM)-induced pulmonary fibrosis (PF) in rats**

Anna Tzounaka (Thessaloniki, Greece), Drosos Tsavlis, Doxakis Anestakis, Constantina Symeonidou, Kokona Kouzi-Koliakou, Anastasia Tektonidou, Evangelia Spandou

**Eosinophilic inflammation and worsening of lung function upon pirfenidone treatment in Fra-2 transgenic mice**

Anna Gungl (Graz, Austria), Valentina Biasin, Crnkovic Slaven, Leigh M Marsh, Grazyna Kwapiszewska, Horst Olszewski

**A novel chronic murine model of idiopathic pulmonary fibrosis**

Karina Smidt Simon (Brasilia (DF), Brazil), Cesar Melo-Silva, Paulo Veloso-Junior, Verônica Amado, Florêncio Figueiredo, Anamélia Bocca
Analysis of the lung microbiota in healthy dogs and in canine idiopathic pulmonary fibrosis, a possible spontaneous model for human IPF.

Aline Fastrès (Liège, Belgium), Elodie Roels, Bernard Taminiau, Minna Rajamäki, Georges Daube, Julien Guiot, Cécile Clercx

Protective roles of mannose receptor in an experimental pulmonary fibrosis model

Masahiro Yamashita (Morioka (Iwate Prefecture), Japan), Miyuki Niisato, Yasushi Kawasaki, Makoto Maemondo

Time-course analysis of bleomycin-induced lung fibrosis in the rat

Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Martina Bonatti, Fabio Bignami, Maria Gloria Pittelli, Silvia Pontis, Caterina Frati, Chiara Mangiaracina, Federico Quaini, Costanza Lagrasta, Maurizio Civelli, Gino Villetti, Marcello Trevisani

Role of regulatory T-cells (Tregs) in bacterial infection-induced lung fibrosis exacerbation in mice

Steffi Moyè (Hannover, Germany), Regina Maus, Tim Sparwasser, Jack Gauldie, Martin Kolb, Tobias Welte, Ulrich A. Maus

The possible role of gastrin-releasing peptide on pulmonary fibrosis

Özgecan Kayalar (Istanbul, Turkey), H Gul Öngen, Fusun Oztay

Session 111: Thematic poster: Pulmonary drug delivery: inhaler use, devices and technologies

Chairs: Omar S. Usmani (London, United Kingdom), Nicolas Roche (Paris, France), Frederik Trinkmann (Mannheim, Germany), Angelica Tiotiu (Nancy, France)

Evaluation of inhalation technique in patients using Dry Powder Inhaler (DPI), and the effect of patient education on their techniques: an experience from Nepal

Sudeep Shrestha (Dhulikhel, Nepal), Sandhya Shrestha, Maun Ranjan Baral, Samblawana Bhandari, Swati Chand, Prashiddha Dhakal, Rajendra Tamrakar, Ram Kumar Mehta, Nirish Vaidhya, Satyaa Shrestha, Bijay Krishna Prajapati, Rajesh Pandey, Ashish Shrestha, Hari Kumar Shrestha

Standardising inhaler technique videos in a clinician and patient app

Azhar Saleem (London, United Kingdom), Darush Attar-Zadeh, Jas Khambh, Tim Root, Ben Rehman, Vince Mak, Omar Usmani

Asthma control and COPD symptom burden: results from a multi-country observational study (SPRINT) in patients using fixed dose combination (FDC) inhalers

Nicolas Roche (Paris, France), Vicente Plaza, Vibeke Backer, Job Van Der Palen, Isa Cerveri, Chelo Gonzalez, Guilherme Safioti, Irma Scheepstra, Oliver Patino, Dave Singh

What influences the response to training of inhalation technique in patients with asthma and COPD?

Izabela Domagała (Zielona Góra, Poland), Marta Dąbrowska, Marta Miszczyk, Katarzyna Łuczak, Marta Maskey-Warczęowska, Rafal Krenke

Inhaler preferences and satisfaction of asthma and COPD patients

Basima Almomani (Irbid, Jordan), Enas Mokhemer

Differences in inhaler misuse between patients with asthma and COPD.

Marta Miszczyk (Warszawa, Poland), Marta Dąbrowska, Izabela Domagała, Katarzyna Łuczak, Marta Maskey-Warczęowska, Rafal Krenke

Switch to Budesonide/Formoterol Easyhaler Inhalation from other inhalers in asthma patients; A real-life study

Gabriella Gálffy (Budapest, Hungary), Mária Szilasi

Importance of inhaler device use status in the control of asthma and COPD: a real life study.

Alice Bragantini (Genova (GE), Italy), Teresita Aloè, Tommaso Bondavalli, Diego Bagnasco, Giovanni Passalacqua

Pharmacokinetics (PK) and safety of budesonide/glycopyrronium/formoterol fumarate dihydrate (BGF) and glycopyrronium/formoterol fumarate dihydrate (GFF) metered dose inhaler (MDI) in healthy Chinese adults

Hanna Yu (Shanghai, China), Hanna Yu, Yun Liu, Kevin Shen, Pryseley N. Assam, Michael Gillen, Paul Dorinsky
**PA1014**

Efficacy and safety of glycopyrronium/formoterol fumarate dihydrate metered dose inhaler (GFF MDI) delivered using co-suspension delivery technology in Japanese patients with moderate-to-very severe COPD

Yasuhiro Gon (Tokyo, Japan), Koichi Nishi, Kazuhiro Sato, Andrea Maes, Shahid Siddiqui, Nobuya Hayashi, Hajime Hirata, Colin Reissner, Ubaldo J. Martin

**PA1015**

Lung deposition of extrafine inhaled corticosteroid (ICS)-containing fixed combinations drug in COPD patients using Functional Respiratory Imaging (FRI).

Ilaria Valente (Parma, Italy), Omar Usmani, Wim Vos, Benjamin Mignot, George Georges, Mario Scuri, Roberta De Maria, Nicola Scichilone

**PA1016**

Hyaluronic acid improves tolerability to 7% hypertonic saline solution in bronchiectasis patients

Luis Maiz Carro (Madrid, Spain), Rosá M. Giron, Eva Prats, Marta G. Clemente, Eva Polverino, Silvia Caño, Rosa Cordovilla, Jordi Dorca, Carlos PeñAlver, Miguel A. Martinez-Garcia

**PA1017**

Efficacy of the device in targeting tiotropium to the small airways in COPD

Martyn Biddiscombe (London, United Kingdom), Azhar Saleem, Sally Meah, Vincent Mak, Omar Usmani, Amanda Pellowe (Amanda.pellowe@yale.edu / Yale University, New Haven), Jia Li (jia.li.jl2875@yale.edu / Shanghai Jiao Tong University, Shanghai), Xueyan Peng (xueyan.peng@yale.edu / Yale University, New Haven), Anjelica Gonzalez (Anjelica.gonzalez@yale.edu / Yale University, New Haven), Erica Herzog (ERICA.HERZOG@YALE.EDU / Yale University, New Haven)

**PA1018**

Consistency of aerosol characteristics at low flow rates for a novel mesh nebulizer

John Pritchard (Newtown Linford, United Kingdom), Lois Slator, Dirk Von Hollen

**PA1019**

Reusuable soft mist inhaler: maintaining aerosol performance

Herbert Wachtel (Ingelheim, Germany), Michaela Hänsel, Joachim Eicher

**PA1020**

DuoResp Spiromax adherence, satisfaction and ease of use: findings from a multi-country observational study in patients with asthma and COPD (SPRINT)

Job van der Palen (Enschede, Netherlands), Isa Cerveri, Nicolas Roche, Dave Singh, Vicente Plaza, Chelo Gonzalez, Oliver Patino, Irma Scheepstra, Guillerme Safiotti, Vibeke Backer

**PA1021**

Reduced environmental impact of a reusable soft mist inhaler

Michaela Hänsel (Nieder-Olm, Germany), Thomas Bambach, Herbert Wachtel

**PA1022**

Comparing Lung Geometrical Areas of interest in Gamma Scintigraphy as Assessment Tool for Inhaled Drug Deposition

Abdullah Ghazwani (Dhahran, Saudi Arabia), Martyn Biddiscombe, Omar Usmani

**PA1023**

Revealing the regional localization and lung retention of inhaled drugs

Erica Bäckström (Mölndal, Sweden), Gregory Hamm, Mikael Brülls, Richard Goodwin, Markus Fridén

**TP-20**

Session 112 12:50 - 14:40

Thematic poster: New developments in the treatment of asthma

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** Respiratory intensive care, General respiratory patient care, Cell and molecular biology

**Chairs:** Jeanne-Marie Perotin-Collard (Reims, France), Tai Tran Quoc (Ho Chi Minh, Vietnam), Hannu Kankaanrantta (Seinäjoki, Finland), Anke-Hilse Maitland-van der Zee (Amsterdam, Netherlands)

**PA1024**

Evaluation of ICS/LABA combination therapy on respiratory function in patients with asthma: Open-label, randomized, cross-over trial.

Hiroyuki Ohbayashi (Kitanagoya City (Aichi), Japan), Sahori Kudo, Mitsue Ariga

**PA1025**

Pooled analysis of the efficacy and safety from two non-interventional studies of fluticasone propionate/formoterol pMDI

Vibeke Backer (København, Denmark), Olaf Schmidt, Birgit Langer-Brauburger, Tanja Schmidt, Carla Bennett, Dirk Lindner, Susanna Cuadripani, Birgit Grothe, Tim Overend

**PA1026**

Efficacy of weight-based reslizumab dosing is consistent across body weights in post-hoc analysis

Kevin Murphy (Omaha, United States of America), Robert Noble, Lisa Hickey, Margaret Garin

**PA1027**

Efficacy and safety of extrafine glycopyrronium bromide (GB) in uncontrolled asthmatic patients

George Georges (Cary, United States of America), Pierluigi Paggiaro, Mario Scuri, Ilaria Valente, Alessandro Guasconi, Sandrine Corre, Alberto Papi

**PA1028**

Management of severe allergic asthma in the UK: Which monoclonal antibody would you choose?

Tanveer Khalid (Tameside (Greater Manchester), United Kingdom), Ben Clarke, Peter Vivian, Jonathan Walker, Dinesh Saralaya
Real-world effectiveness of omalizumab in allergic asthma patients with low or high blood eosinophils: A retrospective claims analysis study
Nicola Hanania (Houston, United States of America), Juanzhi Fang, Zhongyuan Wei, Benjamin Ortiz, Abhishek Kavati, Xavier Jaumont, Luisa Alves, Hui Cao

Steroid inhaler dose reduction in comparison with montelukast discontinuation in asthma patients controlled by steroid inhaler and montelukast
shahideh amini (Tehran, Islamic Republic of Iran), Hamidreza Aghtahi, Beshrat Rahimi

Intravenous (IV) reslizumab efficacy does not differ by blood eosinophil lowering to levels above or below 50 cells/µL.
Yochai Adir (Haifa, Israel), Mario Castro, Pascal Chanez, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Immunogenicity assessment of intravenous administration of reslizumab in patients with asthma in phase 3 clinical studies
Margaret Garin (Media, United States of America), Linglong Zou, Laurie Pukac, Yael Shalit, Lisa Hickey, Patrick Liu

Intravenous (IV) reslizumab efficacy does not differ by blood eosinophil lowering to levels above or below 50 cells/µL.
Yochai Adir (Haifa, Israel), Mario Castro, Pascal Chanez, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Tiotropium provides greater improvements in FEV1 than leukotriene receptor antagonists as add-on to ICS in adults with asthma: a systematic review
Alan Kaplan (Stouffville (ON), Canada), J. Mark Fitzgerald, Georges El Azzi, Michael Engel, Roland Buhl

No clinically relevant hypersensitivity reactions in clinical trials with tralokinumab in asthma
Mats Carlsson (Göteborg, Sweden), Martin Braddock, Yuling Li, Jihong Wang, Weichen Xu, Gene Colice

Immunogenicity assessment of intravenous administration of reslizumab in patients with asthma in phase 3 clinical studies
Margaret Garin (Media, United States of America), Linglong Zou, Laurie Pukac, Yael Shalit, Lisa Hickey, Patrick Liu

Characteristics of patients receiving mepolizumab in real-world practice –REALITI-A study
Namhee Kwon (Brentford (Middlesex), United Kingdom), Kim Gemzoe, Sally Worsley, Nedicet Gunsoy, Sandra Joksait, Melissa Van Dyke, Carys Bettinon, Frank Albers

Long-term results of anti-IgE-therapy in severe uncontrolled child asthma.
Svetlana Diakova (Moscow, Russian Federation), Yuriy Mizernitskyi, Ludmila Sokolova, Elena Sorokina, Irina Zorina

Which are the factors and causes that lead to omalizumab withdrawal in severe asthma patients?
Ester Zamarron De Lucas (Madrid, Spain), David Romero Ribate, Juan Fernández-Lahera Martinez, Carlos Villasante Fernández-Montes, Santiago Quirce Gancedo, Pilar Barranco Sanz, Javier Domínguez Ortega, Rodolfo Alvarez-Sala Walther

Reliever effect of extrafine BDP/F DPI in asthmatic patients after methacholine challenge
Massimo Corradi (Parma (PR), Italy), Dave Singh, Frans Van Den Berg, Brian Leaker, Sunny Jabbal, Sara Collarini, Valentina Mongelli, Luigi Santoro, Annalisa Piccinino, Sonia Biondaro, Brian Lipworth

Analysis of cytogenetic alterations in asthmatic patients treated with beclometasone dipropionate
Andrey Lintsov (St.Petersburg, Russian Federation), Boris Uslontsev, Nadezhda Pleskach, Viktor Mikhelson

Inhaled corticosteroids and asthma control in adult-onset asthma: 12-year follow-up study
Iida Vähätalo (Tampere, Finland), Pinja Ilmarinen, Leena E Tuomisto, Onni Niemelä, Hannu Kankaanranta

Intermittent tiotropium in early childhood wheezing? Preliminary safety results of a pilot study
Anne Kotaniemi-Syrjänen (Vantaa, Finland), Timo Klemola, Petri Köpponen, Henrikka Aito, Kristiina Malmström, Pekka Malmberg, Anna Pelkonen, Mika Mäkelä

Consistent efficacy across endpoints with reslizumab despite short term variability in blood eosinophil levels
Mario Castro (St. Louis, United States of America), Yochai Adir, Pascal Chanez, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Antigen challenge results in specific activation of pathways for arachidonic acid oxygenation
Jesper Säfholm (Solna, Sweden), David Balgoma, Alexander Faulund, Christina Gomez, Johan Kolmert, Mikael Adner, Craig Wheelock, Sven-Erik Dahlén

Thematic poster: Basic pharmacology

Airway diseases
Respiratory infections
Interstitial lung diseases
Respiratory critical care
Respiratory infections

General respiratory patient care
Physiology
Cell and molecular biology

Michael A. Wortley (London, United Kingdom), Reinoud Gosens (Groningen, Netherlands), Lena Uller (Lund, Sweden), Paul Kirkham (Wolverhampton (West Midlands), United Kingdom)

Antigen challenge results in specific activation of pathways for arachidonic acid oxygenation
Jesper Säfholm (Solna, Sweden), David Balgoma, Alexander Faulund, Christina Gomez, Johan Kolmert, Mikael Adner, Craig Wheelock, Sven-Erik Dahlén
Effect of a small natural dietary compound on lung pathology in airway inflammation
Amlan Chakraborty (Clayton, Australia), Jennifer Boer, Simon Royce, Kirsty Wilson, Cordelia Selomulya, Magdalena Plebanski

Metformin and pioglitazone inhibited vagus nerve mediated airway hyperreactivity in diet-induced obese rats
Zhenying Nie (Portland, United States of America), Becky Proskocil, David Jacoby, Alisson Fryer

The Discovery and Development of AZD1402/PRS-060, an Inhaled, Potent and Selective Antagonist of the IL-4 Receptor Alpha
Gabriele Matschner (München, Germany), Song Huang, Samuel Constant, Barbara Rattenstetter, Hendrik Gille, Andreas M Hohibaum, Beverly Koller, David Keeling, Mary Fitzgerald

Steroid-resistant inflammation in a mouse model of severe asthma is not inhibited by the combination of theophylline and budesonide
Vince Russell (Verona (VR), Italy), Mariapia Brana, Daniela Pompilio, Giulia Ambrosi, Filippo Andreetta, Elisa Venturini, Anna Chalidou, M Elena Manni

Effect of inhaled surfactant enriched with phosphatidylethanolamine on matrix deposition in a murine model of airway inflammation and remodeling.
Luis G. Vázquez de Lara (Puebla (Pue.), Mexico), Imsene García-Alcudia, Itzel García-Mendoza, Yamillet Díaz Gómez, Beatriz Tlatelpa-Romero, Nora Fernández-Tamayo, Mario García-Carrasco, Fernando Vazquez De Lara

Mucus rheology and ciliary beating coordination
Myriam Jory (Montpellier, France), Christophe Blanc, Aurélie Fort, Laura Casanellas, Isabelle Vachier, Arnaud Bourdin, Gladys Massiera

Small airway reactivity is not altered in precision-cut lung slices from a bleomycin mouse model of airway fibrosis
Maggie Lam (Melbourne, Australia), Vivian Mao, Chrihsan Samuel, Jane Bourke, Simon Royce

Nonclinical safety profiles of DS-1515, a novel oral PI3Kd inhibitor.
Kiyoshi Morimoto (Tokyo, Japan), Koichi Yabe, Masakatsu Suzuki, Kazuhiko Mori

ADME properties of a novel PI3Kd inhibitor, DS-1515, in preclinical studies
Kiyoshi Morimoto (Tokyo, Japan), Yumi Nishiyama, Tomoyo Honda, Kenichi Itoikawa, Osamu Ando, Masakatsu Suzuki

Pharmacological properties of a novel PI3Kd inhibitor, DS-1515
Masakatsu Suzuki (Tokyo, Japan), Kenichi Wakita, Kumiko Koyama, Shintaro Nakayama, Yumi Nishiyama, Puneet Chopra, Mahesh Seth, Pooja Chabbra, Punit Srivastava, Ankur Kumar, Manish Diwan, Kiyoshi Morimoto

Cytotoxicity of liposome-encapsulated polyinosinic-polycytidylic acid in primary human macrophages is only partially related to interferon-β
Nurlan Dauletbaev (Montreal (QC), Canada), Aparna Dintakurti, Yoojin Choi, Maria Cammisano, Warren Viricel, Jeanne Leblond, Larry Lands

Cyclic AMP compartments drive airway epithelial-to-mesenchymal transition (EMT)
Martina Schmidt (Groningen, Netherlands), Haoxiao Zuo, Repair & Development Section, National Heart & Lung Institute, Imperial College London, London , UK,London), Lisa G. Gregory (l.gregory@imperial.ac.uk / Inflammation, Repair & Development Section, National Heart & Lung Institute, Imperial College London, London , UK,London), Juho Vuoronvirta (j.vuoronvirta@imperial.ac.uk / Inflammation, Repair & Development Section, National Heart & Lung Institute, Imperial College London, London , UK,London), Robert Oliver (r.oliver@imperial.ac.uk / Inflammation, Repair & Development Section, National Heart & Lung Institute, Imperial College London, London , UK,London), James E. Pease (j.pease@imperial.ac.uk / Inflammation, Repair & Development Section, National Heart & Lung Institute, Imperial College London, London , UK,London)

Photobiomodulation and corticosteroid modulate pulmonary inflammation and airway reactivity in an experimental model of chronic asthma
Aurélia Aparecida De Brito Léia (Vargem Grande Paulista, Brazil), Tawany Gonçalves Santos, Karine Zanella Herculano, Cintia Estefano Alves, Nicole Cristine Rigonato Oliveira, Stephanie Souza Soares, Maysa Alves Rodrigues, Flávio Aimbire, Rodolfo De Paula Vieira, Adriana Lino-Dos-Santos- Franco, Ana Paula Ligeiro Oliveira

A fluid secretion assay using nasal organoids
Gimano Amatgalim (Utrecht, Netherlands), Lisa Rodenburg, Jesse Brunsveld, Evelien Kruisselbrink, Kors Van Der Ent, Jeffrey Beekman
Low concentration of phenol in medical solutions can induce bronchoconstriction and toxicity in murine, rat and human lungs.
Christian Martin (Aachen, Germany), Galina Balakirski, Julia Krabbe, Thomas Schettgen, Annette Rieg, Thomas Schröder, Jan Spillner, Sebastian Kalverkamp, Till Braunschweig, Svetlana Kintsler, Ingo Krüger, Elisabeth Breuer

Development of a new calcilytic for the treatment of inflammatory lung disease
Daniela Riccardi (Cardiff, United Kingdom), Polina Yarova, Martin Schepelmann, Salvatore Ferla, Ping Huang, Vsevolod Telezhkin, Emma Kidd, William Ford, Kenneth Broadley, Jeremy Ward, Christopher Corrigan, Paul Kemp, Andrea Brauncle

The acute effect of inhaled salbutamol and ipratropium on microvascular function
Kashyap Chauhan (London, United Kingdom), Hussein Al-Rubaye, Monia Yasmine Arzim, Valentina Abi Osman, Emma H Baker, Henry Fok, Sachelle Rubckie, Daniel Burrage

Synergistic interaction between beclometasone dipropionate and formoterol fumarate in an ex vivo model of bronchial asthma
Luigino Calzetta (Roma (RM), Italy), Maria Gabriella Matera, Josuel Ora, Francesco Facciolo, Mario Cazzola, Paola Rogliani

Blood eosinophil as a biomarker in COPD
Joo Hun Park (Suwon, Republic of Korea), Yoonki Hong, Woo Jin Kim, Soo-Jung Um, Jin Hee Jung, Song Vogue Ahn, Yeon-Mok Oh, Je Seung Lee, Sang-Do Lee

Eosinophil count on admission is not a good biomarker in severe exacerbations of COPD to predict later readmission: a long term observational study from the AECOPD-Barcelona Cohort
Arturo Humberto Huerta Garcia (Barcelona, Spain), Pedro J Marcos, Adrian Ceccato, Laia Pinyol, Monica Guerrero, Olivia Vilaro, Albert Gabarrus, Carolina Sanchez, Eliesenda Gomez-Angelats, Nestor Soler, Antoni Torres

Characteristics of COPD patients treated with inhaled corticosteroid in primary care
Osman Savran (Hvidovre, Denmark), Nina Skavlau Godtfredsen, Torben Sørensen, Christian Jensen, Charlotte Suppli Ulrik

Bronchiectasis contributes to the severity of COPD
Aikaterini Dimakou (Agia Paraskeyi, Greece), Maria Kaponi, Kyriaki Tsikritsaki, Anna Gousiou, Serapism Chrysikos, Georgios Hilas, Christina Triantafyllidou, Theodoros Karampitsakos, Loukas Thanos, Michael Toumbis

Residual reversibility in COPD subjects treated by long acting bronchodilators
Marjorie Picaud (Lille, France), Olivier Le Rouziec, Hélène Salvador, Hélène Neveu, Philippe Devillier, Louis-Jean Couderc, Thierry Perez

Exhaled NO (FeNO) levels in patients with exacerbation of COPD and/or bronchiectasis
Foteini Malli (Larisa, Greece), Ourania Kotsiou, Antonia Gouvani, Spyros Ladis, Konstantinos I Gourgoulianis, Zoe Daniil

Assessment of health status using CAT scores in COPD patients from Italy: the MISTRAL study
Paolo Morini (Imola (BO), Italy), Maria Luisa Agneni, Pasquale Patriciello, Antonio Triani, Piero Balbo, Rasa Metella Refini, Marta Bartezagh, Alberto Porgipila

Neutrophil to lymphocyte ratio and platelet to lymphocyte ratio in patients with acute exacerbation of chronic obstructive pulmonary disease
Abir Hedhli (Tunis, Tunisia), Azza Slim, Sana Cheikh Rouhou, Safa Ben Khaled, Amir Taboubi, Yassine Ouahchi, Jouda Cherif, Sonia Toujani, Mériem Mjid, Samira Merai

Exhaled nitric oxide as a biomarker in different COPD phenotypes
Ivona Markelić (Zagreb, Croatia), Miroslav Samaržija, Sanja Popović-Grlje, Blanka Čuk, Ana Hečimović, Mateja Janković-Makek, Andrea Vučić Dugac

Periostin levels in chronic obstructive pulmonary disease (COPD)
Saya Nakamura (Nagoya, Japan), Keiko Wakahara, Suguru Majima, Tomoko Nisio, Yoshiiho Suzuki, Akira Shiraki, Takashi Abe, Joe Shindoh, Toyokazu Sashio, Junya Ono, Kenji Izuhara, Yoshinori Hasegawa
Repeatability of multiple breath washout measurements in stable Chronic Obstructive Pulmonary Disease.
Enya Daynes (Coventry (West Midlands), United Kingdom), Marcia Soares, Neil Greening, John Owens-Bradley, Sally Singh, Salman Siddiqui

Could eosinophil / neutrophil ratio be used to determine treatment in COPD patients?
Halil Ibrahim Yakar (Istanbul, Turkey), Asiye Kanbay, Erkan Ceylan

Eosinophils and different clusters in COPD patients.
Suzana Erico Tanni (Botucatu (SP), Brazil), Jose William Zucchi, Bruna Evelyn Bueno De Morais, Thais Garcia, Luiz Henrique Soares Machado, Ana Natalia Ribeiro Batista, Estefania Aparecida Thome Franco, Irma Godoy

Clinical correlates of alveolar nitric oxide in COPD.
Alexandra Thornadtsson (Gävle, Sweden), Andrei Malinovschi, Kristina BröMs, Karin Lisspers, BjöRn Ställberg, Christer Janson, Marieann HöGman

Glycated hemoglobin (HbA1c) and acute exacerbation in chronic obstructive pulmonary disease: a potent biomarker of severity and prognosis. Preliminary data.
Evgenia Papathanassiou (ATHENS, Greece), Andriana Papaioannou , Georgios Hillas , Eleftheria Mizi , Petros Bakakos , Vasiliki Apollonatou , Galateia Verykoukou, Nikos Roussakis, Zoi Tsilogianni, Konstantinos Kostikas , Spyros Papiris , Stylianos Loukides

Characterisation of UK and US COPD populations in reference to exacerbation frequency and blood eosinophils level.
Claus Vogelmeier (Marburg, Germany), Konstantinos Kostikas, Juanzhi Fang, Bethan Jones, Christopher Morgan, Robert Fogel, Florian Gutzwiller, Hui Cao

Overnight changes in exhaled carbon monoxide levels in obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Martina Meszaros, Adrian Kis, Adam Tarnoki, David Tarnoki, Peter Horvath, Zsofia Lazar, Laszlo Kunos

The influence of different degrees of body mass index on respiratory system impedance
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Mayara Holtz De Paula, Larissa Perossi, Daniele Santos, Alessandra Lago, José António Baddini-Martinez

Blood eosinophils fluctuation in asthmatics on Omalizumab—a mirror of disease outcomes improvement?
Lília Maia Santos (Coimbra, Portugal), Bárbara Ramos, Cláudia Chaves Loureiro

Comorbidities and uncontrolled diseases in a ‘real life’ population study
Miguel Santibanez (Santander (Cantabria), Spain), José Ramón Fernández-Fonfría, Juan Carlos López-Caro, Francisca Gómez-Molleda, Borja Del Rivero Sierra, Ana Viejo, Jaime Ruiz-Pérez, Esperanza Rueda, Mariano Rodriguez, Cruz Martinez-Pérez, Roberto Garrastazu, Sandra Ortiz, Jose Fernandez-Urculo, Margarita Hierro, Juan Luis Garcia-Rivero

Clinical characteristics of the Wessex AsThma CoHort of difficult asthma (WATCH)
Heena Mistry (Southampton (Hampshire), United Kingdom), Adnan Azim, Matt A E Harvey, Yvette Thirlwall, Clair Barber, Hans Michael Haitchi, Colin Newell, Ratko Djukanovic, Peter H Howarth, Ramesh J Kurukulaaratchy

Does the nature of adult difficult asthma differ by age of onset? Findings from WATCH.
Heena Mistry (Southampton (Hampshire), United Kingdom), Anna Freeman, Yvette Thirlwall, Matt A E Harvey, Clair Barber, Hans Michael Haitchi, Colin Newell, Yueqing Cheng, Judit Varkonyi-Sepp, Ramesh J Kurukulaaratchy

Comorbidities in the difficult asthma clinic: results from WATCH
Adnan Azim (Bournemouth (Dorset), United Kingdom), Heena Mistry, Matt Ae Harvey, Yvette Thirlwall, Paddy Dennison, Anna Freeman, Colin Newell, Hans Michael Haitchi, Peter H Howarth, Ramesh Kurukulaaratchy

Does early-onset difficult asthma in adulthood differ by sex? Findings from WATCH.
Heena Mistry (Southampton (Hampshire), United Kingdom), Adnan Azim, Yvette Thirlwall, Frances Mitchell, Clair Barber, Hans Michael Haitchi, Colin Newell, Paddy Dennison, Yueqing Cheng, Ramesh J Kurukulaaratchy

Does atopy matter in difficult asthma? Results from WATCH
Adnan Azim (Bournemouth (Dorset), United Kingdom), Heena Mistry, Matt A E Harvey, Yvette Thirlwall, Judit Varkonyi-Sepp, Hans Michael Haitchi, Colin Newell, Peter H Howarth, Ramesh J Kurukulaaratchy
### Thematic poster: Translational models of the immunopathology that underlies airway obstructive diseases

| PA1090 | Inflammatory biomarkers in the evaluation of two-year outcomes of omalizumab treatment in severe allergic asthma. Joanna Hermanowicz-Salamon (Warszawa, Poland), Patrycja Nejman-Gryz, Renata Rubinsztajn |
| PA1091 | Does Exhaled Nitric Oxide Correlate with Established Measures of Asthma Severity? Nenr Eid (Louisville, United States of America), Michael Bricken, Scott Bickel |
| PA1092 | Real life study showing the epidemiological profile and adherence to treatment of patients with severe allergic asthma in use of omalizumab in the past year. Alcindo Ceri Neto (Londrina (PR), Brazil), Olavo Franco Ferreira Filho, Fatima Mitsie Chibana, Marcos Ribeiro, Renato Kaufmann, Lissa Sugehara, Pamela Passarelli, Fabiane Bijetti |
| PA1093 | Effectiveness of pulmonary rehabilitation programs on persistent asthma. Dina Visca (Mantova (MN), Italy), Elisabetta Zampogna, Enrico Heffler, Francesca Puggioni, Patrizia Pignatti, Francesca Racca, Giovanni Sotgiu, Stefano Negri, Giorgio Walter Canonica, Antonio Spanevello |
| PA1094 | Role of blood neutrophilia as a biomarker in asthma Fabio L. M. Ricciardolo (Orbassano (TO), Italy), Anna Folino, Vitina Carriero, Michela Bullone |
| PA1095 | Total IgE and Der p 1 (D1) specific IgE in induced sputum (IS) in patients with allergic and non-allergic asthma Elena Curto Sánchez (Barcelona, Spain), Astrid Crespo Lessmann, Eder Mateus Medina, Lorena Soto Retes, Alba García Moral, Montserrat Torrjón Lázaro, Alicia Belda Soler, Jordi Giner Donaire, David Ramos Barbon, Vicente Plaza Moral |
| PA1096 | Serum eosinophil cationic protein as a potential biomarker for interleukin-5 antibody treatment in patients with severe uncontrolled eosinophilic asthma. Maike Wilk (Mainz, Germany), Buhl Roland, Korn Stephanie |
| PA1097 | Prognostic value of using FeNO to guide step-down treatment decisions in asthma Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Kay Wang, Jan Verbakel, Alex Fleming-Nouri, Josh Brewin, Jason Oke, Mike Thomas |
| PA1098 | The Relationship between Fractional exhaled nitric oxide (FeNO) and Asthma Control and Asthma Severity in Asthmatic Adults in Vietnam Vinh Nguyen Nhu (Ho Chi Minh City, Vietnam), Ngoc Tran Van, Ba Nguyen Thi Thu, Mike Thomas, Christos Lionis, Niels Chavannes |
| PA1099 | Fractional exhaled nitric oxide is associated with more severe asthma Stephanie Korn (Mainz, Germany), Lucia Lanz, Stefanie Voigt, Maike Wilk, Roland Buhl |
| PA1100 | Measurement of exhaled nitric oxide: comparison of 3 different analyzers Stephanie Korn (Mainz, Germany), Maike Wilk, Stefanie Voigt, Thomas Keller, Roland Buhl |
| PA1101 | Comparison of fractional exhaled nitric oxide (FeNO) levels measured by different analysers Junpei Saito (Fukushima, Japan), Masami Kikuchi, Atsuro Fukuhara, Suguru Sato, Mami Rikimaru, Yasuhiro Suzuki, Manabu Uematsu, Ryuichi Togawa, Yuki Sato, Takefumi Nikaido, Yoshihori Tanino, Mitsuhiro Munakata, Yoko Shibata |
| PA1102 | Effect of obesity and overweight on the intestine microbiota in patients with asthma. Natalia Shaporova, Olga Dudina |

#### Session 116  12:50 - 14:40

**Thematic poster: Translational models of the immunopathology that underlies airway obstructive diseases**

**Disease(s):**  
Airway diseases  Respiratory infections  Respiratory infections

**Method(s):**  
Physiology  Cell and molecular biology  Public health

**Chairs:** Cecilia K. Andersson (London, United Kingdom), Hans Jürgen Heinrich Hoffmann (Århus, Denmark), Konstantinos Samitas (Athens, Greece), Anna Konishcheva (Moscow, Russian Federation)

| TP-24 |  
| --- | --- |
| PA1103 | Soluble ADAM33 augments the pulmonary innate immune response promoting susceptibility to allergic airway inflammation Joanne Kelly (Southampton (Hampshire), United Kingdom), Joanne Kelly, Elizabeth Davies, Xan Xu, Jeffery Whitsett, Donna Davies, Hans Michael Haitchi |
| PA1104 | Activity of an innate defence regulator peptide to alleviate airway inflammation is mitigated by disruption of its central hydrophobic region Hadeesha Piyadasa (Winnipeg (MB), Canada), Mahadevappa Hemeshkhar, Anthony Altieri, Sujata Basu, Anne M Van Der Does, Andrew J Halayko, Pieter S Hiemstra, Neeloffer Mookherjee |
Nlrc5 is involved in allergic airway inflammation and negatively regulates inflammatory signaling pathway via TLR2/NF-κB.
Rongyu Liu (Hefei (Anhui), China), Muzi Wang

Implication of NOD-1 receptor in an experimental house dust mite-induced asthma model
SALIHA AIT YAHIA (LILLE, France), Camille Audousset, Daniel Alvarez Simon, Han Vorng, Philippe Marquillies, Myriam Delacre, Mathias Chamaillard, Anne Tsicopoulos

Lactobacillus bulgaricus reduces the expression of Toll-like 4 receptor on dendritic cells and attenuates the airway inflammation in asthmatic mice
Flavio Aimibre (Sao Jose Dos Campos (SP), Brazil), Elen Anatriello, Aurileia Britto, Regiane Albertini, Ana Paula De Oliveira, Alexandre Keller

Interleukin-6 is important for the development of Acinetobacter Iwoffii-mediated protection against asthma
Daniel Piotr Potaczek (Marburg, Germany), Hani Harb, Bilal Alashkar Alhamwe, Esma Kilic-Niebergall, Dörthe Kesper, Holger Garn, Harald Renz

EFFECT OF TGF-ß AND IL-10 ON TH1/TH2 IMBALANCE IN OVA-INDUCED ASTHMA MOUSE MODEL
Jing Liu (München, Germany), Bingdi Yan, Jinyan Yu, Yanlei Li, Yanjun Xue

Role of IL-33 signaling in pollutant-induced allergic airway inflammation
Tania Maes (Ghent, Belgium), Katrien De Grove, Sharen Provoost, Harald Braun, Andrea Teufelberger, Olga Krysko, Rudi Beyaert, Guy Brusselle, Guy Joos

Resolvin E3 attenuates House Dust Mite (HDM) -induced asthmatic inflammation in a murine model
Makiko Sato (Gunma, Japan), Haruka Aoki-Saito, Hayato Fukuda, Hiroyuki Ikeda, Yasuhioko Koga, Masakiyo Yatomi, Hiroaki Tsurumaki, Yoshimasa Hachisu, Takashi Nakakura, Tetsuya Mori, Kunio Dobashi, Masanobu Yamada, Satoshi Shuto, Takeshi Hisada

House dust mite impairs viral stimulus-induced IL-8 and TNF-a production in bronchial epithelial cells from asthmatics
Samuel Cerps (LUND, Sweden), Sangeetha Ramu, Cecilia Andersson, Hamid Akbarshahi, Asger Sverrild, Celeste Porsbjerg, Lena Uller

IL-4 induces collective cell migration in the well-differentiated human nasal epithelia cell layers via avß5 and avß6 integrins
Sang-Nam Lee (Seoul, Republic of Korea)

Validation of a macrophage specific cell line for the development of an in vitro lower airways co-culture model
Abigail Martin (Hatfield (Hertfordshire), United Kingdom), Victoria Hutter, David Chau, Darragh Murnane

Extracellular Hsp70 alters cigarette smoke-induced pro-inflammatory responses in human macrophages
Lada Rumora (Zagreb, Croatia), Andrea Hulina, Lucija Franin, Martina Bosnar, Irene Heijink

Proteomic profiling to define synergistic responses mediated by IL-17 and TNFa in the lungs
Anthony Altieri (Winnipeg (MB), Canada), Hadeesha Piyadasa, Victor Spicer, Andrew J. Halayko, Neeloffer Mookherjee

IL-17A producing lymphocytes in end stage lung disease
Anna-Maria Dittrich (Hannover, Germany), Melanie Albrecht, Deji Ishola Olawusein, Sophia Pallenberg, Peter Braubach, Danny Jonigk, Gregor Warnecke, Gesine Hansen

Mechanism of NK1-mediated bronchoconstriction in passively sensitized human lung tissue.
Susann Dehmel (Hannover, Germany), Sharon Delgado, Helena Obernolte, Stella Marie Reamon-Buettner, Danny Jonigk, Olaf Pfennig, Peter Braubach, Gregor Warnecke, Hans-Gerd Fieguth, Katharina Sewald, Armin Braun

SUPPRESSIVE EFFECT OF MESENCHYMAL STEM CELLS ON AIRWAY REMODELING IN VITRO
Ruben Osuna Gomez (Igualada, Spain), Eder Freddy Mateus, Cristina Ujaldón Miró, Vicente Plaza Moral, David Ramos Barbón

Session 117 12:50 - 14:40

Thematic poster: Role of IgE and interleukin (IL)-5 in Th2-cell signatures
Method(s): Epidemiology Respiratory intensive care Imaging General respiratory patient care Cell and molecular biology
Chairs: Zuzana Diamant (Lund, Sweden), Trudeke G.M. Möller (Apeldoorn, Netherlands), Celeste M. Porsbjerg (København, Denmark), Ibon Eguiluz Gracia (Malaga, Spain)
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<th>Abstract ID</th>
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<tr>
<td>PA1123</td>
<td>Late Breaking Abstract - Revisiting interpretation of blood eosinophil counts (BECs): data from Brazil</td>
<td>Namhee Kwon (Brentford (Middlesex), United Kingdom), Emilio Pizzichini, Aruna Bansal, Frank Albers, Neil Barnes, John Riley, Aline Lima-Matos, Eduardo Ponte, Alvaro Cruz</td>
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<td>PA1124</td>
<td>Dupilumab improves asthma-related patient reported outcomes in asthma patients with chronic rhinosinusitis or nasal polyposis (CRS/NP) in LIBERTY ASTHMA QUEST</td>
<td>Mario Castro (St. Louis, United States of America), Jonathan Corren, Jorge F. Maspero, Antonio L. Valero Santiago, Piotr Kuna, Sophie Guillonneau, Qunming Dong, Christine Taniou, Heribert Staudinger, Jingdong Chao, Nikhil Amin, Gianluca Pirozzi, Marcella Rudy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper, Asif Khan</td>
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<tr>
<td>PA1125</td>
<td>Dupilumab improves SNOT-22 scores in asthma patients with chronic rhinosinusitis or nasal polyposis (CRS/NP) in LIBERTY ASTHMA QUEST</td>
<td>William Busse (Madison, United States of America), Jorge F. Maspero, Contance H. Katelaris, Dinesh Saralaya, Sophie Guillonneau, Bingzhi Zhang, Christine Taniou, Heribert Staudinger, Jingdong Chao, Nikhil Amin, Gianluca Pirozzi, Marcella Rudy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper, Asif Khan</td>
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<td>PA1126</td>
<td>Assessment of Efficacy Omalizumab Retreatment in Patients With Severe Asthma</td>
<td>Yavuz Havlucu (Manisa, Turkey), Arzu Yorgancioglu</td>
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<td>PA1127</td>
<td>IMPACT OF OMALIZUMAB ON ALLERGIC ASTHMA - THE LAST 10 YEAR</td>
<td>Maria Raquel Araújo Pereira (Braga, Portugal), Inês Ladeira, Ricardo Lima, Inês Franco, Ivone Pascoal, Aurora Carvalho</td>
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<td>PA1128</td>
<td>The effect of omalizumab on blood eosinophils count in patients with hypersensitivity to non-steroidal anti-inflammatory drugs (NSAID) compared to patients who tolerate NSAID - pilot study</td>
<td>Izabela Kupryś-Lipińska (Lódź, Poland), Lucyna Mastalerz, Pawel Majak, Katarzyna Tryrak, Joanna Molinska, Mateusz Jonakowski, Zofia Kurmanowska, Marta Latek, Damian Krzyzanowski, Aleksandra Zal, Piotr Kuna</td>
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<td>PA1129</td>
<td>Is omalizumab response influenced by passive smoking in severe asthma?</td>
<td>Jose Miguel Chatkin (Porto Alegre (RS), Brazil), Daniela Cavalet Blanco, Lais Martins Becher, Luciana Zani Da Silva, Cynthia Rocha Dullius, Fabiane Kahan, Sabrina Rocha Machado</td>
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<td>PA1130</td>
<td>Patients eligible for anti-IL-5/anti-IL-5Ra treatment in a cohort of adult-onset asthma</td>
<td>Pinja Ilmarinen (Seinäjoki, Finland), Leena E Tuomisto, Onni Niemelä, Hannu Kankaanranta</td>
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<td>PA1131</td>
<td>Effectiveness of anti-IgE and anti-IL-5 treatment in step 5 asthma patients.</td>
<td>Junko Saji (Kanagawa, Japan), Hiromi Muraoka, Erika Nishimoto, Shin Matsuzawa, Mariko Okamoto, Teppei Inoue, Hiroshi Handa, Hiroki Nishino, Terumi Miyazawa, Masamichi Mineshita</td>
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<td>PA1132</td>
<td>Increase in systemic IL-5 is associated with mepolizumab treatment failure in patients with severe asthma</td>
<td>Sabina Skrgat (Golnik, Slovenia), Petra Girandon Sušanj, Žurka Vidovec Stojković, Peter Korosec</td>
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<td>PA1133</td>
<td>Change of lung function in severe eosinophilic asthma undergoing treatment with anti-interleukin-5 monoclonal antibody</td>
<td>Leonardo Antonicelli (Ancona (AN), Italy), Alessandro Gobbi, Maria Beatrice Bilò, Maria Stella Garritani, Maria Feliciana Brianzoni, Raffaele Dellacà</td>
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<td>PA1134</td>
<td>Asthma rehabilitation at high vs. low altitude and its impact on exhaled nitric oxide and sensitization patterns: randomized parallel-group trial</td>
<td>Silvia Ulrich (Zurich, Switzerland), Stéphanie Saxer, Simon Schneider, Mona Lichtblau, Patrick Bader, Paula Appenzeller, Bermet Estebesova, Berik Emilov, Talant Sooronbaev, Sara Micaletto, Peter Schmid-Grendelmeier, Konrad Bloch</td>
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<td>PA1135</td>
<td>Increased Severity of Asthma in Atopic Patients with Eosinophilic Granulomatosis with Polyangiitis</td>
<td>Alvise Berti (Milan, Italy), Gerald Volcheck, Divi Cornece, Robert Smyth, Ulrich Specks, Karina Keogh</td>
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<td>PA1136</td>
<td>Application of the ISHAM criteria for diagnosis of ABPA in a clinical cohort at a university teaching hospital</td>
<td>Radhika Banka (Mumbai (Maharashtra), India), Ajay Kamath</td>
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<td>PA1137</td>
<td>Effectiveness of itraconazole and systemic steroids in the treatment of ABPA</td>
<td>Kshitij Agarwal (New Delhi (Delhi), India), Gaurav Bhati, Gulvir Singh, S. N. Gaur, Anuradha Chowdhary</td>
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<td>PA1138</td>
<td>The significance of plasma exchange in double-positive for ANCA and anti-GBM disease</td>
<td>Kazuko Uto (Miyazaki, Japan), Shigevisa Yanagi, Nobuhiro Matsumoto, Masamichi Munesita</td>
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<td>PA1139</td>
<td>Comparison of sIgG4 levels among allergic patients and patients during ASIT</td>
<td>Guzel Feyzkanova (Moscow, Russian Federation), Olga Smolovskaya, Sergei Voloshin, Ludmila Pavlushkina, Eugenia Antonova, Tatiana Filatova, Alexander Zasedatelev, Alla Rubina</td>
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<td>PA1140</td>
<td>Immunoglobulin G4-related pneumonitis and myositis: an atypical presentation of an atypical case.</td>
<td>Neel Thakkar (Vadodara (Gujarat), India), Amita Nene</td>
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Alpha-1 antitrypsin deficiency and pulmonary morbidity in patients with primary immunodeficiency disease: A single center experience
Georg Evers (Münster, Germany), Arik Bernard Schulze, Michael Thrull, Georg Lenz, Lars Henning Schmidt, Michael Mohr

Immuo-allertypes in non-cystic fibrosis bronchiectasis

Thematic poster: Epidemiology of asthma and allergy: prevalence, incidence and risk factors

Disease(s): Airway diseases
Method(s): Respiratory intensive care  General respiratory patient care  Epidemiology  Public health
Chairs: Valerie Siroux (La Tronche, France), Benedicte Leynaert (Paris, France), Cecilie Svanes (Bergen, Norway), Helena Backman (Lulea, Sweden)

Late Breaking Abstract - NORdie Database for aSThma Research (NORDSTAR): Swedish and Finnish patients

Use of aerobiological information systems in pollen allergy management
Sandra Baldacci (Pisa (PI), Italy), Sara Maio, Marzia Simoni, Anna Angino, Patrizia Silvi, Stefania La Grutta, Giovanni Vieg, Franco Ruggiero, Gianni Bedini, Francesca Natali, Lorenzo Cecchi, Marija Pretovic, Uwe Berger, Amir Moustafa, Isabella Annesi-Maesano, Samuel Monnier, Michel Thibaudon, Simone Orlandini

IgE-sensitization profiles and lung function: a longitudinal study from childhood to early adulthood in the EGEA study
Valérie Siroux (La Tronche, France), Anne Boudier, Christian Lupineck, Jocelyne Just, Rachel Nadif, Rudolf Valenta, Jean Bousquet, Isabelle Pin

Age-specific incidence of new asthma diagnosis from childhood to late adulthood
Jasmin Honkamäki (Tampere, Finland), Hanna Hisinger-Molkmanen, Pinja Ilmarinen, Paivi Pirilä, Leena E Tuomisto, Heidi Andersen, Heini Huhtala, Anssi Sovijarvi, Helena Backman, Bo Lundback, Eva Ronmark, Lauri Lehtimäki, Hannu Kankaanranta

Incidence and risk factors for asthma from childhood to young adulthood
Linnea Hedman (Luleå, Sweden), Helena Backman, Caroline Stridsman, Martin Andersson, Eva Rönmark

Prevalence of asthma among pregnant women in Ilorin, Nigeria
Olutobi Ojuawo (Ilorin (Kwara State), Nigeria), Olufemi Desalu, Kikelomo Adesina, Idowun Ogunlaja, Wemimo Alaofin, Adeniyi Aladesanmi, Christopher Opeyemi, Taofeek Oloyede, Micheal Oguntowe, Alakija Salami

Association between cured meat intake and asthma symptoms
Roland Michel Andriansasolo (Boighbny, France), Emmanuelle Kesse-Guyot, Adjibade Moufidath, Serge Hercberg, Pilar Galan, Raphaelle Varraso

Does Body Mass Index and asthma affect work ability? Cross-sectional data from the general population in Telemark, Norway.
Geir Klepaker (Skien, Norway), Martin Veel Svendsen, Jens Kristoffer Hertel, Johny Kogerud, Anne Kristin Moller Fell

Burden of pollen allergy in 3 European countries: AIS LIFE project
Sandra Baldacci (Pisa (PI), Italy), Sara Maio, Marzia Simoni, Anna Angino, Patrizia Silvi, Stefania La Grutta, Giovanni Vieg, Franco Ruggiero, Gianni Bedini, Francesca Natali, Lorenzo Cecchi, Marija Pretovic, Uwe Berger, Amir Moustafa, Isabella Annesi-Maesano, Samuel Monnier, Michel Thibaudon, Simone Orlandini

Airway inflammation and lung function in atopic and non-atopic rhinitis
Mario Olivieri (Verona (VR), Italy), Pierpaolo Marchetti, Salvatore Battaglia, Francesca Locatelli, Roberta Vesentini, Marcello Ferrari, Giuseppe Verlato

Allergic multi-morbidity is associated with an increased risk of asthma in adults: a population-based case control study
Sanna Toppila-Salmi (Helsinki, Finland), Sebastien Chanoine, Jussi Karjalainen, Juha Pekkanen, Jean Bousquet, Valérie Siroux
Age at asthma diagnosis in subjects with and without allergic rhinitis.
Johanna Pakkasela (Tampere, Finland), Pinja Ilmarinen, Jasmin Honkamaki, Leena E Tuomisto, Heidi Andersen, Paivi Piirila, Hanna Hisinger-Molkanen, Anssi Sovijarvi, Helena Backman, Bo Lundback, Eva Ronmark, Hannu Kankaanranta, Lauri Lehtimaki

An observational study to characterize severe eosinophilic asthma in New Zealand
Yu-Fan Ho (Singapore, Singapore), Sumitra Shantakumar, Janine Beale, Barry Gribben

Unbiased clinical cluster analysis across a combined European and a Brazilian severe asthma (SA) population.
John Riley (Uxbridge (Middlesex), United Kingdom), Aruna Bansal, Eduardo Ponte, Adelmir Souza-Machado, Paula Almeida, Valmar Biao-Lima, Stewart Bates, Kian F-Chung, Peter Sterk, Alvaro A.Cruz

Societal costs of severe asthma in Sweden
Sven-Arne Jansson (Umeå, Sweden), Helena Backman, Maria Andersson, Gunilla Telg, Anne Lindberg, Britt-Marie Eklund, Bo Lundbäck, Eva Rönmark

Age-of-asthma onset and epidemiological characteristics of late-onset asthma in a general population
Ha-Kyeong Won (Seoul, Republic of Korea), Jung-Hyun Kim, Sung-Yoon Kang, Min-Gyu Kang, So-Hee Lee, Sun-Sin Kim, Yoon-Seok Chang, You Sook Cho, Sang-Heon Cho, Woo-Jung Song

Male sex, younger age and smoking contribute to low participating rate in an epidemiological study of asthma and respiratory symptoms
Petri Räisänen (Luleå, Sweden), Helena Backman, Sven-Arne Jansson, Linnea Hedman, Caroline Stridsman, Bo Lundbäck, Anne Lindberg, Eva Rönmark

Prevalence of asthma and allergy-related diseases among adolescents of West Bengal, India: Results of the PERFORMANCE study
Saibal Moitra (Kolkata (West Bengal), India), Prasun Haldar, Santi Gopal Maity, Soumya Bhattacharjee, Smriti Debnath, Sujoy Saha, Ritabratra Mitra, Isabella Annesi-Maesano, Judith Garcia-Aymerich, Subhabrata Moitra

The prevalence of bronchial asthma symptoms among adult population of Moscow (a population-based study).
Maryana Tubeckova (Moscow, Russian Federation), Maryana Tubeckova, Tatiana Bilichenko

Asthma and allergic rhinitis increase respiratory symptoms and disability in cold weather
Henna Hyrkäs-Palmu (University of Oulu, Finland), Tiina Ikäheimo, Tiina Laatikainen, Pekka Jousilahti, Maritta Jaakkola, Jouni Jaakkola

Late Breaking Abstract - Inhaled corticosteroids (ICS), blood eosinophils (EOS), and FEV1 decline in patients with Chronic Obstructive Pulmonary Disease in a large UK primary healthcare setting
Hannah Whittaker (London, United Kingdom), Hana Mullerova, Deborah Jarvis, Neil Barnes, Paul Jones, Chris Compton, Steven Kiddle, Jennifer Quint

Eligibility for lung volume reduction surgery in COPD patients identified in a UK primary care setting
Hannah Whittaker (London, United Kingdom), Olivia Connell, Amany Elbehairy, Jennifer Campbell, Nick Hopkinson, Jennifer Quint

The same COPD patients, different GOLD criteria – what are the consequences of changing GOLD 2007-2011-2017 recommendations?
Grzegorz Brozek (Katowice, Poland), Narcin Nowak, Jankowski Mateusz, Jan Zejda

Underweight and weight loss are associated with greater mortality from chronic obstructive pulmonary disease (COPD) in middle-aged Japanese: The JACC study
Hiroo Wada (Tokyo, Japan), Ai Ikeda, Koutatu Maruyama, Kazumasa Yamagishi, Takeshi Tanigawa, Akiko Tamakoshi, Hiroyasu Iso

How are recovery and recurrence of COPD exacerbations defined in observational studies? A systematic review
Wilhelmine Meeraus (Uxbridge (Middlesex), United Kingdom), Victoria S Benson, Maggie Tabberer, William A Fahy, Hana Mullerova
Clinically relevant differences in COPD health status: systematic review and triangulation
Harma J. Mol-Alma (Groningen, Netherlands), Corina De Jong, Ioanna Tsiligianni, Robbert Sanderman, Janwillem Kocks, Thys Van Der Molen

Lower airway bacterial colonization patterns and species-specific interactions in COPD
Sanjay Sethi (Buffalo, United States of America), David Jacobs, Heather Ochs-Balcom, Jiwei Zhao, Timothy Murphy

Elevated serum high-sensitivity cardiac troponin I is related to mortality in COPD
Ulf Nilsson (Umeå, Sweden), Anders Blomberg, Nicholas Mills, Eva Rönmark, Anne Lindberg

Systematic review of COPD re-exacerbation and exacerbation treatment failure definitions used in randomised controlled trials (RCTs)
Wilhelmine Meeraus (Uxbridge (Middlesex), United Kingdom), Hana Mullerova, Maggie Tabberer, William A Fahy, Victoria S Benson

Blood eosinophils and obstructive lung disease in the general population
Sara Wijnant (Gent, Belgium), Lies Lahousse, Marc De Buyzere, Guy Brusselle, Ernst Rietzschel

Factors associated with airflow limitation in a population-based cohort of adults from the greater Copenhagen area
Camilla Bárnes (Holbæk, Denmark), Betina Thuesen, Allan Linneberg, Charlotte Suppli Ulrik

Sarcopenia in elderly population with chronic respiratory diseases: A population-based study
G. Elizabeth Benz I (Rotterdam, Netherlands), Katerina Trajanoska, Josje Schoufour, Lies Lahousse, Emmely De Roos, Natalie Terzikhan, Bruno Striker, Oscar Franco, Fernando Rivadeneira, Guy Brusselle

Description of the UK’s asthma and COPD inhaler use
Chloe Bloom (London, United Kingdom), Ian Douglas, Liam Smeeth, Jenni Quint

Asthma-COPD overlap syndrome (ACOS) among subjects with newly diagnosed adult-onset asthma
Maritta S Jaakkola (Oulu, Finland), Ying-Chuan Wang, Taina K Lajunen, Ching-Huang Lai, Jouni J K Jaakkola

Uric acid, lung function, physical capacity and exacerbation frequency in patients with COPD: a multi-dimensional approach
Peter Alter (Marburg, Germany), Kathrin Kahnert, Tobias Welte, Rudolf M. Huber, Jürgen Behr, Frank Biertz, Henrik Watz, Robert Bals, Claus F. Vogelmeier, Rudolf A. Jöres

Association between interpersonal and environmental factors and health-related quality of life in patients with chronic obstructive pulmonary disease (COPD)
Subhabrata Moitra (Barcelona, Spain), Marta Benet, Ane Arbillaga-Etxarri, Archie Martin, Ana Barberan-Garcia, Eulália Borrell, Diego Rodriguez, Elena Gimeno-Santos, Eva Balcells, Maria Koreny, Mónica Monteagudo, Pere Torán-Montserrat, Pere Valls-Casas, Robert Rodriguez-Roisin, Judith Garcia-Aymerich

C-reactive protein level and risk of developing COPD: The Kangbuk Samsung Cohort Study
Seong Yong Lim (Seoul, Republic of Korea), Di Zhao, Eliseo Guallar, Yoo-soo Chang, Seungho Ryu, Jung Yeon Shim

Magnitude and characteristics of COPD mortality in Kenya, 2012-2016
Grace Kariuki (Nairobi, Kenya), Gladwell Gathecha

Thematic poster: Occupational and environmental lung diseases: mechanisms, biomarkers and causation

Disease(s) : Airway diseases, Interstitial lung diseases
Method(s) : Epidemiology, General respiratory patient care, Physiology, Cell and molecular biology, Public health

Chairs: Sherwood Burge (Solihull (West Midlands), United Kingdom), Orianne Dumas (Villejuif, France), Paul Cullinan (London, United Kingdom), Vicky Moore (Birmingham (West Midlands), United Kingdom)

Right ventricular function and endothelium-derived mediators in occupational chronic obstructive pulmonary disease.
Lyubov Shpagina (Novosibirsk, Russian Federation), Olga Kotova, Ilya Shpagin, Oksana Gerasimenko, Galina Kuznetsova

Exposure/Effect Biomarkers and Respiratory Adverse Outcomes in Metal Plating Workers
Felicia Gradinaru (Iasi, Romania), Irina Anca Popescu, Rasvan Danulescu, Ovidiu Petris, Viorel Cazuc
Thematic poster: Occupational and environmental lung diseases: influence on the airway and interstitium
Disease(s): Airway diseases, Interstitial lung diseases, Thoracic oncology
Method(s): Imaging, Physiology, Public health, Epidemiology, General respiratory patient care
Chairs: Paul K. Henneberger (Morgantown, United States of America), Ruth Wiggans (Manchester (Greater Manchester), United Kingdom), Torben Sigsgaard (Århus, Denmark), Metin Akgün (Erzurum, Turkey)

PA1202 A new cause of work-related asthma: pyromelittic dianhydride
Jesper Baelum (Odense C, Denmark), David L. Sherson, Milene Madsen, Lars Skadhauge, Anders D Nielsen

PA1203 Kebab restaurant workers: A Risky Business
Zafer Hasan Ali Sak (Sanliurfa, Turkey), Serif Kurtulus, Birsen Oacakli, Ibrahim Bayhan, M.Irfan Yesillncar, Peri Arbak

PA1204 Interstitial lung disease in seven construction worker who built an extension on hydrofluoric gas manufacturing factory
Mi Yeon Kim (Incheon, Republic of Korea), Daeho Kim, Jung-Ah Shin, Hee Kyung Ahn, Byung-Soon Choi

PA1205 Occupational COPD and smoking— A matter of inhalation?
Else Würtz (Tjele, Denmark), Charlotte Brasch-Andersen, Rudi Steffensen, Jens Georg Hansen, Tine Halsen Malling, Vivi Schlunssen, Oyvind Oumls

PA1206 Increase in isocyanate-induced occupational asthma in Czech Republic
Pavlina Klusáčková (Práha, Czech Republic), Bronislava Viest, Jindriska Lebedová, Tomáš Navrátil

PA1207 Obesity modifies the effect of WTC exposure on quantitative chest CT measured airway wall thickness
Rafael E. de la Hoz (New York, United States of America), Xiaoyu Liu, John T. Doucette, Yunho Jeon, Juan C. Celedón, Raúl San José Estépar

PA1208 Early UK experience of referred cases of possible silicosis following updated guidance on silica health surveillance
David Fishwick (Sheffield (South Yorkshire), United Kingdom), Chris M Barber, Mohamed Kamil

PA1209 Distribution of sensitizer-induced occupational asthma in R. Macedonia by occupation in the period 2005-2017
Jordan Minov (Skopje, FYROM (Macedonia)), Jovanka Karadzinska-Bislimovska, Sasо Stoleski, Dragan Mijakoski, Aneta Atanasovska

PA1210 Exhaled nitric oxide in mustard airway disease
Rasoul Aliannejad (Tehran, Islamic Republic of Iran), B. Fatemeh Nobakht M.Gh.

PA1211 Late onset findings of paranasal sinuses CT & lung HRCT scan after Mustard gas inhalation
Maryamosadat Moeini Azad Tehrani (Tehran, Islamic Republic of Iran)

PA1212 Comparison of number of asbestos bodies in formalin fixed lung tissue and paraffin block
Holger Dressel (Zürich, Switzerland), Barbara Kuhn, Fabio Barresi, Bart Vrugt

PA1213 Assessment of the incidence and risk factors of coal-worker’s pneumoconiosis (CWP) in Silesia, Poland
Renata Zlotkowska (Katowice, Poland), Alina Mroczek

PA1214 Complications of Occupational Silicosis (OS)
Maher Maoua (Sousse, Tunisia), Asma Chouchane, Aicha Brahem, Haifa Aroui, Imen Kacem, Sana El Guedri, Houda Kalboussi, Olfa El Maalel O, Souheil Chatti, Nejib Mrizak

PA1215 Occupational diseases as a metaphor: do not cough!
Ayşе Coşkun Beyan (İZMİR, Turkey), Yucel Demiral, Serhat Erdal

PA1216 Outbreak of asthma, rhinitis and skin symptoms in processing of polyvinyl chloride-polyurethane (PVC-PU) fabrics
Irmeri Lindström (Helsinki, Finland), Hille Suojalehto, Katri Suuronen

PA1217 Lung Function Decline In Occupational Asthma (OA): A Comparison of Irritant-Induced Asthma and Sensitising OA.
Maximillian Thomas (Birmingham (West Midlands), United Kingdom), Vicky Moore, Gareth Walters

PA1218 Infant lung growth is associated with exposure to oxides of nitrogen
Nithiseelan Rajen Naidoo (Durban, South Africa), Prakash Jeena, Sheena Muttoo, Karesha Asharam, Aweke Mitku

PA1219 A case of unsuspected hard metal lung disease in a thermal sprayer in NSW, Australia
Deborah Yates (Sydney (NSW), Australia), Samuel Sameh, Elizabethine Silverstone, Robert A Cohen, Jerrold L Abraham, Somya Sanyal, Tracy A Smith

PA1220 Longitudinal observation of firefighter lung function over nine years using impulse oscillometry
Flynn Slattery (Adelaide (SA), Australia), Kylie Johnston, Catherine Paquet, Alan Crockett
**Session 122**

12:50 - 14:40

**Thematic poster: Tobacco use and cessation interventions in patients with respiratory, cardiovascular and mental health problems and other populations**

**Disease(s):** Airway diseases, Sleep and breathing disorders, Respiratory infections, Respiratory infections

**Method(s):** Physiology, Epidemiology, General respiratory patient care, Public health, Cell and molecular biology

**Chairs:** Sofia Belo Ravara (Covilhã, Portugal), James Allinson (London, United Kingdom), Keir E. Lewis (Llanelli (Dyfed), United Kingdom), Athina Diamanti (Pefki, Greece)

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**PA1221**

**Occupational asthma in a mycologist**
Sherwood Burge (Solihull (West Midlands), United Kingdom), Gareth Walters, Vicky Moore, Alastair Robertson, Max Thomas

**TP-30**

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**PA1222**

Active and passive smoking during pregnancy
Athina Diamanti (Pefki, Greece), Vasilios Raftopoulos, Katerina Lykeridou, Aiakaterini Daliani, Stamatiia Giannareli, Stamatina Palaio, Sotiria SchoretSANI, Efthimios Zervas, Christina Gratziou, Paraskevi Katsaounou

**PA1223**

Effect of a short tobacco cessation intervention among pregnant women: pilot results of the TOB-G project
Constantine Vardavas (Athens, Greece), Theodosia Peleki, Victoria Vivilaki, Vergina Vyzikidou, Sophia Papadakis, Andriani Loukopoulos, Vaso Evangelopoulou, Panagiotis Behrakis

**PA1224**

smoking cessation program: where do our patients come from?
Ana Santos (Porto, Portugal), Inês Oliveira, Joana Carvalho, Rafaela Campanha, Cátia Guimarães, Marta Fradinho, Cristina Matos, Fernando Nogueira

**PA1225**

Characteristics of the patient who is successful or not in stopping smoking
Raul Godoy Mayoral (Albacete, Spain), Francisco Javier Callejas González, Ana Tornero Molina, Marta Genovés Crespo, Rafaela Sánchez Simón Talero, Patricia Lopez Miguel, Pedro Juan Tarraga Lopez

**PA1226**

Treatment adherence and short term outcomes of smoking cessation outpatient clinic patients
Dilek Karadoğan (Rize, Turkey), Özgüür Ünal, Deniz Say şAhin, Yalçın Kanbay, Sebih Alp, ünal şAhin

**PA1227**

Adherence to a blended smoking cessation treatment
Marjolein Brusse-Keizer (Enschede, Netherlands), Lutz Siemer, Marloes Postel, Somaya Ben Allouch, Angelos Patrinopoulos, Robbert Sanderman, Marcel Pieterse

**PA1228**

How does reimbursement status affect the smoking cessation interventions?
Dilek Karadoğan (Rize, Turkey), Dilek Karadogan, Özgüür Ünal, Yalçın Kanbay

**PA1229**

Supporting recruitment of community pharmacies for the STOP trial training using an embedded recruitment model (Russian doll approach)
Wai Yee James (London, United Kingdom), Sandra Junbe, Vichithranie Madurasinghe, Sandra Eldridge, Stephanie Taylor, Colin Houlihan, Chris Griffiths, Robert Walton

**PA1230**

Smoking and severe persistent asthma
Paraskevi Katsaounou (Athens, Greece), Mikaela Odemry, Otto Spranger, Anne Lindberg, Michael E Hyland, Matthias Gasser, Michael Larbig, Ioannis Kottakis, Xavier Jaumont, Ismail Kasujiie

**PA1231**

Analysis of the ratio of ACO in elderly and non-elderly asthmatics with a history of smoking
Akinori Ebihara (Tokyo, Japan), Asuka Nagai, Tokuzen Iwamoto, Ichio Kuwahira

**PA1232**

Smoking cessation among COPD and asthma patients: burden vs. motivation
Tomi Kovačević (Sremska Kamenica, Republic of Serbia), Zorica Zorić, Darijo Bokan, Mirjana Jovančević Drvenica, Sanja Hromiš, Biljana Zvezdin, Ilija Andrejević, Ivan Koptović, Branimir Perin, Panagiotis Bamidis

**PA1233**

Does chronic obstructive pulmonary disease (COPD) impact on women smoking cessation approach?
Halima Ben Salem (Sousse, Tunisia), Hadhemi Rejeb, Mouna Ben Khelifa, Rania Kaddoussi, Seri Jdidi, Wafa Benzarti, Sana Aissa, Imen Gargouri, Ahmed Abdelghani, Abdelhamid Garrouche, Abdelaziz Hayouni, Mohamed Benzarti

**PA1234**

“Lung age” – a motivational smoking cessation tool in smokers with chronic obstructive pulmonary disease
Ioana Porosnicu (Iasi (Iasi), Romania), Letitia Trofor, Cristina Vicol, Ionela Alina Grosu, Alexandra Tifrea, Constantine Vardavas, Panagiotis Behrakis, Antigona Trofor

**PA1235**

The effect of bupropion on smoking cessation and sleep physiology in COPD and asthma patients
Darijo Bokan (Sremska Kamenica, Republic of Serbia), Mirjana Jovančević Drvenica, Tomi Kovacevic, Darijo Zoric, Sanja Hromis, Biljana Zvezdin, Ivan Koptotvic, Ilija Andrejevic, Branimir Perin, Panagiotis Bamidis

**PA1236**

An Evaluation of a Smoking Cessation Service in a Regional Cardio-Thoracic Centre.
Deborah Beach (Harefield, United Kingdom), Tessa Jolliffe, Claire Chalwin, Jaymin Morjaria
| PA1237 | The impact of tobacco cessation on the evolution of patients with non-ST-elevation acute coronary syndromes. | Rim khemakhem (sfax, Tunisia), Nouha Ayedi, Nessrine Kammoun, Walid Feki, Najla Bahloul, Nedia Moussa, Ilhem Yangui, Hajer Ayedi, Sami Kammoun, Rania Hammami, Samir Kammoun |
| PA1238 | Smoking in individuals with HIV/AIDS: a qualitative-quantitative approach | Ilda de Godoy (Botucatu (SP), Brazil), Ligia Lopes Devóglio, Irma Godoy |
| PA1240 | Does depression disorder have an important impact in smoking cessation? | Ana Cláudia Rodrigues Vieira (Almada, Portugal), Joana Ferra, Cristina Matos, Fernando Nogueira |
| PA1241 | HTR2A genetic variants as risk factors for cigarette smoking at an early age and relapse to smoking cessation treatment. | Gloria Pérez-Rubio (México, Mexico), Luis Alberto López-Flores, Salvador Garcia-Carmona, Leonor García-Gómez, Valeri Noé-Díaz, Enrique Ambrocio-Ortiz, Karol J Nava-Quiroz, Fernando Morales-González, Alma D. Del Angel-Pablo, Alejandra Ramírez-Venegas, Ramcés Falfán-Valencia |

**TP-31**  
**Session 123**  
**12:50 - 14:40**

**Thematic poster: Effect of tobacco use on health**

**Disease(s):** Airway diseases, Thoracic oncology, Sleep and breathing disorders  
**Method(s):** Respiratory intensive care, Cell and molecular biology, Imaging, General respiratory patient care, Physiology, Public health, Epidemiology  
**Chairs:** Philip Tønnesen (Glostrup, Denmark), Simon D. Pouwels (Groningen, Netherlands), Thais Garcia (Botucatu (SP), Brazil), Charlotta Pisinger (Glostrup, Denmark)  

| PA1242 | Change in crackle characteristics among male adult smokers | Surussawadi Bennett (Khon Kaen, Thailand), Siwimon Kaju, Michael Bennett |
| PA1243 | Effects of smoking on respiratory problems and functional levels in multiple sclerosis patients | Ridvan Aktan (balcova (izmir), Turkey), Sevgi Ozalevli |
| PA1244 | Urinary cotinine predicts pulmonary morbidity in children exposed to passive smoking | Wael Abd El Fattah (Cairo, Egypt), Hedya Mohammed, Abla Araf |
| PA1245 | Lung function parameters in healthy young smokers and nonsmokers – do they reach their maximal values? | Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Atanas Angelov, Victoria Kostadinova, Stefan Kostianev |
| PA1247 | Nicotine-induced morphological reconstruction of upper airways in chronic smokers | Vera Nezvorova (Primorsky Krai, Russia), Evgeniy Gilifanov, Sergey Artyushkin, Tatyana Tilik |
| PA1248 | ACUTE HEART EFFECTS OF NICOTINE IN SMOKERS AND THEIR RELATIONSHIP WITH TOBACCO DEPENDENCY. | Jose Belda (valencia, Spain), Susana Calvo, Vicente Macian |
| PA1249 | Effect of smoking cessation in myocardial triglyceride deposition and cardiac function assessed by protons spectroscopy technique | Suzana Erico Tanni (Botucatu (SP), Brazil), Thais Garcia, Ana Natalia Ribeiro Batista, Alejandra Villanueva Mauricio, Jose William Zuchi, Paula Schmidt Azvedo Gaiola, Sergio Alberto Ruppa Paiva, Irma De Godoy |
| PA1250 | Investigation of the Relationship Between Carbon monoxide Level, Amount of Cigarette Consumption, Cardiopulmonary Exercise Test and Pulmonary Function Test Results in Smoking Healthy Subjects | Hazal Yakut (Izmir, Turkey), Sevgi Ozalevli, Oğuz Kilinc |
| PA1251 | Effects of smoking on exercise capacity, exercise dyspnea and pulmonary functions in healthy individuals | Begum Uulu (Istanbul, Turkey), S. Ufuk Yurdalan, Murat Ozturk, Elif Yildirim |
| PA1252 | SMOKERS WITH NORMAL FEVI/CVF: HOW COMMON IS EMPHYSEMA AND CHANGES IN DLCO | LUCIANA ZANI DA SILVA (PORTO ALEGRE, Brazil), Daniela Cavalet Blanco, Thais Ribeiro, Jose Miguel Chatkin |
| PA1253 | Deleterious role of anti-hsp70 on immune system in chronic asymptomatic smokers | Thiago Mychell Moreira Santos (Botucatu (SP), Brazil), Irma Godoy, João Paulo Castro Marcondes, Suzana Erico Tanni Minamoto, Thais Garcia, Felip Burgo, Ilda Godoy |
| PA1254 | The effect of smoking on the body composition according to bioimpedance the indigenous inhabitants of the Arctic zone of Western Siberia | Irina Protasova (Nadym (Yamal-Nenets), Russian Federation), Andrei Popov, Andrei Lobanov, Sergey Andronov, Ruslan Kochkin, Elena Bogdanova |
Effect of smoking on changes in exhaled breath temperature secondary to exogenous hypoxia
Peter Dimov (Plovdiv, Bulgaria), Zdravko Taralov, Aneliya Draganova, Blagoi Marinov

Impact of smoking in quality of life and sleep: a prospective study
Catarina Carvalho Cordes Amaral Barata (Lisbon, Portugal), Rita Rosa, Inês Oliveira, Joana Carvalho, Marta Fradinho, Luisa Oliveira, Fernando Nogueira

Impact of nicotine abuse on sleep physiology
Mirjana Jovančević Drvenica (Novi Sad, Republic of Serbia), Darijo Bokan, Tomi Kovacevic, Ivan Kopitovic, Bojan Zarić, Sanja Hromis, Biljana Zvezdin, Miroslav Illic, Ilija Andrijevic, Branislav Perin, Panagiotis Bamidis

Smoking status and levels of anxiety and depression in hospitalized patients.
Marli Maria Knorst (Porto Alegre (RS), Brazil), Caroline Uber Ghisi, Muriel Bosse Sarmento, Laura Grazziotin Vedana, Gabriela Buffon, Marcelo Basso Gazzana

Smoking and lung cancer
Souad Souilah (Alger, Algeria), Nassima Djami, Nesrine Dermech, Karim Khenouf, Yacine Benbetka, Rabah Amrane, Aziza Fissah

Carboxyhemoglobin level in patients undergoing home long term oxygen therapy declaring themselves as non-smokers.
Adam Nowinski (Warszawa, Poland), Damian Korzybski, Anna Czyzak-Gradkowska, Robert Pływaczewski, Pawel Siwinski

Comorbid conditions and social determinants of smoking in the adult population.
Esra UzAslan (Bursa, Turkey), Ozge A Guclu, Nilufer A A Öztürk, Asli Diléktasli, Ezgi D Cetinoglu, Mehmet Karadag

TP-32 Session 124 12:50 - 14:40

Thematic poster: Role of omics in population studies

Disease(s) : Airway diseases Pulmonary vascular diseases
Method(s) : Public health Cell and molecular biology Epidemiology

Chairs : Olena Gruzieva (Stockholm, Sweden), Susanne J. H. Vijverberg (Utrecht, Netherlands), Klaus Bonnelykke (Allerød, Denmark), Juan Celedon (Pittsburgh, United States of America)

Late Breaking Abstract - Mutations of BRWD1 may be associated with Primary Ciliary Dyskinesia
Ting Guo (chang sha, China), Zhi-Ping Tan, Hong Luo

DNA methylation and serum total immunoglobulin E (IgE) levels: a methylome-wide association study in adults with asthma
Sebastien Chanoine (La Tronche, France), Anaïs Malpertuis, Laura Beaumier, Dylan Aïssi, Emmanuelle Bouzigon, Elodie Boulier, Xiao Jian Shao, Mark Lathrop, Elin Grundgerg, Isabelle Pin, Florence Domenais, Valerie Siroux

Metabolite quantitative trait loci provide functional link between FADS2 and lung obstruction in asthmatics
Rachel Kelly (boston, United States of America), Scott Weiss, Bruce Levy, Benjamin Raby, Jessica Lasky-Su

Contribution of the Saguenay–Lac-Saint-Jean asthma familial cohort in the omic landscape of asthma
Jolyane Meloche (Saguenay (QC), Canada), Lucile Pain, Anne-Marie Boucher-Lafleur, Catherine Laprise

DNA-estimated ageing markers are associated with COPD
Maaike de Vries (Groningen, Netherlands), Victor Guryev, Tristan V. De Jong, Judith M. Vonk, H. Marike Boezen, Cleo C. Van Diemen

Exome sequencing reveals immune genes as susceptibility modifiers in a1-antitrypsin deficiency
Chiara Rigobello (Padova (PD), Italy), Simonetta Baraldo, Mariaenrica Tiné, Ilaria Ferrarotti, Angelo Corsico, Davide Biondini, Donato Lacedonia, Giovanna Elisiana Carpagnano, Maria Pia Foschino Barbaro, Giorgio Valle, Marina Saetta, Manuel Cosio

Transcriptomic alterations induced by air pollution-derived PM2.5 reflect the shift from healthy to COPD-diseased human bronchial epithelium
Sébastien Anthérieu (Lille, France), Bérénice Leclercq, Laurent-Yvon Alleman, Esperanza Perdrix, Patrice Coddeville, Jean-Marc Lo-Guidice, Guillaume Garçon

Inhaled diesel exhaust alters plasma proteome signature
Neelofeer Mookherjee (Winnipeg (MB), Canada), Min Hyung Ryu, Mahadevappa Hemshekhar, Víctor Spicer, Christopher Carlsten
| PA1270 | ß2-adrenergic receptor polymorphisms and risk of COPD | Leila Karimi Gazafroudi (Rotterdam, Netherlands), Lies Lahousse, Bruno H C Stricker, Johan Van Der Lei, Katia M Verhamme, Guy G Brusselle |
| PA1271 | TRPM8 polymorphism as an independent factor of bronchial obstruction in asthma | Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Anna Prikhodko, Juliy Perelman, Victor Kolosov |
| PA1272 | Cold air alters MUC5AC and MUC5B expression in the airways of asthma patients | Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Anna Prikhodko, Elena Pineagina, Juliy Perelman, Victor Kolosov, Xiangdong Zhou, Qi Li |
| PA1273 | Genomic analysis of CC16 as a biomarker for COPD | Xingnan Li (Tucson, United States of America), Stefano Guerra, Huashi Li, Stephanie Christenson, R Graham Barr, Christopher Cooper, David Couper, Mark Dransfield, Meilan Han, Nadia Hansel, Eric Hoffman, Richard Kanner, Eric Kleerup, Fernando Martinez, Wanda O’Neal, Robert Paine, Prescott Woodruff, Deborah Meyers, Eugene Bleecker |
| PA1274 | New evidence of genetic adaptation to high altitude in Andean populations | Christina Eichstaedt (Heidelberg, Germany), Luca Pagani, Tiago Antao, Charlotte Inchley, Alexia Cardona, Alexander Mørseburg, Florian Clemente, Timothy Sluckin, Een Metspalu, Mario Mitt, Reidal Mägi, Georgi Hudjashov, Mait Metspalu, Maru Mormina, Guy Jacobs, Toomas Kivisild |
| PA1275 | Age at menopause and lung function: A Mendelian randomization study | Diana van der Plaat (Paris, France), Miguel Pereira, Giancarlo Pesce, James Potts, Andre Amaral, Shyamali Dharmage, Judith Garcia-Aymerich, Francisco Gomez-Real, Deborah Jarvis, Cosetta Minelli, Benedicte Leynaert |
| PA1277 | Cardio metabolic traits and lung function: A Mendelian Randomization study | Andre F.S. Amaral (London, United Kingdom), Matthias Wielscher, Cosetta Minelli, Juha Auvinen, Sylvain Sebert, Debbie Jarvis, Marjo-Riitta Jarvelin |

**TP-33** Session 125 12:50 - 14:40

**Thematic poster: The bad and the ugly in paediatric asthma: comorbidities and exacerbations**

**Disease(s):** Airway diseases

**Method(s):** Imaging  Physiology  Public health  Epidemiology  General respiratory patient care  Cell and molecular biology

**Chairs:** Ozge Yilmaz (Manisa, Turkey), Evelien R. van Meel (Rotterdam, Netherlands), Ana María Herrera Gana (Santiago, Chile), Bart L. Rottier (Groningen, Netherlands)

**Asthmatic adolescent anxiety and adaptation to illness**
Silvia Castillo Corullón (Torrent (Valencia), Spain), Selene Valero-Moreno, Marian Pérez-Marín, Inmaculada Montoya-Castilla, Amparo Escribano-Montaner

**Emotional distress in children with problematic severe asthma is associated with parental anxiety and depression**
Louise Selby (Cambridge (Cambridgeshire), United Kingdom), Frances Beresford, Sejal Saglani, Andrew Bush, Angela Jamalzadeh, Rachael Moore Crough, Pippa Hall, Louise Fleming

**Mother's level of education and knowledge about asthma is a major determinant of asthma control in children: A multicenter study by Respiratory Research Network of India.**
Sneha Limaye (Pune (Maharashtira), India), Sasidharan Bindusara, Mohammed Haseeb, Prasad Muley, Nilofer Mujawar, Premalatha Ramaswamy, Rajendra Kumar, Sanjay Bafna, Jagadish Dhekne, Reyaz Malik, Barnali Bhattacharya, Suhans Kulkarni, Sapna Madas, Shruti Sahasrabudhe, Suneep Salvi

**Associations between indicators of socioeconomic status and childhood asthma**
Valentina Cvejcoska-Colakovska (Skopje, FYROM (Macedonia)), Emilija Vlashki, Mimi Kimovska, Lidija Seekova, Vesna Micevska, Josh Lawson

**Physical activity and quality of life among children with well controlled asthma**
Fotios Kirvassilis (Oraiokastro, Greece), Hatzigarou, Pavlina Peftoulidou, Maria Parisi, Eleana Kourouklou, Lemony Nousia, John Tzanakas
PA1284 Features of asthma control in obese children
Mykola Garas (Cherivtsi, Ukraine)

PA1285 Comparison of Body Fat Composition and Body Mass Index as a risk factor for severity of small airway obstruction in school-aged children in Korea
Hyemi Jee (Seongnam, Republic of Korea), Kyung Suk Lee, Eun Kyo Ha, Young-Ho Jung, Man Yong Han

PA1286 Scores of disease control and quality of life in atopic asthmatic children: relationship with disease history and lung volumes.
Mario Barreto (Roma (RM), Italy), Anna Prete, Melania Evangelisti, Susy Martella, Marilisa Montesano, Maria Pia Villa

PA1287 What is the commonest symptom of asthma in Indian children?
Deesha Ghorpade (Pune (Maharashtra), India), Monica Barne, Noopur Hedawoo, Nisha Kale, Sapna Madas, Sundee Salvi

PA1288 Defining acute asthma severity – how do worldwide asthma guidelines compare?
Ann Mcmurray (Edinburgh (Edinburgh), United Kingdom), Louise Fleming, Steve Cunningham

PA1289 Asthma hospitalization rates and asthma mortality in Chilean Children: 2008-2014
Ana María Herrera Gana (Santiago, Chile), Gabriel Cavada Chacon

PA1290 Prognostic factors in severe eosinophilic asthma in children
Carlos Martinez Ribera (Barcelona, Spain), Clara Padró Casas, Maria Basagaña Torrentó, Marisa Rivera Ortún, Carlos Pollán Guisasola, Jose Tomas Navarro Ferrando, Eva Martinez Cáceres, Ana Teniente Serra, Alicia Francoso Vicente, Maria Del Mar Martínez Colls

PA1291 Impact of risk factors on the requirement of long term preventers at 3 years following first admission for wheezing in the initial 2 years of life
Mahesh Babu Ramamurthy (Singapore, Singapore), Daniel Y T Goh, Michael T C Lim, Melvin Qiyu Lee

PA1292 Functional status of ciliated epithelium during asthma exacerbation and remission in children
Natalia Kosolova (Moscow, Russian Federation), Irina Ozerskaia, Natalia Geppe, Ulyana Malaymina

PA1293 Risk factors for asthma exacerbation in children and adolescents
Andrey Sousa (São Paulo (SP), Brazil), Anna Lúcia Cabral, Milton Arruda Martins, Celso Rf Carvalho

PA1294 The role of Surfactant protein B in formation of respiratory diseases in former preterms
Oleksandr Mazulov (Vinnytsia, Ukraine), Olga Yablon, Iuliiya Kyslova

PA1295 Prevalence and risk factors of fixed airway obstruction in children with asthma
Kelvin Yong Jie Lim (Singapore, Singapore), Oon Hoe Teoh, John Allen Jr, Qixian He, Arun Pugalenthi, Oh Moh Chay, Anne Goh, Petrina Wong, Yi Hua Tan, Zai Ru Cheng, Ai Huay Teo, Biju Thomas

PA1296 Obesity and respiratory function impairment in asthmatic and non asthmatic children
Carolina Vitale (Frattamaggiore (NA), Italy), Livio Vitiello, Miriana Picariello, Angelantonio Maglio, Fabio Cerrone, Miriam Schirò, Pietro Vajro, Alessandro Vatrella

PA1297 Laser Doppler flowmetry in the evaluation of microcirculation in children with bronchial asthma.
Natalia Kosolova (Moscow, Russian Federation), Natalia Geppe, Veronika Denisova, Anita Denisova, Natalia Lozano

PA1298 The effect of inhaled corticosteroids on hair cortisol
Esmé J. Baan (Rotterdam, Netherlands), Erica L T Van Den Akker, Yolanda B De Rijke, Johan C De Jongste, Miriam Sturkenboom, Katia M Verhamme, Marjolein Engelkes, Hettie M Janssens

TP-34 Session 126 12:50 - 14:40
Thematic poster: Paediatric asthma: new mechanisms and tools

Disease(s): Airway diseases, Respiratory infections

Method(s): Cell and molecular biology, General respiratory patient care, Epidemiology

Chairs: Annelies M. Zwitserloot (Groningen, Netherlands), Carmelo Gabriele (Ancona (AN), Italy), Astghik Baghdasaryan (Yerevan, Armenia), Angela Zacharasiewicz (Wien, Austria)

PA1299 Late Breaking Abstract - Tidal breathing variability during sleep is a sensitive marker of disease control in small children with recurrent wheeze
Davor Plavec (Zagreb, Croatia), Ville-Pekka Seppä, Marita Paassila, Javier Gracia, Anton Hult, Jari Vihk, Jussi Karjalainen

PA1300 E-CADHERIN GENE PROMOTER METHYLATION IN PEDIATRIC ASTHMA PATHOGENESIS AND CLINICS
Hasan Yuksel (Manisa, Turkey), Kazim Zaraci, Ferda Ozkinay, Ozge Yilmaz, Tahir Atik, Yurdas Basbay, Esra Isik
Unsupervised and externally validated clinical cluster analysis from the U-BIOPRED paediatric cohorts
Simone Hashimoto (Amsterdam, Netherlands), Paul Brinkman, Diane Lefaudeux, Aruna T. Bansal, Bertrand De Meulder, Claire Murray, Andrew Bush, Urs Frey, Florian Singer, Guilla Em Hedlin, Björn Nordlund, Hans Bisgaard, Wim Van Aalderen, Susanne J.H Vijnberg, Nadja H. Vissing, Zaraquiza Zolkapl., Anna Selby, Stephen J. Fowler, Dominic Shaw, Ana R. Sousa, Scott Wagers, Julie Corfield, Ioannis Pandis, Anthony Rowe, Marta Puig Valls, Gianluca Praticò, Charles Auffray, Kian Fan Chung, Elisabeth H. Bel, Ratko Djukanovic, Anke-Hilse Maitland Van Der Zee, Peter J. Sterk, Louise Fleming, Graham Roberts

Potential causes of variability in latent phenotypes of childhood wheeze
Ceyda Oksel (London, United Kingdom), Raquel Granell, John Henderson, Adrian Custovic

Cytokines in asthma and obesity in children
Niya Krasteva (Pleven, Bulgaria), Boiko Shentov, Stanimiria Elkina

Farming exposure of mothers protects offspring from allergic diseases by modulating TLR-Tregs-Th axis of newborn
Jing Liu (München, Germany), Jinyan Yu, Xiaoxiu Liu, Yanlei Li, Junling Yang

Exhaled nitric oxide fraction in asthmatic children: relationship with spirometric patterns and spirometric response to exercise
Juan Manuel Figueroa (Ciudad Autónoma Buenos Aires, Argentina), Carlos Tomas Velasco Suarez, Magdalena Vocos, Gimena Donth Leger, Doris Primrose, Andrea Dugour

Exercise-induced symptoms predict persistence of wheeze into adolescence in a clinical population
Carmen de Jong (Bern, Switzerland), Eva Pedersen, Myrofora Goutaki, Daniel Trachsel, Juerg Barben, Claudia Kuehni

ADAM33 is involved in post-natal airway hyperresponsiveness caused by maternal allergic airway inflammation
Marieke Wandel (Southampton (Hampshire), United Kingdom), Elizabeth R. Davies, Joanne F. C. Kelly, Stephen T. Holgate, Jeffrey A. Whitsett, Donna E. Davies, Hans Michael Haitchi

Airway responsiveness and inflammatory markers in non-asthmatic adolescents with elevated FeNO
Pia Kalm-Stephens (Uppsala, Sweden), Lennart Nordvall, Janson Christer, Malinovschi Andrei, Alving Kjell

The perception of dyspnea during exercise-induced bronchoconstriction in asthmatic children
Chikako Motomura (Fukuoka, Japan), Takahito Ninomiya, Masatoshi Wakatsuki, Yuki Okamoto, Toshiaki Kawano, Koki Okabe, Mihoko Iwata, Naohiko Taba, Satoshi Honjo, Hiroshi Odajima

Opinions towards the implementation of spirometry and exhaled nitric oxide testing in children under investigation for asthma in primary care
Lesley Danvers (Leicestershire, United Kingdom), David Lo, Nichola Harcombe, Damian Roland, Matthew Richardson, Yaling Yang, Andrew Wilson, Erol Gaillard

Is there any association between spirometry and impulse oscillometry in asthmatic preschool children?
Paula Cristina Carvalho Vidal Reis Leiria Pinto (Lisboa, Portugal), Pedro Martins, Isabel Peralta, Nuno Neuparth

Comparison of the analytical performance of the Euroline®, ImmunoCAP®, and ImmunoCAP ISAC 112® in vitro allergen sIgE diagnostic assays in the pediatric arm of the DZL All Age Asthma Cohort (ALLIANCE)
Chrysanthi Svekavi (Athens, Greece), Anna Maria Dittrich, Markus Weckmann, Kathrin Eirnghaus, Nina Timmesfeld, Pavel Tao, Matthias Kopp, Erika Von Mutius, Gesine Hansen, Harald Renz

Misdiagnosis of children’s asthma is common in UK primary care and can be improved with objective tests
David Lo (Rothley, United Kingdom), Lesley Danvers, Damian Roland, Matthew Richardson, Yaling Yang, Caroline Beardsmore, Andrew Wilson, Erol Gaillard

The use of exhaled nitric oxide (NO) to categorize asthma phenotype and treatment in children - Results from National Hospital of Pediatrics
Sy Duong-Quy (Da Lat, Vietnam), Hanh Nguyen-Thi-Bich, Huong Le-Thi-Minh, Craig Timothy

Nitrogen (N2) multiple breath washout: Assessment of ventilation inhomogeneity in severe paediatric asthma
Patricia de Gouveia Belinelo (Newcastle (NSW), Australia), Aleisha Nielsen, Bernadette Goddard, Adam M. Collison, Paul D. Robinson, Bruce Whitehead, Jodi Hilton, Tanya Gulliver, Laurence Roddick, Lauren Platt, Kasey Pearce, Joerg Mattes

Thematic poster: Cystic fibrosis in adults: current research

TP-35 Session 127 12:50 - 14:40

Thematic poster: Cystic fibrosis in adults: current research

12.09.2018
| PA1317 | Correlation of physical fitness with peripheral muscle strength, physical activity levels and lung function in patients with cystic fibrosis | marcio donadio (porto alegre, rs, brazil), fernanda vendrusculo, gabriela bueno, natalia campos, ingrid silveira, mailise gheller, joao heinzmann-filho |
| PA1318 | Non-invasive ventilation during exercise in severe cystic fibrosis subjects: a preliminary study | raffaella bellini (negrat (verona), italy), clizia cazzarolli |
| PA1319 | In adults with cystic fibrosis (CF), the high-resolution computed tomography (HRCT) predicts maximal exercise capacity | ernesto crisafulli (modena (MO), italy), elisabetta teopompi, silvia luceri, francesco longo, paolo pagano, chiara longo, antonella ielpo, marina aiello, giuseppina bertorelli, nicola sverzellati, alfredo chetta, giovanna pisi |
| PA1320 | Cardiorespiratory Fitness in an adult Norwegian Cystic Fibrosis Population | ole torvanger (sandnes, norway), audun os, ole henning skjønsberg, elisabeth edvardsen |
| PA1321 | CARDIOPULMONARY ASSESSMENT AMONG ADOLESCENTS WITH CYSTIC FIBROSIS : THE “HEART” OF THE PROBLEM | giancarlo tancredi (roma (RM), italy), alessandra favoriti, caterina lambiase, desiree mollicone, valeria tromba, versacci paolo, luigi graziano, tamara perelli |
| PA1322 | Real life experience of lumacaftor/ivacaftor in adult Phe508del homozygous cystic fibrosis patients. | giacomo domenico maria bonizzoni, michela belloccia, cristina bena, elisa clivati, carlotta biglia, sara demichelis, gianpiro bandelli, alessia grande, fabio traversa, carlo albera, barbara messore |
| PA1323 | Real-life experience of Omalizumab in adult Cystic Fibrosis patients with allergic severe asthma and Allergic Bronchopulmonary Aspergillosis | michela maria belloccia (torino (TO), italy), giacomo bonizzoni, carlotta biglia, cristina bena, elisa clivati, valentina difino, fabio traversa, sara demichelis, fabio luigi massimo ricciardolo, carlo albera, barbara messore |
| PA1324 | Long-term outcomes and clinical worsening in cystic fibrosis patients with at least one residual function mutation | andrea gramengia (milano (MI), italy), martina contarini, stefano aliberti, giovanni sotgiu, manuela seia, luigi porcaro, alessandra colombo, nicolò vanoni, francesco amati, giovanna pizzamiglio, marta di pasquale, silvia dellafiore, maria papalettera, carlo castellani, baroukh maurice assael, francesco blasi |
| PA1325 | Clinical characteristics and disease severity of adults with cystic fibrosis with at least one residual function mutation | martina contarini (gorgonzola (MI), italy), andrea gramengia, stefano aliberti, giovanni sotgiu, manuela seia, luigi porcaro, alessandra colombo, nicolò vanoni, francesco amati, giovanna pizzamiglio, marta di pasquale, silvia dellafiore, maria papalettera, carlo castellani, baroukh maurice assael, francesco blasi |
| PA1326 | A review of Lung Transplantation for Cystic Fibrosis in Ireland in 2017. | petra grehan (dublin 7, ireland), irene byrne, jj egan, dervilla danaher, heart and lung transplant team |
| PA1327 | Macrophscopic sputum quality assessments with a colour grading system in Cystic Fibrosis patients | beatrice ferrari (firenze (FI), italy), chiara degl'innocenti, chiara castellani, eleonora masi, vito terlizzi, maria chiara cavicchi, riccardo guarise |
| PA1328 | Transmission-frequency of Aspergillus fumigatus in cystic fibrosis patients through coughing | monique H.E. rejiers (molenhoeck, netherlands), tobias engel, ellen erren, koen vanden driessche, willem melchers, peter merkus, paul verweij |
| PA1329 | Prospective study on clinical and immunological Aspergillus categorization in cystic fibrosis. | carsten schwartz (berlin, germany), svenja kaufmann, jobst fridolin Röhmel, patience eschenhagen, anne mehl, carolin meinus, dors staab, volker rickerts, kathrin seidel, petra bacher, alexander scheffold |
| PA1330 | Pseudomonas aeruginosa eradication therapy on Cystic Fibrosis- Guideline and clinical routine | klaus einhorn (rostock, germany), manfred ballmann |
| PA1331 | Treatment of atelectasis and severe mucus plugging in cystic fibrosis. | helga elidotir (vellinge, sweden) |
| PA1332 | Assessment of mental health status in primary ciliary dyskinesia and cystic fibrosis patients and their parents | sonia graziano (rome, italy), virginia mirra, nicola ullmann, raffaela rusciano, vincenzina lucidi, renato cutrera, paola tabarini |
| PA1333 | Sputum glucose as a marker of disease severity in adult patients with cystic fibrosis | Andrea Gramegna (Milano (MI), Italy), Martina Contarini, Stefano Aliberti, Giovanni Sotgiu, Leonardo Terranova, Martina Oriano, Nicolò Vanoni, Francesco Amati, Giovanna Pizzamiglio, Marta Di Pasquale, Silvia Dellafiore, Maria Pappalettera, Baroukh Maurice Assael, Francesco Blasi |
| PA1334 | Sputum and plasma adiponectin levels in clinically stable adult cystic fibrosis patients with CFTR I1234V mutation | Atqah Abdul Wahab (Doha, Qatar), Mona Allangawi, Melin Thomas, Ilham Bettahi, Siveen Silvaraman, Jerobin Kumar, Prem Chandra, Manjunath Ramanjaneya |
| PA1335 | Implementing the International Committee on Mental Health in Cystic Fibrosis (ICMHI) Guidelines: Practical complexities of managing mental health | Marieke Verkley (Amsterdam, Netherlands), Jacqueline Boekhoff, Eric Haarman, Irma Bon, Ad F Nagelkerke, Janice Abbott |
| PA1336 | Coping in adult cystic fibrosis patients: Association with anxiety and depression | Nazlı Zeynep Uslu (İstanbul, Turkey), Şehnaz Olgun Yıldızeli, Derya Kocakaya, Emel Eryüksel, Berrin Ceyhan |

**TP-36**

**Session 128**

**12:50 - 14:40**

**Thematic poster: Clinical problems in paediatric pulmonology**

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<tr>
<td>Chairs</td>
<td>Panayiotis Kouis (Nicosia, Cyprus), Stefania La Grutta (Palermo (PA), Italy), Liesbeth Duijts (Rotterdam, Netherlands), Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom)</td>
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| PA1337 | Late Breaking Abstract - Digital objective automated feedback on inhalation technique. | Henrik Ljungberg (Stockholm, Sweden), Björn Nordlund, Anna Carleborg |
| PA1338 | Late Breaking Abstract - Psychometric validation of QOL-PCD, Adolescent, Child and Parent Proxy questionnaires assessed their reliability and validity | Laura Behan (Ballincollig (Co. Cork), Ireland), Margaret W Leigh, Sharon D Dell, Alexandra L Quittner, Claire Hogg, Jane Lucas |
| PA1339 | The impact of chronic non-specific cough on children and their families | GILL WARING (Manchester (Greater Manchester), United Kingdom), Susan Kirk, Debbie Fallon |
| PA1340 | Evaluation of cases with bronchiectasis diagnosis; one central experience | Sevgi Pekcan (Ankara, Turkey), Selvihan Yılmaz, Osman Özdemir |
| PA1341 | Paediatric chronic cough characteristics and aetiology – a retrospective tertiary clinic cohort study | Yury Petrunin (Edinburgh (Edinburgh), United Kingdom), Pauline Rowsome, Steve Cunningham, Stefan Unger |
| PA1342 | Aspiration Syndrome in Children Under One Year of Age | Olga Zaytseva (Moscow, Russian Federation), Nadejda Zaitseva, Tatiana Borisova, Marina Besedina, Evgenia Tolstova, Larisa Tilikina, Elena Efimova, Elena Radimova, Elena Ionova |
| PA1343 | First year of life respiratory symptoms in premature born children | Nikki Edelbroek (Rotterdam, Netherlands), Alike Kamerbeek, Gerdien Tramper |
| PA1344 | Day care attendance during the first year of life and occurrence of infectious respiratory morbidities and symptoms | Paula Daute de Oliveira (Pelotas (RS), Brazil), Andréa Dámaso Bertoldi, Bruna Gonçalves C. Da Silva, Marlos Domingues, Nelson Arns Neumann, Mariângela Freitas Da Silveira |
| PA1345 | Impact of respiratory syncytial virus infection and palivizumab on severe acute lower respiratory infection during the first 6 months of life in a cohort of Colombian infants. | Ranniery Acuña-Cordero (Bogotá, Colombia), Alejandro Colmenares, Laura Gonzalez |
| PA1346 | Trends and costs of pertussis hospitalizations in Portugal, 2000 to 2015: from 0 to 95 years old | Maria Inês Águeda de Azevedo (Porto, Portugal), Sara Melo Oliveira, Manuel Gonçalves-Pinho, Hércilia Guimarães, Alberto Freitas |
| PA1347 | Hospitalizations for acute bronchiolitis in Portugal, 2000 to 2015 | Maria Inês Águeda de Azevedo (Porto, Portugal), Âlvaro da Silva, Manuel Gonçalves-Pinho, Alberto Freitas |
| PA1348 | Impact on Adherence to the 2012 Evaluation and Management of Pediatric Community Acquired Pneumonia Philippine Academy of Pediatric Pulmonologist (PAPP) Update | Lorraine Sharon Salvana (Quezon City, Philippines) |
PA1349 Polypharmacy in children hospitalized due to respiratory problems: data from a university hospital
Maria Gogou (Katerini, Greece), Andreas Giannopoulos, Katerina Haidopoulou

PA1350 Relation of serum IGF-1 and IGFBP3 levels with acute exacerbation in cystic fibrosis
Pinar Ergenekon (Istanbul, Turkey), Furkan Eser, Emine Atag, Nilay Bas Ikizoglu, Ela Erdem Eralp, Yasemin Gokdemir, Serap Turan, Abdullah Bereket, Bulent Karadag

PA1351 Hepatopulmonary syndrome prevalence and characteristics in children with cirrhosis in southern Brazil
Eduardo Garcia (Porto Alegre (RS), Brazil), Gabriela Coral, Marilia Ceza

PA1352 Severity of air pollution in New Delhi and burden of paediatric respiratory illnesses - An Ecological Study
Charu Kohli (New Delhi (Delhi), India), Bratati Banerjee, Suneela Garg

PA1353 Hydatid cyst in childhood: single center experience
Sevgi Pekcan (Ankara, Turkey), Meltem Kiyumaz

PA1354 Invasive mechanical ventilation at home in paediatric patients: the experience of a public health service/Brazil
Eliza Borges, Laerte Borges Júnior, Hyster Ferreira, Alexya Ferreira, Vinicius Oliveira, Antônio Carvalho, Ana Laura Paula, Vivian Azevedo, Wallisen Hattori

PA1355 Metabolomics in the prediction of recurrent wheezing: a longitudinal healthy birth cohort study
Valentina Agnese Ferraro (Rosa’ (VI), Italy), Eugenio Baraldi, Matteo Stocchero, Sara Bozzetto, Michela Maretti, Giuseppe Giordano, Paola Pirillo, Stefania Zanconato, Silvia Carraro

PA1356 Management of intact and ruptured pulmonary hydatid cysts
Sabrine LOUHAICHI (Ariana, Tunisia), Sarra Zairi, Besma Hamdi, Mahdi Abdennadher, Hazem Zribi, Amira Dridi, Sonia Ouerghi, Adel Marghli

TP-37 Session 129 12:50 - 14:40

Thematic poster: Paediatric bronchology

PA1357 Vocal cord paralysis appears to be an acquired lesion in children with repaired esophageal atresia/tracheoesophageal fistula
Federica Porcaro (Roma (RM), Italy), Thomas Kovesi, Francesca Petreschi, Marilena Trozzi, Sergio Bottero, Renato Cutrera

PA1358 Diagnostic accuracy of radiologic findings in children with suspected foreign body aspiration
Yu-Mi Park (Seoul, Republic of Korea), Kyung Hoon Kim, Jae Jin Lee, Eun Yae Yang, Hwan Soo Kim, Yoon Hong Chun, Jong-So Yoon, Hyun Hee Kim, Jin Tae Kim

PA1359 Ruptured tracheoinnominate fistula following slide tracheoplasty and non-tuberculosis Mycobacteria tracheobronchitis treated with extracorporeal membrane oxygenation, endovascular stent graft and debranching surgical bypass
Yu-San Chien (Taipei City, Taiwan), Kuo-Sheng Lee, Kung-Hong Hsu

PA1360 Lower airway pathology in children with Down syndrome compared to controls
Mariska De Lausnay (Lokeren, Belgium), Stijn Verhulst, Lieve Boel, Marek Wojciechowski, An Boudewyns, Kim Van Hoorenbueck

PA1361 A child with tachypnea
Paolo Del Greco (Firenze (FI), Italy), Claudia Calogero, Grazia Fenu, Chiara Carparrelli, Cristina Beltrami, Maria Alice Donati, Stefano Avenali, Anna Maria Buccoliero, Matteo Della Monica, Barbara Maria Bergamini, Enrico Lombardi

PA1362 Does cobblestone appearance on bronchoscopy suggest gastro-oesophageal reflux disease?
Chukwudumebi Duru (Sheffield (South Yorkshire), United Kingdom), Laura Walker, Alison Scott

PA1363 Psychosocial status of primary caregivers of children with tracheostomy
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyüboğlu, Tugba Ramasli Gursoy, Sevgi Pekcan, Zeynep Buyukkaya, Melih Hangül, Mehmet Kose, Sebnem Soysal, Isil Irem Budakoglu

PA1364 What may stand behind chest pain: a case report
Michele Ghezzi (Bergamo, Italy), Lucia Migliazza, Giulia Giannotti, Maurizio Cheli, Ahmad Kantar
A rare case of chest pain in children: pulmonary embolism
Pinar Ergenekon (Istanbul, Turkey), Emine Atag, Yasemin Goldemir, Ela Erdem Eralp, Sait Karakurt, Omer Dogru, Bulent Karadag

Post-intubation subglottic stenosis in children: analysis of clinical features and risk factors
Hakan Yazan (Istanbul, Turkey), Erkan Çakir, Ayse Ayızit Atabay, Omer Faruk Calım, Selcuk Uzuner, Nurettin Onur Kutlu, Orhan Özturan

Pleuropulmonary bastoma in children: an unusual presentation mimicking pneumonia
Laura Berdah (Paris, France), Sabah Boudjemaa, Helene Boutroux, Jean-Eude Piloquet, Aurore Coulomb, Hubert Ducou Le Pointe, Annick Clement

The etiology of airway foreign bodies in children: analytical cohort study
Svetlana Sciucu (Chisinau, Republic of Moldova), Tatiana Ivas, Victor Rascov, Victoria Donos, Olga Ciuhriri, Stela Demcenco, Rodica Selevestru

The value of radiography for diagnosis of airway foreign bodies in children
Svetlana Sciucu (Chisinau, Republic of Moldova), Victoria Donos, Victor Rascov, Tatiana Ivas, Stela Demcenco, Olga Ciuhriri, Liliana Toma, Rodica Selevestru

The etiological specificity of bronchiectasis in Tunisian children
Besma Hamdi (Manouba oued ellil, Tunisia), Baraa Bdira, Emma Ben Jemai, Sarra Ammari, Jammel Ammar, Anissa Berraeis, Agnes Hamzaoui

Diagnostic significance of HRCT imaging modifications in preterm infants with bronchopulmonary dysplasia
Svetlana Sciucu (Chisinau, Republic of Moldova), Ivanov Diana, Rodica Selevestru, Aliona Cotoman, Silvia Sevcenco, Eugenia Crivceanisci

Abernethy syndrome: A rare cause of pulmonary hypertension
Tuğba Şişmanlar Eyuboglu (Ankara, Turkey), Tugba Ramaslı Gursoy, Ismail Akdulum, Ayse Tana Aslan, Oznur Boyunaga

Fiberoptic endoscopic evaluation of swallowing as a diagnostic tool in infant silent aspiration
Vasilis Grammeniatis (Athens, Greece), Alexander Delides, Thomas Nikolopoulos, Angeliki Galani, Kostas Priftis, Kostas Douros

Flexible bronchoscopy in diagnosis and removal of foreign body aspiration in children
Fotios Kirvassilis (Oraiokastro, Greece), Elpis Hatziagorou, Marina-Triantafyllia Kotzamani, Maria Karailidou, Athanasios Skouras, George Kontzoglou, John Tsanakas

Evaluation of respiratory impedance and ventilatory homogeneity in patients with preterm birth
Irina Lechuga Trejo (MEXICO CITY, Mexico), Laura Gochicoa Rangel, Luis Torre Bousculet

Late Breaking Abstract - Systemic IL-26 correlates with improved asthma control in children with allergic sensitization
Melissa Kovach (Stockholm, Sweden), Ulrika Käck, Karlhans Che, Bettina Levänen, Gunnar Lilja, Jon Konradsen, Anders Lindén

LSC - 2018 - Impaired angiogenic supportive capacity and altered gene expression profile of CD146+ mesenchymal stem cells isolated from hyperoxia-injured neonatal rat lungs
Robbert J. Rottier (Rotterdam, Netherlands), Jennifer J.P. Collins, Marissa A. Lithopoulos (mlithopoulos@gmail.com / Ottawa Hospital Research Institute, Ottawa), Claudia C. Dos Santos (dossantosc@snih.ca / Keenan Research Centre for Biomedical Science of St. Michael’s Hospital, Toronto), Nahila Issa (nahilhaissa@gmail.com / Ottawa Hospital Research Institute, Ottawa), Marius A. Moebius (marius.alexander.moebius@tu-dresden.de / Technische Universität Dresden, Dresden), Caryn Ito (cito@ohri.ca / Ottawa Hospital Research Institute, Ottawa), Shumei Zhong (szhong@ohri.ca / Ottawa Hospital Research Institute, Ottawa), Arul Vadivel (avadivel@ohri.ca / Ottawa Hospital Research Institute, Ottawa), Bernard Thebaud (bthebaud@ohri.ca / Ottawa Hospital Research Institute, Ottawa)

Diversity in mesenchymal lineages during early human lung development
Soula Danopoulos (Los Angeles, United States of America), Soumyaroop Bhattacharya, Matthew Thornton, Brendan Grubbs, Thomas J. Mariani, Denise Al Alam
Krüppel-like factor 4 (Klf4) is a novel regulator of neonatal lung fibroblast homeostasis and reduced in hyperoxia-induced lung injury
Dharmesh Hirani (cologne, Germany), Manuel Koch, Katharina Dinger, Jasmine Mohr, Christina Vohlen, Christian Klaudt, Jörg Dötsch, Miguel A. Alejandro Alcazar

Maternal allergen exposure increases offspring sensory airway innervation and airway hyperreactivity in mice
Alexandra Pincus (Portland, United States of America), Allison Fryer, David Jacoby, Katie Lebold

Loss of IL-6 enables lung growth in newborn mice exposed to prolonged hyperoxia
Dharmesh Hirani (cologne, Germany), Katharina Dinger, Jasmine Mohr, Christina Vohlen, Behrus Darvishan, Fabian Klein, Eva Lopez Garcia, Margarete Odenthal, Jörg Dötsch, Miguel A. Alejandro Alcazar

Role of TREMI-Ripk3 axis in hyperoxia induced lung injury in neonates.
Mansoor Ali Syed (New Delhi (Delhi), India), Dilip Shah, Vineet Bhandari

Sox21, a novel player in the proximal-distal specification of airway epithelium
Evelien Eenjes (, Netherlands), Marjon Buscop-Van Kempen, Anne Boerema-De Munck, Anneloes Van Krimpen, Lisette De Kreij-De Bruin, Robbert Röttger

Krüppel-like Factor 4 (Klf4) in human and mouse lung development: Regulation of ATII Cell Homeostasis in Lungs of Newborn Mice Exposed to HYX
Jasmine Mohr (Köln, Germany), Manuel Koch, Nikos Oikonomou, Bernhard Schermer, Katharina Dinger, Christina Vohlen, Dharmesh Hirani, Margarete Odenthal, Denise Al Alam, Soula Danopoulos, Jörg Dötsch, Miguel A. Alejandro Alcazar

The role of epithelial Pten in programmed cellular senescence during lung development
Ayako Miura (Miyazaki, Japan), Shigehisa Yanagi, Hironobu Tsubouchi, Ayako Matsuo, Nobuhiro Matsumoto, Masamitsu Nakazato

Effect of inhaled N-acetylcysteine on the oxidative stress and content of proteases in lungs of newborn guinea pigs exposed to hyperoxia
Iryna Katovich (Minsk, Belarus), Zhanna Rutkouskaya, Svetlana Anischenko, Anatoly Tahanovich

Thickening of the airway smooth muscle layer from late gestation to first year of life is accompanied by a reduction in smooth muscle cell density
Kimberley Wang (Southern River, Australia), John Elliot, Sejal Saglani, Peter Noble, Alan James

Zebrafish as a model for study of developmental origins of chronic lung diseases
Susanne Krauss-Etschmann (Borstel, Germany), Mila Ljujic, Mate Varga, Sabine Bartel, Aleksandra Divac Rankov

Session 131  12:50 - 14:40

Thematic poster: Respiratory physiology and measurements
Disease(s) : Airway diseases Pulmonary vascular diseases Sleep and breathing disorders Interstitial lung diseases
Method(s) : Cell and molecular biology General respiratory patient care Physiology
Chairs : Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Peter Coss (Dublin 8, Ireland), Monika Franczuk (Warszawa, Poland), Jane Kirkby (Sheffield, United Kingdom)

The multi-ethnic global lung initiative 2012 (GLI-2012) norms reflect contemporary adult's algerian spirometry
Kefi Abdelbassat (Alger, Algeria), Merzak Gharnaout, Mohamed Bougrida, Helmi Ben Saad

The bronchodilator test in patients with chronic airway obstruction: the responsiveness of lung function parameters
Mikhail Chushkin (Moscow, Russian Federation), Natalia Karpina, Lydia Popova, Elena Shergina, Larisa Kityukhina, Olga Nenasheva, Oleg Ots

Comparison of COPDGene non-smoking healthy cohort spirometry to NHANESIII
Robert L. Jensen (Salt Lake City, United States of America), Matthew Hegewald, Alan Morris

The underlying cause of type 2 respiratory failure affects NIV adherence
Sara Parsons (Surbiton (Surrey), United Kingdom), Emma Baker

Spirometry success rate in children in pediatric pulmonology outpatient unit
Ana Alice Amaral Ibiapina Parente (Rio De Janeiro (RJ), Brazil), Maria De Fátima March, Clemax Sant’anna, Paula Maia, Priscilla Araújo, Luanda Alleluia

VEFI and PEF correlation by digital peak expiratory flow and conventional spirometry in children
Ana Alice Amaral Ibiapina Parente (Rio De Janeiro (RJ), Brazil), Maria De Fátima March, Clemax Sant’anna, Paula Maia, Priscilla Araújo, Luanda Alleluia
PA1396 Does the oximetry sensor manufacturer impact the oxygen saturation readings during a six minute walk test?
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvester, Katrina Oates

PA1397 Agreement between clinical and non-clinical digital manometer for assessing maximal respiratory pressures in healthy subjects
Homero Pupo (Santiago, Chile), Rodrigo Torres-Castro, Matías Otto-Yañez, Nicolás Sepúlveda-Cáceres, Rodrigo Garrido-Baquedano, Marisol Barros-Poblete, Luis Vasconcello, Roberto Vera-Uribe, Guilherme Fregonezi

PA1398 Comparison of methods for interpreting bronchodilator response (BDR) in children
Stephanie Rees (London, United Kingdom), Emma Raywood, Emma Fettes, Aidan Laverty

PA1399 Comparison of functional residual capacity (FRC) measured by plethysmography (FRCpleth) and multiple breath washout (FRCmbw) in schoolchildren with cystic fibrosis (CF).
Mollie Riley (London, United Kingdom), Emma Raywood, Stephanie Rees, Emma Fettes, Aidan Laverty

PA1400 Diagnosis of bronchospasm during bronchodilator test in patients with pulmonary tuberculosis by the method of forced oscillations
Elena M Zhukova (Novosibirsk, Russian Federation), Lyudmila Vokhminova

PA1401 How different are the lung volumes and diffusing capacities of healthy Indians compared to age & gender-matched Europeans?
Shrikant Pawar (Pune (Maharashtra), India), Nitin Vanjare, Shweta Rasam, Vandana Das, Yogesh Thorat, Sushma Jadhav, Sundee Salvi

PA1402 A novel technical extension of the Forced Oscillation Technique
Chuong Ngo (Aachen, Germany), Falk Dippel, Sylvia Lehmann, Klaus Tenbrock, Thomas Vollmer, Berno Misgeld, Steffen Leonhardt

PA1403 X5 values measured on Impulse Oscillometry (IOS) help differentiate healthy, asthmatic, COPD and ILD subjects from one another.
Shrikant Pawar (Pune (Maharashtra), India), Vandana Das, Yogesh Thorat, Nitin Vanjare, Shweta Rasam, Sapna Madas, Rahul Kodgule, Sundee Salvi

PA1404 FEV1 and FVC changes at high altitude residents in Kyrgyzstan
Cholponbaeva Meerim (Bishkek, Kyrgyzstan), Melis Duishobaev, Almazbek Akunov, Kubat Muratali Uulu, Nadira Kushubakova, Zhanagul Kerimbekova, Abdirashit Maripov, Akpay Sarybaev

PA1405 Evaluation of Respiratory Muscle Strength and Balance in Berardinelli-Seip Congenital Lipodystrophy (BSCL) Patients from Brazil
Juliane Tamara Araújo de Melo Campos (Santa Cruz, Brazil), Jorge Luiz Dantas De Medeiros, Bruno Carneiro Bezerra, Thiago Anderson Brito De Araújo, Thaiza Teixeira Xavier Nobre, Lucien Peroni Gualdi, Maria Do Socorro Luna Cruz

PA1406 Modified test to identify the reversibility of bronchial obstruction in patients with chronic obstructive pulmonary disease
Natalya Sharova (St. Petersburg, Russian Federation), Sergei Grishaev

PA1407 Spiro-Breath: Application for instant, large-scale interpretation of Pulmonary Functional Test
Daniel-Ross Monserrat Mitchell (Sabadell (Barcelona), Spain), Laura Vigil, Ana Sogo, Angel Azpeitia, Eric Tort, Axel Salmeron, Guillermo Seminario, Christian Domingo

PA1408 Arterial lactate vs venous lactate as indicator of metabolic limitation during cardiopulmonary exercise testing.
Maria Habes (Bussum, Netherlands), Rachel Salvador, Erica Dijkers, R.P. Van Steenwijk

PA1409 The results of the modelling of respiratory muscles strength proper values by means of artificial intelligence methods
Ilya Kurpatov (Vladivostok, Russian Federation), Boris Geltser, Carina Shahgeldyan

TP-40 Session 132 12:50 - 14:40

Thematic poster: Acutely hospitalised patients: physiotherapy interventions and assessment methods

Disease(s): Respiratory critical care, Thoracic oncology, Pulmonary vascular diseases, Airway diseases, Respiratory infections

Method(s): Imaging, Public health, Surgery, General respiratory patient care, Respiratory intensive care, Physiology

Chairs: Agnieszka Lewko (London, United Kingdom), Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Gregory Reychler (Bruxelles, Belgium), Chris Burtin (Diepenbeek, Belgium)

PA1410 Methodological approach to the development of a learning needs assessment tool
David Anekwe (Montreal, Canada), Lynn Gillespie, Sherry Katz, André Bussières, Gregory Moulec, Jadranka Spahija
PA1411 Safety of cough assist set at different pressure levels in an animal model of mechanical ventilation
Roberto Martinez Alejos (Bordeaux, France), Joan Daniel Marti Romeu, Gianluigi Li Bassi, Xabier Pilar Diaz, Hua Yang, Francesco Pagliara, Denise Battaglini, Andrea Melt, Minlan Yang, Joaquim Bobi, Ana Motos, Antoni Torres

PA1412 Evaluation of oxidative stress and outcomes of hospitalization for patients on mechanical ventilation
Joao Batista Raposo Mazullo Filho (Teresina (PI), Brazil), Silvia Bona, Elizangela Schemitt, Fabiano Da Silva, Fábio Di Nasi, Luiz Forgariarini Junior, Alexandre Dias, Norma Marroni

PA1413 Incidence of orotracheal extubation failure in oncological patients.
Ivan Peres Costa (São Paulo (SP), Brazil), Camilla Giovana Agu, Pedro Caruso, Indiara Soares De Oliveira, Celena Freire Friedrich

PA1414 INTERACTION BETWEEN THORACOABDOMINAL MOTION AND NEONATAL VARIABLES IN PREMATURE INFANTS: A NUMERICAL DATA ANALYSIS
Ana Gabriela de Figueiredo Araujo (Santa Cruz, Brazil), Danielle Cristina Gomes, Ingrid Guerra Azevedo, Eduardo Lacerda Campos, Lorena Batista Lourenço, Gentil Fonseca Filho, Simone Ribeiro, Silvana Alves Pereira

PA1415 Early physiotherapy in the clinical course of patients on Veno-Venous Extracorporeal Membrane Oxygenation.
Andrea Drago (Scandicci (FI), Italy), Manuela Bonizzoli, Chiara Lazzeri, Laura Tadini Boninsegni, Martina Donati, Simona Di Valvasone, Antonio Pesenti, Adriano Peris

PA1416 Chest physiotherapy for acute lobar/lung collapse in mechanically ventilated children: A UK survey
Elizabeth Johnson (London, United Kingdom), Helen Mercer, Amy Bridge, Emma Shkurka

PA1417 A survey examining Mechanical Insufflation-Exsufflation use in UK, adult intensive care units.
Ema Swingwood (Monmouthshire, United Kingdom), Lyvonne Tume, Fiona Cramp

PA1418 The largest occlusion time in maximum inspiratory pressure measurements in patients under mechanical ventilation can determine higher values to those calculated by the predictive formula: cross sectional study?
Rodrigo Tonella (Campinas, Brazil), Mariana Salles, Barbara Silva, Luciana Figueiredo, Aline Heidemann, Melaine Coelho, Antonio Falcão, Ligia Ratti

PA1420 Perioperative factors associated with postoperative health-related quality of life after surgical treatment in patients with non-small-cell lung cancer.
Masato Oikawa (Nagasaki, Japan), Masatoshi Hanada, Hiroki Nagura, Naoya Yamasaki, Tomoshi Tsuchiya, Keitaro Matsumoto, Takuro Miyazaki, Takeshi Nagayasu, Ryo Kozu

PA1421 Investigation of the Relationship Between Peak Expiratory Flow, Dyspnea, Functional Capacity, Pain and Fatigue in Patients Undergone Abdominal Surgery
Hazal Yakut (İzmir, Turkey), Umit Akay, Ismail Özsoy, Didem Karadibak

PA1422 Effects of breathing exercises in the postoperative period of bariatric surgery.
Tamires Mori (Piracicaba, Brazil), Rodrigo Zerbeto, Silvia Baruki, José Eustáquio Souza-Júnior, Daniela Berteli-Merino, Maura Rocha, Eli Maria Pazianotto-Forti

PA1423 Can the Melbourne Scoring Scale be used to assess postoperative pulmonary complications in high-risk patients following lung resection?
Barbara Cristina Brocki (Alborg SV, Denmark), Elisabeth Westerdahl, Jane Andreasen, Jan Jesper Andreasen

PA1424 Upper limbs musculoskeletal repercussion after lung resection
Janet Rodriguez Torres (Granada, Spain), Maria Del Mar Lucena Aguilera, Florencio Quero Valenzuela, Laura López López, Irene Torres Sánchez, Ramón Romero Fernández

PA1425 Investigation of the effects of neuromuscular electrical stimulation in patients with pulmonary arterial hypertension
Buse Ozcan Kahraman (İzmir, Turkey), Ismail Özsoy, Ayah Baran, Serap Acar, Ebru Opzelit, Bahri Akdeniz, Ali Balci, Can Sevinc, Sema Savci

PA1426 Pre-operative assessment of the relationship between 6MWD and kinesiophobia in coronary revascularization surgery
Reyhan Kaygusuz (İstanbul, Turkey), Saadet Ufuk Yurdalan, Begüm Unlu

PA1427 Does overweight/obesity influence cardiac autonomic modulation and functional performance in COPD exacerbation?
Audrey Borihi Silva (São Carlos (SP), Brazil), Alessandro Heubel, Erika Kabbach, Aline Agnolet, Jessica Barbosa, Meliza Roscani, Valéria Pires-Di-Lorenzo, Renata Mendes

PA1428 Physiotherapy treatment for hospitalized infants with acute breathing difficulties - a survey study.
Sonja Andersson Marforio (Hjärup, Sweden), Annika Lundkvist Josenby
Factors associated with functional capacity performance in patients with lung cancer undergoing lung resection surgery

Raquel Sebio Garcia (Mataró, Spain), Esther Giménez Moolhuyzen, Isabel Yañez Brage, Marta Salorio Riobo, Jose Maria Borro Mate

Comparison of sit-to-stand test and six-minute walk test in asthmatic and healthy children

Aylin Tanrıverdi (Izmir, Turkey), Buse Ozcan Kahraman, Ismail Ozsoy, Karya Polat, Asli Papurcu, Nazenin Hande Sezgin, Serap Acar, Gizem Atakul, Nevin Uzuner, Sema Savci

The minimal important difference for the 1-minute sit-to-stand test following pulmonary rehabilitation in patients with COPD – a prospective observational trial

Tessa Schneeberger (Schönau am Königssee, Germany), Rainer Gloeckl, Inga Jarosch, Franziska Drechsel, Andreas Rembert Koczulla, Klaus Kenn

Comparison between six minutes walking test and three minutes step test in COPD patients.

Marc Beaumont (MORLAIX, France), Antoine Losq, Loïc Pérán, Catherine Le Ber, Gregory Reychler

Predictive equation for the unsupported upper limb exercise test (UULEX) in healthy adults.

Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Patricia Rebelo, Cátia Paixão, Sara Almeida, Ana Luisa Araújo Oliveira

Reference values for the walking distance on the six-minute walk test in healthy children aged from 7 to 12 years in Brazil: The têcominbrasil multicentric study

Lucas De Assis Pereira Cacau (Aracaju (SE), Brazil), Vitor Carvalho, Alessandro Pin, Carlos Daniel, Daisy Ykeda, Eliane Carvalho, Juliana Francica, Luiza Faria, Mansueto Gomes-Neto, Marcelo Fernandes, Marcelo Veloso, Marlus Karsten, Patricia Barros, Vâler Santana-Filho

Characteristics of four exercise tests in patients with idiopathic pulmonary fibrosis

Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Yasuhiro Kondoh, Tomoki Kimura, Kensuke Kataoka, Tomoya Ogawa, Fumiko Watanabe, Yuichi Tawara

Glittre-ADL performance with and without a backpack

Liliane Mendes (Belo Horizonte (MG), Brazil), Lissa Spencer, Bill Zafiropoulos, Veronica Parreira, Jennifer Alison

Glittre-ADL test performed in 3 laps as an alternative to the 5 laps test

Liliane Mendes (Belo Horizonte (MG), Brazil), Lissa Spencer, Bill Zafiropoulos, Veronica Parreira, Jennifer Alison

Intra- and interrater reproducibility of 6-minute walk test in patients with severe and very severe COPD

Henrik Hansen (Dragør, Denmark), Nina Beyer, Anne Frolich, Nina Godtfredsen, Theresa Bieler

Intra- and interrater reproducibility of 30-seconds sit-to-stand test in patients with severe and very severe COPD

Henrik Hansen (Dragør, Denmark), Nina Beyer, Anne Frolich, Nina Godtfredsen, Theresa Bieler

The immediate effects of core stabilization exercise on pulmonary parameters

Elif Develi (istanbul, Turkey), Guzin Kaya Aytutuldu, Ayça Yagcioglu, Mehmet Alperen Pekdas, Rasmi Muammer, Arzu Ozdincler

Upper extremity aerobic exercise training improves exercise capacity in stem cell recipients

Gülşah Barğı (Ankara, Turkey), Meral Boşnak Güçlü, ZüBeyde Nur ožkurt, MüNeş Yıldız, Muşerrefe Nur Keleş, Gülten Aydoğdu Taçoğey, Atiye Çengel

Upper extremity aerobic exercise training improves peak oxygen consumption in patients with pulmonary arterial hypertension

Burcu Camcioglu (Ankara, Turkey), Meral Boşnak Güçlü, Müşerrefe Nur Keleş, Gülten Aydoğdu Taçoğey, Atiye Çengel

COPD pulmonary rehabilitation - good enough for ILD patients?

Jacqui Pollington, Kate Martin, Gail Miles, Tracy Ward
The effects of aerobic training on respiratory muscle strength and exercise capacity in ankylosing spondylitis patients
Ayşenur Yilmaz (Denizli, Turkey), Harun Taskin, Orcin Telli Atalay, Mine Pekesen Kurtea, Elif Gür Kabul, Bilge Basakci
Calik, Ali Yalman, Murat Yigit, Murat Taseci, Veli Cobankara

Effect of upper extremity strength training on functional arm and submaximal exercise capacity, fatigue severity and
health-related quality of life in patients with chronic obstructive pulmonary disease
Ebru Çalı̇k Kütküçek (Ankara, Turkey), Hulya Arik, Deniz İnal-Ince, Melda Sağlam, Naciye Vardar-Yaglı, Cigdem Oksuz,
Tulin Duger, Sema Savc, Lutfi Coplu

Effects of eight weeks long supervised exercise training on exercise capacity and pulmonary function in patients after
coronary artery bypass surgery
Semimcan Ozylma (Istanbul, Turkey), Hulya Nilgun Gurses, Melih Zeren, Gurkan Cetin

Effect of exercise on functional capacity and quality of life in scoliosis cases
Cansu Varol (Istanbul, Turkey), Emen Timurtas, Mine Gulden Polat

Thematic poster: Chronic respiratory disease: respiratory muscle function, breathing exercises and
airway clearance techniques

Disease(s) : Airway diseases Respiratory critical care Sleep and breathing disorders Thoracic oncology Respiratory infections

Method(s) : Epidemiology Physiology Public health Respiratory intensive care General respiratory patient care

Chairs : Rachael A. Evans (Leicester, United Kingdom), Kathleen Grant (Lausanne, Switzerland), Carlos
Augusto Marcal Camillo (Londrina (PR), Brazil), Rick Gosselink (Leuven, Belgium)

Late Breaking Abstract - Primary care providers’ fidelity to a brief asthma shared decision-making intervention
Maureen George (New York, United States of America), Allison A. Norful, Annie Chung, Jean-Marie Bruzzese, Michael V.
Pantalon

The effects of functional inspiratory muscle training in geriatric individuals with and without chronic obstructive
pulmonary disease
Buse Ozcan Kahrman (Izmir, Turkey), Ismail Ozsoy, Gulsah Ozsoy, Nurset Ilcin, Nil Tekin, Sema Savc

Effects of inspiratory muscle training on cardiac autonomic control
Raphael Martins Abreu (Bauru, Brazil), Patricia Rehder-Santos, Élter Signini, Camila Sakaguchi, Cláudio Silva, Carla
Dato, Aparecida Caiatai

The effect of breathing exercises on Sleep Quality during Pregnancy among Primigravid.
amrit kaur (Nashik (Maharashtra), India), Mahesh Mitra

Effect of expiratory muscle strength training on cough and swallowing in patients with dysphagia following stroke
Yuichi Tawara (Hamamatsu, Japan), Ichiro Fujishima, Norimasa Katagiri, Shinichi Arizono, Shohei Ohgi, Ryo Kozu

Pursed lips breathing can improve desaturation during flying disc game in COPD patients.
Kyoiosuke Imashiro (Wakayama city, Japan), Yoshiaki Minakata, Atsushi Hayata, Masanori Nakanishi, Yoshiitiro Kamijyo,
Takahiro Ogawa, Yumi Koike, Nobuyuki Yamamoto

Adam Lewis (Enfield, United Kingdom), Phoebe Caves, Nicholas S. Hopkinson

Respiratory muscle strength, respiratory muscle endurance, functional capacity and cognitive status in lung cancer
patients
Ebru Çalı̇k Kütküçek (Ankara, Turkey), Kubra Kilic, Naciye Vardar-Yaglı, Melda Sağlam, Deniz İnal-Ince, Hulya Arik,
Saadettin Kilicak

Maximal respiratory pressures are associated to symptomatic pelvic organ prolapse in middle-aged and older
women: an epidemiological study in Northeast Brazil
Ingrid Guerra Azevedo (Natal (RN), Brazil), Silvane Sousa, Elizabel Viana, Diego Dantas, álvaro Maciel, Saionara
Câmara

Electromyographic and measurement of maximum expiratory pressure in neurological patients: prospective study
Rodrigo Tonella (Campinas, Brazil), Ila Velludo, Jessica Nascimento, Gabriela Nahas, Alme Heidemann, Luciana
Figueiredo, Antonio Falcao, Lidiane Souza, Daniela Faez

The effect of high-frequency oscillatory vibration on peak expiratory flow generated by a MI-E cough assist device in
a mechanical lung model
Ya’akov (Kobi) Dagan (Ramat-Hasaron, Israel), Michael J. Segel, Eli Carmeli
Does Pseudomonas aeruginosa infection alter sputum viscoelastic properties in bronchiectasis patients?
Victoria Alcaraz Serrano (Barcelona, Spain), Joan Llorens-Llacuna, Elena Gimeno-Santos, Albert Gabarrús, Beatriz Herrero-Cortina, Edmundo Rosales-Mayor, Laia Fernández-Barat, Eva Polverino, Rosanel Amaro-Rodriguez, Antoni Torres-Martí

Flows and volumes during Mechanical Insufflation-Exsufflation in a pediatric lung model
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Ove Fondenies, Vegard Hovland

Short-term effects of respiratory physiotherapy in infants with bronchiolitis and outpatient care: A multicentre study
Rodrigo Torres-Castro (Santiago, Chile), Vanesa Gonzalez Bellido, Maria Torrente Regidor, Jose Luis Arias Buría, Mª Del Carmen Jimeno Esteo, Rubén García Carballo, Verónica Velaz Baza

High-frequency chest wall compression in mild and moderate bronchiolitis: a clinical trial
Rodrigo Torres-Castro (Santiago, Chile), Vanesa Gonzalez Bellido, Verónica Velaz Baza, María Torrente Regidor, César Fernández-De-Las-Peñas, José Luis Arias-Buría

Comparison of the effects of comprehensive chest physiotherapy alone and combined with inspiratory muscle training in children with cystic fibrosis
Melih Zeren (Istanbul, Turkey), Hulya Nilgun Gurses, Erkan Cakir

Physical activity and clinical outcomes in patients with interstitial lung disease: how large is the impairment? – Preliminary results
Humberto Silva (Londrina, Brazil), Wagner F Aguiar, Aline F L Goncalves, Thatielle G Silva, Walter A S Loyola, Paulo S Pereira, Vanessa S Probst, Fabio Pitta, Carlos A Camillo

Validation of the rapid assessment of physical activity questionnaire (RAPA) in COPD patients
Ridvan Aktan (balcova (izmir), Turkey), Sevgi Ozalevli, Gamze Yalcinkaya, Aylin Ozgen Alpaydin, Can Sevenc

Exercise capacity, physical activity, quality of life in newly diagnosed hematologic malignancies
Zeliha Celik (Ankara, Turkey), Meral Boşnak Güçlü, Zübeyde Nur Özkürt

Determinants of physical inactivity in hematopoietic stem cells recipients
Gülşah Barğı (Ankara, Turkey), Meral Boşnak Güçlü, Zübeyde Nur Özkürt, Münci Yaşarı

Physical activity levels of children with cystic fibrosis and their parents: Pilot study
Cigdem Emirza (Istanbul, Turkey), Goksen Kuran Aslan, Ayse Ayzit Atabek, Haluk Cokugras

Relationship between exercise sessions in addition to exercise training and improvements in quality of life and physical activity in COPD: Preliminary results
Ana Carolina Dos Reis Andrello (Londrina, Brazil), Ana Carolina Andrello, Leticia F Belo, Lorena P Schneider, Thais R Paes, Nidia A Hernandez, Fabio Pitta

Assessment of sleep quality in children with asthma
Mehmet Ramoglu (Istanbul, Turkey), Hikmet Ucgun, Zeynep Hosbay

Correlations between two instruments measuring sleep quality in patients with ILD: Preliminary results
Wagner F Aguiar (Londrina, Brazil), Humberto Silva, Thatielle G Silva, Aline F L Gonçalves, Jéssica Fonseca, Walter A Sepúlveda, Paulo S Pereira, Vanessa S Probst, Fabio Pitta, Carlo A Camillo

The effects of smoking on pain threshold and pain tolerance
Yasin Ekinci (Ankara, Turkey), Esra Ataş Numanoğlu, Oznur Tunca Yılmaz, İpek Alenderoglou, Ayse Karaduman, Cigdem Oksuz

The effect of kinesiophobia in pulmonary hypertension
Ozge Ertan (Istanbul, Turkey), Goksen Kuran Aslan, Baket Akinci, Nigar Gulfer Okumus

Determination and comparison of fatigue in obstructive pulmonary diseases
Seda Saka (Istanbul, Turkey), Ebru CahiK Kutukcu, Ozge Ozalp, Deniz Inal Ince, Melda Saglam, Naciye Vardar Yaglı, Meral Bosnak Guclu, Hulya Arikan, Lutfi Coplu, Sema Savci
PA1477  Continence Assessment in Paediatric Patients with Primary Ciliary Dyskinesia
Amanda Harris (Southampton (Hampshire), United Kingdom), Victoria Keenan, Hannah Wilkins, Amanda Friend

PA1478  Do cancer treatments affect pain perception?
Ebru Çalık Kütükcü (Ankara, Turkey), Kubra Kilic, Naciye Vardar-Yagli, Melda Saglam, Deniz Inal-Ince, Hulya Arikan, Saadettin Kilickap

PA1479  Investigation of associations between functional performance, physical activity level and sleep quality in adults with Down’s Syndrome
Meltem Ramoglu (İstanbul, Turkey), Hikmet Ucgun, Ertugrul Safran, H. Nilgun Gurses

PA1480  Comparison of Respiratory Muscle Strength, Kinesiophobia and Fatigue Perception in Patients with Liver Transplantation and Healthy Subjects
Naciye Vardar Yaşlı (Ankara, Turkey), Bilge Taşkın, Ebru Calik Kutukcu, Melda Saglam, Deniz Inal-Ince, Hulya Arikan, Ahmet Bulent Dogru

PA1481  Relationship between maximal capacity and activities of daily living in patients with GOLD stage II-III chronic obstructive pulmonary disease

PA1482  The relationship between six minutes walking work, respiratory parameters and activities of daily life in patients with interstitial lung disease
Ozge Ertan (Istanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Pinar Odevoglu, Melike Saritas, Nigar Gulfer Okumus

PA1483  Comparison of fatigue, exercise capacity, physical activity, and quality of life in asthmatic patients with low and high symptom scores
Naciye Vardar Yaşlı (Ankara, Turkey), Hazal Sonbahar Ulu, Deniz Inal Ince, Aslihan Cakmak, Cemile Bozdemir-Ozel, Melda Saglam, Ebru Calik Kutukcu, Hulya Arikan, Gül Karakaya, Ali Fuat Kahyoncu

PA1484  Relationship between disease knowledge and functional perception in COPD patients and their caregivers.
Ramón Romero Fernández (Granada, Spain), Tomás Muñoz Casaubón, Janet Remedios Rodríguez Torres, María Del Mar Lucena Aguilera, Laura López López, Irene Torres Sánchez

TP-44  Session 136  12:50 - 14:40
Thematic poster: Chronic respiratory disease: effects of rehabilitation interventions in patients

Disease(s) : Sleep and breathing disorders Airway diseases Respiratory infections Interstitial lung diseases Respiratory critical care
Method(s) : Transplantation Public health Imaging Respiratory intensive care Surgery General respiratory patient care

Chairs : Melda Saglam (Ankara, Turkey), Shakila Devi Perumal (Dunlaoghaire (Co Dublin), United Kingdom), Deniz Inal-Ince (Ankara, Turkey), Cristina Isabel Oliveira Jácome (Viatodos, Portugal)

PA1485  Stem cell recipients versus healthy subjects regarding exercise tolerance and muscle strength
Gülşah Barğı (Ankara, Turkey), Meral Boşnak Güçlü, Gülşan Türköz Sucak

PA1486  A network analysis of clinical characteristics of patients with COPD: partial results.
Antenor Rodrigues (Londrina (PR), Brazil), Carlos Augusto Camillo, Pedro Cerqueira, Felipe Vilaça Cavallari Machado, Leticia Belo, Lorena Paltain Schneider, Jessica Fonseca, Thais Paes, Nidia Aparecida Hernandez, Fabio Pitta

PA1487  The reaction time and exercise tolerance in patients with cystic fibrosis and healthy controls
Jan Dik (Ankara, Turkey), Melda Sağlam, Naciye Vardar Yaşlı, Cemile Bozdemir-Ozel, Ebru Calik Kutukcu, Deniz Inal Ince, Haluk Tekerlek, Hulya Arikan, Sanem Esref, Deniz Dogru Ersoz

PA1488  Predictors of exercise-induced oxygen desaturation in subjects with chronic obstructive pulmonary disease
Andrea Akemi Morita (Londrina (PR), Brazil), Felipe Machado, Antenor Rodrigues, Lorena Schneider, Nidia Hernandez, Fabio Pitta, Vanessa Probst

PA1489  Relationship between family function and exercise capacity and inspiratory muscle strength in COPD
Cáti Filipa Pinto da Paixão (Guarda, Portugal), Patricia Rebelo, Ana Oliveira, Cristina Jácome, Joana Cruz, Célia Freitas, Helena Loureiro, Marília Rua, Pedro Ferreira, Alda Marques

PA1490  Sex differences in COPD patients users of long-term oxygen therapy
Silvia Regina Valderramas (Curitiba (PR), Brazil), Camila Mazzarin, Demetria Kovelis, Samia Kahlil Biazim

PA1491  Quality of life and exercise capacity in patients with primary ciliary dyskinesia
Merve Fırat (Ankara, Turkey), Meral Boşnak Güçlü, Tuğba Şışmanlar Eyüboğlu, Ayşe Tana Aslan
Arterial stiffness, hemodynamic and functional profile at exacerbation and recovery in COPD
Renata Mendes (Sao Carlos (SP), Brazil), Aline Agnoleto, Alessandro Heubel, Erika Kabbach, Audrey Borghi-Silva, Shane Phillips, Valéria Pires Di Lorenzo, Meliza Roscani, Rodrigo Jaenisch

Triangulated perspectives on outcomes used in pulmonary rehabilitation of patients with COPD
Sara Souto de Miranda (Aveiro, Portugal), Alda Marques

Why are COPD patients unable to complete the outpatient pulmonary rehabilitation program?
Ilknur Naz (Izmir, Turkey), Hulya Sahin

Assessing caregiving experience in COPD: content validity of the Zarit Burden Interview
Joana Patricia Santos Cruz (Albergaria-a-Velha, Portugal), Alda Marques, Sara Miranda, Roger Goldstein, Dina Brooks

Interacting with primary care – experiences of patients with COPD. A qualitative study
Sara Lundell (Umeå, Sweden), Karin Wadell, Maria Wiklund, Malin Tistad

The effect of nutritional support on pulmonary rehabilitation outcomes in COPD patients with low body mass index
Ilknur Naz (Izmir, Turkey), Hulya Sahin

Physical function performance and recovery of patients undergoing abdominal surgery in relation to post-operative complications – A prospective real world study.
Mary Flahive (Limerick, Ireland), James O'Driscoll, Julie Broderick

Are paper-based forms and telephone interview equivalent modes of administration for the Control of Allergic Rhinitis and Asthma Test (CARAT)?
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rui Guedes, Rute Almeida, Filipa Lopes, Ana Margarida Pereira, Luis Araújo, Mariana Couto, Mariana Pereira, Cristina Lopes, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Ana Paula Aguiar, Ivete Afonso, Alberto Costa, Armandina Silva Neto, Marta Santalha, João Almeida Fonseca

Presence of adventitious lung sounds (LS) differ between spontaneous and standardized breathing
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Juan Carlos Aviles-Solis, Ashild Myrnes Uhre, Hans Pasterkamp, Hasse Melbye

Regional lung ventilation and its distribution in patients with stroke-induced hemiparesis in sitting position
Shirley Campos (Recife (PE), Brazil), Catarina Rattes, Wagner Leite, Thiago Gonçalves, Caio Morais, Daniella Brandão, Armele Domelas De Andrade

Thematic poster: Contemporary respiratory care: symptoms, the role of the nurse and the organisation of care

- Respiratory infections
- Respiratory critical care
- Airway diseases
- Sleep and breathing disorders
- Thoracic oncology
- General respiratory patient care

Transplantation  Public health  Endoscopy and interventional pulmonology  Epidemiology  Respiratory intensive care

Anne-Marie Russell (London, United Kingdom), Katleen Leceuvre (KESSEL-LO, Belgium), Andreja Sajnic (Zagreb, Croatia), Samantha Prigmore (London, United Kingdom)

The structure and characteristics of hospital-based programs for COPD: a scoping review
Loretta Mccormick (Cambridge (ON), Canada), Carol Wong, Mickey Kerr, Yolanda Babenko-Mould

Contemporary tracheostomy clinical management in respiratory wards: A continuous quality improvement program
Chun Kit Lo (Hong Kong, Hong Kong), Yik Fan Chan, Ming Wah Choi, Pui Fan Chan, Yuen Yee Chan, Chung Leung Poon, Chung Ming Chu

The role of a nurse active listening and counseling skills are imperative orientation toward patient
Aleksandra Trupkovic (Duga Resa, Croatia), Andreja Sajnic, Tanja Zovko, Kristina Vuger, Vida John

Does lung transplantation affect on the improvement of psychological status in patients with adult cystic fibrosis?
Ivana Lalic (Zagreb, Croatia), Andrea Vukic Dugac, Tanja Zovko, Andreja Sajnic, Vida John, Ana Mustac, Milica Tepavac, Dorian Tjesic-Drinkovic, Duska Tjesic-Drinkovic, Miroslav Samzarzija

Anxiety and depression in adult patients with cystic fibrosis in Croatia: results from adult CF centre
Ivana Lalic (Zagreb, Croatia), Andrea Vukic Dugac, Tanja Zovko, Andreja Sajnic, Vida John, Ana Mustac, Milica Tepavac, Dorian Tjesic-Drinkovic, Duska Tjesic-Drinkovic, Miroslav Samzarzija

Obstructive sleep apnea and specific cardiovascular outcomes
Andrea Sajnic (Zagreb, Croatia), Aleksandra Trupkovic, Tanja Zovko, Sandra Karabatic, Ivana Lalic, Miroslav Samzarzija
### PA1508
**Hidden tuberculosis - team work in preventing the spread of infection**
Alesandra Trupkovic (Duga Resa, Croatia), Andreja Sajnic, Tanja Zovko, Kristina Vuger, Vida John

### PA1509
**Contents of nurse-led interventions for the promotion of self-management in COPD patients: a systematic literature review**
Miguel Padilha (Porto, Portugal), Paulo Machado, Ana Ribeiro, José Ramos, Carolina Pinho, Francisco Vieira

### PA1510
**Chronic pain after lung transplantation**
Ivana Lalic (Zagreb, Croatia), Tanja Zovko, Andreja Sajnic, Sandra Karabatic, Ana Zivkusic, Aleksandra Trupkovic, Ana Hecimovic, Latinka Basara, Gordana Pavlova, Miroslav Samardzija

### PA1511
**Effects of anxiety and depression on quality of life in Chronic Obstructive Pulmonary Disease patient-caregiver dyads**
Dhurata Ivziku (Roma (RM), Italy), Marco Clari, Maria Matarese

### PA1512
**Patients initial experiences of sleep apnea CPAP treatment**
Kirsten Hald Nielsen (Svendborg, Denmark), Anne Dichmann Sorknaes, Bettina Nissen Pedersen

### PA1513
**Real-time symptom monitoring of dyspnea via ecological momentary assessment**
Sarah Miller (Mt Pleasant, United States of America), Ronald Teufel II, Erin Silverman

### PA1514
**The effect of tobacco smoke on paediatric respiratory disorders during sleep.**
Ania Doboszynska (Olsztyn, Poland), Anna Wlodarska

### PA1515
**Study on The Correlation between Alexithymia and Social Support of Nurses in ICU**
Xin Zhong (Changchun (Jilin), China), Hongjing Lin, Xueli Zhang

### PA1516
**Relationship of anxiety and depression with sociodemographic characteristics in hospitalized patients with chronic obstructive pulmonary disease**
Azra Hodzic (Dubranc, Croatia), Andreja Sajnic, Korneljda Erdelja, Ana Podnar, Ivana Barisic, Kristina Pauker, Tanja Zovko, Sladana Rezic, Zrinka Pukljak Irincin

### PA1517
**Investigation of The Factors Affecting Psychosocial Adjustment To COPD**
Selman celik (Istanbul, Turkey), Hediye Arslan Ozkan

### PA1518
**Admission to the ICU: risk for the development of anxiety and depression**
Azra Hodzic (Dubranc, Croatia), Andreja Sajnic, Korneljda Erdelja, Ana Podnar, Ivana Barisic, Kristina Pauker, Tanja Zovko, Sladana Rezic, Zrinka Pukljak Irincin

### PA1519
**Patient perspectives and experience on the diagnostic pathway of lung cancer – a qualitative study**
Helle Marie Christensen (Tommerup st., Denmark)

### PA1520
**Examination of Smoking, Depression, Sleep Apnea and Dyspnea Situations in Elderly Individuals**
Arslan Ozkan Hediye (Istanbul, Turkey), Selman celik, Hediye Arslan Ozkan

### PA1521
**A nurse-based organizational model to conduct clinical trials in respiratory diseases: experience from Palma de Mallorca**
Meritxell López Zamora (Palma De Mallorca, Spain), Angel Rios Olivencia, Amanda Iglesias Coma, Catalina Aguilo Monjo, Margalida Ensenyat Catalunya, Nuria Toledo-Pons, Maria Macia Palazon, Antonio Clemente Ximenis, Patrícia Tortosa Montejo, Ernest Sala Llina, Borja G. Cosio Piqueras

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**Session 138**

### Lunchtime session: Advances in idiopathic pulmonary fibrosis treatment, tracheobronchial reconstruction using bioengineering and clinical prediction rules for diagnosing pulmonary embolism

A joint ERS/JAMA lunchtime session

**Aims:**
(i) To review the current treatments for idiopathic pulmonary fibrosis (IPF), with a particular focus on a novel treatment that was recently reported in the Journal of the American Medical Association (JAMA); (ii) to review the current approaches to tracheobronchial reconstruction in thoracic surgical oncology, with particular attention to a novel approach that was recently reported in JAMA; and (iii) to review the clinical prediction rules that are used to evaluate patients who present with symptoms or signs that are suggestive of pulmonary embolism, with a particular focus on the relevant randomised clinical trial evidence that was recently reported in JAMA.

**Disease(s):** Interstitial lung disease, Thoracic oncology

**Method(s):** General respiratory patient care, Surgery, Transplantation

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
**Session 139**  
13:00 - 14:30  
**Championship: Respiratory championship**  
**Become a champion in respiratory medicine**  
**Aims:** to watch four teams compete in a state-of-the-art review of the major fields of respiratory medicine. The audience will be able to participate as well by answering the questions with their mobile devices.  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, Student, Trainee  
**Chairs:** Konrad E. Bloch (Zurich, Switzerland), Thomas Brack (Glarus, Switzerland)

- **Introduction**  
  Konrad E. Bloch (Zurich, Switzerland), Thomas Brack (Glarus, Switzerland)

- **Airfel Tower**  
  Marion Ferreira (La Riche, France), Maeva Zysman (Montreuil, France), Simon Valentin (Nancy, France)

- **Aeropassion**  
  Ana-Maria Zaharie (Bucurest, Romania), Valentin Caius Cosei (Bucuresti (Sector 3), Romania), Andrei Lesan (Cluj (Cluj Napoca), Romania)

- **The Wonderpuls**  
  Rottem Kuint (Jerusalem, Israel), Lilach Israeli-Shani (Tel Aviv, Israel), Ori Wand (Kfar Sava, Israel)

- **BREATHCON2**  
  Tiago Alfaro (Coimbra, Portugal), Paulo Miguel Sotto Mayor Moreira De Matos (Braga, Portugal), Pedro Gonçalo De Silva Ferreira (Coimbra, Portugal)

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**Session 140**  
13:00 - 14:15  
**Assembly members' meeting: Assembly 4 Clinical physiology and sleep**  
**Chairs:** Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris Cedex 13, France)

**Session 141**  
13:00 - 14:15  
**Assembly members' meeting: Assembly 2 Respiratory intensive care**  
**Chairs:** Raffaele Scala (Arezzo, Italy), Leo M.A. Heunks (Amsterdam, Netherlands)

**Session 142**  
13:00 - 14:15  
**Assembly members' meeting: Assembly 10 Respiratory infections**  
**Chairs:** Graham H. Bothamley (London, United Kingdom), Eva Polverino (Barcelona, Spain)

**Session 143**  
13:00 - 14:15  
**Assembly members' meeting: Assembly 8 Thoracic surgery and transplantation**  
**Chairs:** Stefano Elia (Roma (RM), Italy), Federica Meloni (Pavia (PV), Italy)

**Session 144**  
13:00 - 14:15  
**Assembly members' meeting: Assembly 12 Interstitial lung diseases**  
**Chairs:** Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece)

**Session 145**  
13:00 - 14:15  
**Assembly members' meeting: Assembly 11 Thoracic oncology**
7.2B  Session 146  13:00 - 14:15
Lungs on fire: Interstitial Lung Diseases & Respiratory Infections

Aims:
• Study real challenging clinical cases
• Learn and exchange ideas with a panel of respiratory experts
• Discuss the various diagnosis and treatment options

Disease(s): Interstitial lung diseases  Respiratory infections

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Critical/Intensive care physician, Paediatrician, Thoracic oncologist, Nurse, Radiologist, Trainee

Chairs: Vincent Cottin (Lyon, France), António Morais (Maia, Portugal), Luca Richeldi (Roma, Italy), Bruno Crestani (Paris, France), Pierre-Régis Burgel (Sorbonne Paris Cité, France)

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13:00 - 14:15
Case 1 - Author: S. Yamawaki (Tokyo, Japan)
Case 2 - Author: A. Shiroshita (Kamogawa, Japan)
Case 3 - Author: J-B. Duquenne (Liège, Belgium)
Case 4 - Author: C. Debrus (Luxembourg, Luxembourg)
Case 5 - Author: A. He imovi (Zagreb, Croatia)

7.3J  Session 148  13:00 - 14:15
Assembly members' meeting: Assembly 13 Pulmonary vascular diseases

Chairs: Marion Delcroix (Leuven, Belgium), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

13:15-14:30
INDUSTRY PRACTICAL WORKSHOP  SEE PAGE 1

7.3A  Session 164  14:45 - 16:45
Year in review: Paediatric Year in Review

Aims: The audience will be updated in four topics in paediatric respiratory medicine. The most recent and significant literature and developments relating to these topics will be highlighted.

Disease(s): Airway diseases  Paediatric respiratory diseases

Method(s): Cell and molecular biology  Epidemiology  Respiratory intensive care

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Jonathan Grigg (London, United Kingdom), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

14:45  What’s new in cystic fibrosis?
Ian Balfour-Lynn (London, United Kingdom)

15:15  What’s new in paediatric asthma?
Stanley J. Szefler (Aurora, United States of America)

15:45  What’s new in neonatology?
Irwin K. M. Reiss (Rotterdam, Netherlands)

16:15  What can we learn from paediatric cohort studies?
Claudia E. Kuehni (Bern, Switzerland)
Session 165 14:45 - 16:45

Symposium: State of the art session: Sleep and breathing disorders

**Dyspnoea, brain and sleep disorders**

**Aims:** Breathlessness debilitates millions of people with chronic illness and is an “all-consuming and life-changing” experience that is subjective and intensely personal and associated with profound fear. It is the primary symptom in chronic obstructive pulmonary disease (COPD). The severity of breathlessness is frequently discordant with airway pathophysiology. Obstructive sleep apnoea (OSA) is a disorder of breathing during sleep that temporarily reduces cerebral oxygenation and disrupts sleep. A growing body of research shows that OSA associates with a relatively consistent pattern of deficits in cognition, particularly in attention, episodic memory and executive function. These deficits can be partially remediated by treatment. Despite a number of competing hypotheses that explain how OSA affects cognition, reliable evidence is hard to find. This may relate to the many conditions that are commonly comorbid with OSA or to the methodological challenges in this field. This state of the art session will elucidate the intimate relationship between the brain and the breathing “disorders” in chronic respiratory conditions.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Imaging, Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Physiologist, Scientist (basic, translational), Student, Adult pulmonologist/Clinician

**Chairs:** Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris Cedex 13, France)

14:45  
**Clinical dyspnoea: brain mechanisms and their clinical impact on brain functions**
Thomas Similowski (Paris Cedex 13, France)

15:15  
**Treating breathlessness via the brain**
Andreas von Leupoldt (Leuven, Belgium)

15:45  
**OSA and cognition**
ivana Rosenzweig (London, United Kingdom)

16:15  
**Hypoxia, arousals, breathing effort: a roadmap to comorbidities?**
Silke Ryan (Dublin 14, Ireland)

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Session 166 14:45 - 16:45

Symposium: Current and evolving tests in lung function: pro/con debate

**Aims:** to stage pro and con debates that will challenge our perceptions of current and evolving tests in lung function assessment. Three pro and con debates, each involving two speakers, will be presented. In each debate, the speakers will each deliver a sharp 12 minute presentation and there will be a 10 minute open discussion after both speakers have spoken. Thereafter, an update on the Global Lung Function Initiative (GLI) will be provided.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Irene Steenbruggen (Zwolle, Netherlands), Nicolas Roche (Paris, France)

14:45  
**FEV1 is helpful in respiratory medicine - pro**
Roberto Rodriguez Roisin (Barcelona, Spain)

15:02  
**FEV1 is helpful in respiratory medicine - con**
Omar S. Usmani (London, United Kingdom)

15:19  
**Forced oscillation technique is ready for screening respiratory disease - pro**
Ronald Dandurand (Beaconsfield (QC), Canada)

15:36  
**Forced oscillation technique is ready for screening respiratory disease - con**
Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom)

15:53  
**Multiple breath washout technique is a helpful clinical tool for assessing respiratory disease - pro**
Bruce Thompson (Melbourne, Australia)

16:10  
**Multiple breath washout technique is a helpful clinical tool for assessing respiratory disease - con**
Philipp Latzin (Bern, Switzerland)

16:27  
**Current challenges and future directions of the Global Lung function Initiative (GLI)**
Brendan Cooper (Edgbaston (Birmingham), United Kingdom)
**Symposium: Air pollution and transplantation: near to one's heart and lungs!**

**Aims:** This session highlights recent findings regarding air pollution and its detrimental effects on lung transplant recipients world-wide.

**Tag(s):** Translational

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Patient, Policy maker, Scientist (basic, translational), Student, Adult pulmonologist/Clinician

**Chairs:** Bart Vanauwenberde (Leuven, Belgium), Christophe Pison (Grenoble, France)

14:45 **Linking ambient particulate matter pollution effects with oxidative biology and immune responses**
Frank J. Kelly (London, United Kingdom)

15:15 **Epidemiological evidence for air pollution being a risk factor for transplant failure**
Paul Cullinan (London, United Kingdom)

15:45 **Air pollution and Respiratory health: epidemiological evidences and clinical implications**
Valerie Siroux (La Tronche, France)

16:15 **Panel discussion**

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**Symposium: Interstitial lung disease: an interdisciplinary approach**

**Translating quality standards from paper to practice**

**Aims:** To show how a person-centred integrated approach to the management of idiopathic pulmonary fibrosis (IPF) is fundamental to delivering high quality care to adults with IPF. Specific aims are as follows: to demonstrate the impact of the specialised nurse on the quality of care delivered to patients with interstitial lung disease (ILD); to describe the association between patient education and quality of life; to discuss, using IPF case examples, the complexity of ILD and the challenges faced in providing individualised care across the disease trajectory, including access to palliative care; and to provide an update on contemporary measures that are used to optimise patient outcomes.

**Disease(s):** Interstitial lung diseases

**Method(s):** General respiratory patient care

**Tag(s):** Translational

**Target audience:** General practitioner, Nurse, Physiologist, Physiotherapist, Adult pulmonologist/Clinician

**Chairs:** Michael Kreuter (Heidelberg, Germany), Wim A Wuyts (Rotselaar, Belgium), Katleen Leceuvre (KESSEL-LO, Belgium)

14:45 **Perspectives on managing an ILD patient**
Luca Richeldi (Roma, Italy)

15:12 **Patient testimonial**
Klaus Geissler (Bietigheim-Bissingen, Germany)

15:24 **The ILD-nurse putting the focus on the patient: PROMs and PREMs**
Anne-Marie Russell (London, United Kingdom)

15:51 **Pulmonary rehabilitation in IPF**
Rainer Gloeckl (Schoenau am Koenigssee, Germany)

16:18 **Palliative care for patients with ILD - the need for state-of-the-art knowledge**
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

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**Symposium: Management of pleural infection in 2018**

**Pleural infection**

**Aims:** To highlight the increasing incidence of pleural infection across all age groups; to identify validated prognostic scores at presentation and those at highest risk of mortality; to discuss the best radiological investigations in this setting; to summarise the best way of managing medically and surgically these patients; to identify the microbiological spectrum or the disease and best antimicrobials to treat these infections; to summarise the best way to manage paediatric pleural infection.

**Disease(s):** Respiratory infections, Paediatric respiratory diseases

**Method(s):** Imaging, Surgery

**Tag(s):** Clinical

**Target audience:** Nurse, Paediatrician, Radiologist, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
**7.3B** Session 171  14:45 - 16:45

**Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care**

**Disease(s):** Airway diseases

**Method(s):** Physiology  Cell and molecular biology  General respiratory patient care

**Chairs:** Frits M.E. Franssen (Horn, Netherlands), Guido Vagheggini (Volterra (PI), Italy)

**OA1618 Early pulmonary rehabilitation after acute exacerbation of COPD**
Jakob Lyngby Kjaergaard (Brønshøj, Denmark), Carsten B. Juhl, Mette Rosenberg, Hanne Rohde, Henny Riber, Linda Poulsen, Torgny Wilcke

**OA1619 Exercise improves physical activity and comorbidities in obese adults with asthma**
Patricia Duarte Freitas (São Paulo (SP), Brazil), Aline G Silva, Palmira G Ferreira, Analucia Da Silva, Joao M Salge, Regina M Carvalho-Pinto, Alberto Cukier, Claudia M Brito, Márcio C Mancini, Celso R F Carvalho

**OA1620 Effectiveness of Pulmonary Rehabilitation for Patients with Asthma: EPRA-RCT**
Konrad Schultz (Bad Reichenhall, Germany), Michael Wittmann, Rupert Wagner, Nicola Lehbert, Larissa Schwarzkopf, Boglak Szentes, Dennis Nowak, Hermann Faller, Michael Schuler

**OA1621 Pericyte coverage of skeletal muscle capillaries is impaired during training-induced angiogenesis in COPD patients**
Léo Blervaque (Montpellier CEDEX 5, France), Pascal Pomiès, Matthias Catteau, Emile Passerereux, Bronia Ayoub, Marine Blaquière, Lisa Ducros, Francois Bughin, Nicolas Molinari, Jacques Mercier, Maurice Hayot, Fares Gouzi

**OA1622 Unbiased analysis of skeletal muscle molecular responses upon pulmonary rehabilitation in advanced COPD**
Anita Kneppers (Maastricht, Netherlands), Roy Haast, Ramon Langen, Lex Verdijk, Pieter Leermakers, Harry Gosker, Luc Van Loon, Mitja Lainscak, Annemie Schols

**OA1623 Five-repetition sit-to-stand and mortality in COPD: a prospective cohort study**
Sarah Jones (Berkshire, United Kingdom), Claire Nolan, Suhani Patel, Ruth Barker, Samantha Kon, Michael Polkey, Nicholas Hopkinson, Matthew Maddocks, William Man

**OA1624 Regular extended release morphine for chronic breathlessness: a multi-centre double-blind RCT**
David Currow (Sydney (NSW), Australia), Sandra Louw, Philip McCloud, Belinda Fazekas, John Plummer, Christine Mcdonald, Meera Agar, Katherine Clark, Nikki Mceaffrey, Amy Abernethy, Magnus Ekstrom

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**7.3Z2** Session 172  14:45 - 16:45

**Hot topics: Cleaning agent exposures: are they really harmful to lung health?**

**Clinical review of inhaled toxicity and potential mechanisms, epidemiology and clinical effects**

**Aims:** to present and discuss (i) what is known about the structure, function and toxicity of cleaning agent exposures, (ii) details on the epidemiology of lung diseases attributed to such exposures, (iii) strong and weak evidence of lung diseases' epidemiology attributed to cleaning agent exposures, (iv) links with asthma and COPD.

**Disease(s):** Airway diseases

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, Nurse, Physiologist, Scientist (basic, translational)

**Chairs:** David Fishwick (Sheffield (South Yorkshire), United Kingdom), Sara De Matteis (London, United Kingdom), Frédéric De Blay (Strasbourg, France)

**OA1625 Cleaning agents: how they look like and how might they cause respiratory harm?**
Benoit Nemery (Leuven, Belgium)

**OA1626 Cleaning agents and asthma: what does the epidemiology really tell us?**
Jan-Paul Zock (Utrecht, Netherlands)
Symposium: Mitochondrial dysfunction as a driver of lung disease

**Aims:** to describe the pathogenic roles of mitochondrial dysfunction in chronic respiratory diseases. Recent studies on the mitochondrial dysfunction in diseases such as cancer and ageing have profoundly increased our understanding of how mitochondrial function regulates multiple cell functions, including energy production, apoptosis, calcium and reactive oxygen species signalling, and the generation of biosynthesis intermediates. Maintaining mitochondrial function is thus critical for ensuring proper organ function. An improved understanding of the mitochondrial dysfunction in lung diseases may promote the identification of novel therapeutic options for chronic respiratory diseases. It may also lead the way to considering repurposing already approved drugs such as metformin.

**Disease(s):**
- Airway diseases
- Interstitial lung diseases

**Method(s):**
- Cell and molecular biology

**Tag(s):**
- Translational

**Target audience:** Clinical researcher, Scientist (basic, translational), Student, Trainee

**Chairs:** Rachel Chambers (London, United Kingdom), Charles Dela Cruz (New Haven, United States of America)

**14:45 An introduction to mitochondria in lung biology and disease**
Silke Meiners (München, Germany)

**15:15 Metabolic control of longevity**
Natascha Sommer (Gießen, Germany)

**15:45 Lung fibrosis - a disease of mitochondrial dysfunction**
Ana Mora (Pittsburgh, United States of America)

**16:15 Role of mitochondria in the activation of immune cells in the lung**
Argyris Tzouvelekis (Athens, Greece)

**Oral presentation: On the right path: understanding and improving the function of an overloaded right heart ventricle**

**Disease(s):**
- Airway diseases
- Pulmonary vascular diseases
- Sleep and breathing disorders

**Method(s):**
- Imaging
- Cell and molecular biology
- Physiology
- Surgery

**Chairs:** Frances S. De Man (Amsterdam, Netherlands), François Potus (Kingston, Canada)

**OA1633 Right ventricular mass/volume in PAH: A double edged sword?**
Franz Rischar (Tucson, United States of America), Rebecca Vanderpool, Kelly Wickstrom, Ankit Desai, Sophia Airhart, Ryan Avery, Robert Naeije

**OA1634 Effects of urocortin-2 on cellular Ca2+ homeostasis in right heart failure induced by pulmonary artery hypertension**
Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal), Simon C Kraler, Senka Holzer, Adelino Leite-Moreira, Simon Sedej, Carmen Brás-Silva

**OA1635 Allopurinol reduces RV mass in patients with severe COPD**
Patrick Liu Shiu Cheong (Newport-on-Tay, United Kingdom), Brian Lipworth, Jonathan Weir-Mecall, Allan Struthers

**OA1636 The right ventricle function in highlanders with sleep-related respiratory disturbances**
Cholponbaeva Meerim (Bishkek, Kyrgyzstan), Kubatbek Muratali uulu, Samat A Satybaldiev, Nursultan Baktybek, Aidana T Toktosunova, Abdurashid M Maripov, Akpay Sh Sarybaev

**OA1637 Young males with pulmonary arterial hypertension have a high afterload and low right ventricular ejection fraction at presentation**
Joanne Groeneveldt (Amsterdam, Netherlands), Cathelijne E.E. Van Der Bruggen, Pia Trip, Nico Westerhof, Berend E. Westerhof, Anton Vonk-Noordergraaf, Frances S. De Man

**OA1638 Outcomes of surgical treatment of VSD with pulmonary hypertension**
Sheenam Walia (Chandigarh (Uttar Pradesh), India), Gd Puri, Komal Gandhi, Mk Ganesh, Banasheer Mandal
Session 175
Oral presentation: Educational tools to improve your practice

Disease(s): Airway diseases, Respiratory infections, Sleep and breathing disorders

Method(s): Imaging, Public health, General respiratory patient care

Chairs: Gernot G.U. Rohde (Frankfurt am Main, Germany), Chad Jackson (United States of America)

OA1639 Education and training in lung ultrasound: a systematic review
Pia Iben Pietersen (Odense C, Denmark), Kristian R. Madsen, Ole Graumann, Lars Konge, Bjørn U. Nielsen, Christian B. Laursen

OA1640 Interprofessional education (IPE) for respiratory care in neuromuscular disease (NMD) is feasible, and improves confidence in clinical practice
Alanna Hare (London, United Kingdom), Michelle Chatwin, Deborah Field, Hui-Leng Tan, Anita Simonds

OA1641 Comparative analysis of Respipedia, Nupedia and Wikipedia. Is it possible for Respipedia to avoid Nupedia's fate?
Piotr Napor (Wroclaw, Poland), Sylwia Szromba, Piotr M. Napor

OA1642 The role of mobile apps in allergic respiratory diseases: an Italian survey report
Carlo Lombardi (Roma (RM), Italy), Matteo Bonini, Giovanni Passalacqua

OA1643 Development of a shared decision-making tool to support patients and their healthcare provider in choosing the best inhaler device
Esther I. Metting (Groningen, Netherlands), Lise Van Dijk, Halima El Messlaki, Jos Luers, Janwillem Kock

OA1644 Reframing asthma and inhaled corticosteroids (ICS) to modify treatment beliefs: an online randomised controlled trial
Caroline B. Katzer (London, United Kingdom), Vari Wileman, Amy H.Y. Chan, Stephanie J.C. Taylor, Rob Horne

OA1645 The Pulmonary Passport: Uptake of a regional electronic procedure logbook in Respiratory Medicine
Maryam Ahmed (Manchester, United Kingdom), Tarek Saba, Tracy Duncan, Seamus Grundy, Matthew Evison

Session 176
Oral presentation: Novel immunology-based therapies in asthma and COPD

Disease(s): Respiratory critical care, Airway diseases

Method(s): General respiratory patient care, Cell and molecular biology

Chairs: Apostolos Bossios (Stockholm, Sweden), Marco Idzko (Vienna, Austria)

OA1646 Late Breaking Abstract - Pharmacological characterization of T cell-induced broncho-constriction in vitro and in vivo
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Kouyama, Miyako Yamaguchi, Chiemi Kumitani, Akemi Ohtomo-Abe, Norihiko Fujita, Maki Iwata, Kinya Nagayama, Kai Ryu, Yuto Nakamura, Yasuhiro Tomita, Yuto Hamada, Hiroaki Hayashi, Kentaro Watai, Yosuke Kameide, Kiyoshi Sekiya, Yuma Fukutomi, Masami Taniguchi, Takayuki Ohtomo, Osamu Kaminuma

OA1647 IL-37 ameliorates experimental asthma by inhibiting IL-1
Alexandra Schroeder (Borstel, Germany), Lars Lunding, Christina Vock, Bianca Schaub, Ulrich Zissler, Heinz Fehrenbach, Michael Wegmann

OA1648 Alamandine reduces eosinophilic inflammation in an experimental model of asthma
Juliana Gregório (Belo Horizonte, Brazil), Giselle Magalhães, Glória Rodrigues-Machado, Kezia Gonzaga, Aline Oliveira, Fernando Souza-Neto, Barbara Rezende, Vanessa Pinho, Lucíola Barcelos, Rafaela Fernandes, De Silva, Robson Santos, Maria Jose Campagnole-Santos

OA1649 Omalizumab enhances the percentage of GARP cells in both regulatory and terminally differentiated effector Th cells in severe allergic asthmatics
Juan-José Nieto-Fontarigo (Santiago De Compostela, Spain), Francisco-Javier Salgado-Castro, Maria-Ester San-Jose-Capilla, José-Martin Carreira-Villamar, Luis Valdés-Cuadrado, Ana Faraldo-García, Miguel-Angel Garcia-González, Carmen Diego-Roza, Pablo Martín-Lancharro, José-Domingo Mourre-González, Tania Liñares-Mata, El-Bahi Takkouche-Soulamas, Pilar Arias, Montserrat Nogueira, Francisco-Javier González-Barcala

OA1650 Immunogenicity of Mepolizumab in Patients with Severe Eosinophilic Asthma: Experience from the Clinical Development Program
Hector Ortega (San Diego, United States of America), Erik Meyer, Guy Brusselle, Koichiro Asano, Robert Price, Charlene Prazma, Frank Albers, Steven Yancey, Gerald Gleich
### OA1651
**Dulimumab efficacy in asthma patients with comorbid chronic rhinosinusitis or nasal polyposis (CRS/NP) in LIBERTY ASTHMA QUEST**  
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Linda Ford, Lawrence Sher, Klaus F. Rabe, Hae-Sim Park, Borja G. Cosio, Meredith C. Foster, Heribert Staudinger, Jaman Maroni, Paul Rowe, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolanale Akinlade, Neil M. H. Graham, Ariel Teper

### OA1652
**Tryptase loss-of-function mutations reduce tryptase expression and predict asthmatic response to anti-IgE therapy**  
David Choy (South San Francisco, United States of America), Neil Trivedi, Amy Dressen, Magda Babina, Rahul Ahuja, Tangsheng Yi, Janet Jackman, Guiquon Ji, Jason Hackney, Luz Orozco-Guerra, Diana Chang, George Caughey, Brian Yaspan

### OA1653
**Systemic immunological changes following intravenous mesenchymal stromal cell infusion in stable COPD patients**  
Jesse Armitage (Perth (WA), Australia), Dino Tan, Russel Troedson, Paul Young, Kay-Vin Lam, Kathryn Shaw, Marian Sturm, Daniel Weiss, Yuben Moodley

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### Session 177  14:45 - 16:45

**Oral presentation: Clinical trials in COPD: new results**

**Disease(s):** Airway diseases, Respiratory critical care, Respiratory infections, Respiratory infections  
**Method(s):** General respiratory patient care

**Chairs:** Kenneth R. Chapman (Toronto (ON), Canada), Marija Vukoja (Sremska Kamenica, Republic of Serbia)

#### 7.3P

**Late Breaking Abstract - Azithromycin for acute COPD exacerbations requiring hospitalization – the BACE trial results**  
Wim Janssens (Leuven, Belgium), Kristina Vermeersch, Maria Gaborvskas, Joseph Aumann, Ingel K. Demedts, Jean-Louis Corhay, Eric Marchand, Hans Slabynck, Christel Haenebalcke, Michiel Haerens, Shane Hanon, Pham Anh Hong Nguyen, Rudi Peché, Antoine Fremault, Tine Lauwerier, Bert Vandenberg, Stephanie Everaerts, Vincent Ninane, Geert M Verleden, Thierry Troosters, Kris Bogaerts, Guy G Brusselle

**COPD exacerbations in the phase 3 revefenacin clinical trial program**  
James F. Donohue (Chapel Hill, United States of America), Sanjay Sethi, Craig N. Barnes, Edmund J. Moran, Srikanth Pendyala, Glenn Crater, Brett Haumann

**Pharmacodynamic and pharmacokinetic results after repeated doses of AZD8871 in COPD patients**  
Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom), Carol Astbury, Lali Jimenez, Ulrika Walby Hamren, Beatriz Seoane, Marie-Pierre Malice, Victor Balaguer, Alejandra Lez, Ajay Aggarwal, Dave Singh

**Early Clinically Important Improvement (ECII) and exacerbation outcomes in the FLAME study**  
Konstantinos Kostikas (Basel, Switzerland), Alexander J. Mackay, Claire F. Vogelmeier, Stefan-Marian Frent, Pascal Pfister, Pritam Gupta, Donald Banerji, Francesco Patalano, Jadwiga A. Wedzicha

**Single inhaler triple therapy in patients with COPD: response rates in health-related quality of life in the IMPACT Trial**  
Maggie Tabberer (Uxbridge (Middlesex), United Kingdom), Christine Elaine Jones, Sally Kilbride, Gerard J Criner, Peter Lange, Meilan K Han, Fernando Martinez, David A Lipson

**Reduction in fatal events with extrafine inhaled corticosteroid (ICS)-containing medications: results of stratified safety pooled analysis of the TRILOGY, TRINITY and TRIBUTE studies.**  
Leonardo Michele Fabbri (Modena, Italy), Dave Singh, Nicolas Roche, Massimo Corradi, Alessandro Guasconi, Mario Scuri, Isabella Montagna, Géraldine Cohuet, Catherine Francisco, Stefano Vezzoli, Stefano Petruzzelli, Alberto Papi

**Economic and quality of life consequences of clinically important deterioration in patients with COPD: results from the TORCH study**  
Afisi Ismaila (Cary, United States of America), Maurice Driessen, Andrew Briggs, Nancy Risebrough, Ian Naya, Neckd Gunsoy, Victoria Paly

**KRONOS: 24-week study of triple fixed-dose combination budesonide/glycopyrronium/formoterol (BGF) MDI via co-suspension delivery technology vs glycopyrronium/formoterol (GFF) MDI, budesonide/formoterol (BFF) MDI and BFF inhalation powder in COPD**  
Gary T. Ferguson (Farmington Hills, United States of America), Klaus F. Rabe, Fernando J. Martinez, Leonardo M. Fabbri, Chen Wang, Masakazu Ichinose, Eric Bourne, Shailla Ballal, Kiernan Deangelis, Magnus Aurivillius, Paul Dorinsky

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### Session 178  14:45 - 16:45

**Poster discussion: New insights in the management of chronic respiratory failure**

**Disease(s):** Sleep and breathing disorders, Airway diseases, Respiratory critical care  
**Method(s):** Epidemiology, Physiology, General respiratory patient care, Respiratory intensive care

**Chairs:** Raluca Mihaela Bercea (Kolnes, Norway), Stephan Walterspacher (Allensbach, Germany)
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<th>Individually customized settings can extend the use of mechanical assisted cough in amyotrophic lateral sclerosis</th>
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<td>Tiina Andersen (Bergen, Norway), Astrid Sandnes, Ove Fondenes, Thomas Halvorsen, Ole-Bjørn Tysnes, John-Helge Heimdal, Hege Clemm, Maria Vollseter, Ola Orange Rok sund</td>
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<td>Accuracy of built-in software for the detection of residual apneic events occurring during non-invasive ventilation.</td>
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<td>Elena Lindemann (Nürnberg, Germany), Maxime Patout, Elodie A. Lhuillier, Gill Arbarte, Nicholas Hart, Patrick B. Murphy</td>
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<td>PA1664</td>
<td>Effects of nocturnal Non-Invasive Ventilation (NIV) with automatic tailoring of Positive End Expiratory Pressure (PEEP) on gas exchange and patient-ventilator interaction in COPD (Chronic Obstructive Pulmonary Disease)</td>
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<td>Ilaria Milesi (Milano (MI), Italy), Roberto Porta, Michele Vitacca, Simona Cacciatore, Luca Barbano, Raffaele Dellacà</td>
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<td>Generic longitudinal and real-time cloud-based monitoring for hospital- and home-based non-invasive ventilation – a Proof-of-Concept study</td>
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<td>Gabriel Benz (Winterthur, Switzerland), Bernarde Schillig, Daniel Wattenhofer, Franz Michel, Martin Brutsche</td>
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<td>Effectiveness of humidified and warmed High Flows Nasal Oxigen (HFNO) in frequently exacerbating COPD patients.</td>
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<td>Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Francis-Edouard Gravier, Clément Médrina, Guillaume Prieur, Catherine Tardif, Jean-François Muir, Antoine Cuvelier, Gregory Reychler, David Debeaumont, Catherine Viacroze</td>
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<td>2-way remote monitoring in adaptive mode allows effective and realistic provision of home Non-Invasive Ventilation(NIV) to patients with severe COPD</td>
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<td>Grace McDowell (Glasgow (Glasgow), United Kingdom), Hannah Toellmer, Duncan Macfarlane, Robin Tourish, Christopher Canavan, Aileen Brown, Heather Amblin, Christopher Carlin</td>
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<td>Remote monitoring of home non-invasive ventilation: a feasibility study</td>
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<td>Annabel Nickol (Oxford, United Kingdom), Julie Young, Nichola Ashforth, Katherine Price, Alex Wilson, Annabel Nickol</td>
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<td>PA1670</td>
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<td>Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Martin Wood, Francesca Gowing, Swapna Mandal</td>
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<td>Patients' expectations for a new lightweight portable noninvasive ventilator for shortness of breath</td>
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<td>Jean Christian Borel (Meylan, France), Annabelle Couillard, Charles Aguirre, Mathieu Legoires, François Arbib, Martial Desflaschelles, Thibaut Gentina, Christophe Brousse, Mohammad Chakra, Yoann Thibout, Philippe Tarodo, Michele Bognie, Emmanuel Courau, Christophe Raspaud, Patrice Ray, Alain Proust, Nathalie Plouvier, Christophe Pison, Jean Louis Paspin</td>
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<td>Charlotte Tai (London, United Kingdom), Noor Madhi, Georgia Whitlow, Katharine Martin, Sandip Banerjee</td>
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<td>PA1677</td>
<td>Home Noninvasive Ventilation with Built-in Software in Chronic Hypercapnic COPD Patients: a Mid-term Prospective, Multicenter, Randomized, Controlled Trial</td>
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<td>Lili Guan (Guangzhou, China), Luqian Zhou, Rongchang Chen</td>
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Expiratory slope variations induce physiological changes in stroke volume during non invasive ventilation in hyperinflated COPD patients

Bouchra Lamia (Rouen- Le Havre, France), Olivier Pasquier, Sandrine Pontier, Arnaud Prigent, Claudio Rabec, Jesus Gonzalez-Bermejo

Results from UK HOT-HMV Trial: Clinical importance of recovery of hypercapnia following acute life-threatening exacerbation of COPD

Patrick B. Murphy (Oxted (Surrey), United Kingdom), Gill Arbane, Maxime Patout, Nick Hart

Oral presentation: Variant forms of asthma

Late Breaking Abstract - Risk of a severe exacerbation following higher reliever use: post-hoc analysis of SYGMA 1 in mild asthma

Paul O’Byrne (Hamilton (ON), Canada), J. Mark Fitzgerald, Eric D. Bateman, Peter J. Barnes, Nanshan Zhong, Christina Keen, Millie Wang, Rosa Lamarca, Margareta Puu, Helen K. Reddel

Investigating the role of smoking in the development of aspirin-exacerbated respiratory disease

Hiroaki Hayashi (Sagamihara (Kanagawa prefecture), Japan), Yuma Fukutomi, Chihiro Mitsui, Kentaro Watai, Maki Iwata, Kisako Nagayama, Yuto Nakamura, Yuto Hamada, Kai Ryu, Yasuhiro Tomit, Youku Kamide, Kiyoshi Sekiya, Takahiro Tsuburai, Akio Mori, Yoshinori Hasegawa, Masami Taniguchi

Special phenotypes of obesity at young patients with bronchial asthma

Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Natalia Gordeeva, Svetlana Chubarova, Marina Mamaeva

Improving GINA adoption by designing a mobile based clinical decision support system

Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Marsha Gholamzadeh, Hamidreza Abtahi, Mehrnaz Asadi Gharabaghi, Zahra Talebi, Shahideh Amini

Association between the GLCCI1 variant and response to inhaled corticosteroids in South Vietnamese asthmatics

Hai Thanh Ngo Nguyen (Hồ Chí Minh, Vietnam), Van Ngoc Tran, Anh Vu Hoang

Poster discussion: Asthma management

Changes in forced oscillatory parameters in reversibility testing as predictors for cough variant asthma

Toshihiro Shirai (Shizuoka, Japan), Hirofumi Watanabe, Taisuke Akamatsu, Kanami Tamura, Toshihiro Masuda, Shingo Takahashi, Yuko Tanaka, Yoshinori Endo, Takahito Suzuki, Rie Noguchi, Mika Saigusa, Akito Yamamoto, Yuichiro Shishido, Takefumi Akita, Satoru Morita, Kazuhiro Asada

Step-down of moderate-severe asthma treatment in clinical practice


Effect of cumulative smoking history on disease burden and multimorbidity in adult-onset asthma

Minna Tommola (Seinäjoki, Finland), Pinja Ilmarinen, Leena E Tuomisto, Lauri Lehtimäki, Onni Niemelä, Petri Nieminen, Hannu Kankaanranta

Exposure-response analysis of tezepelumab in patients with severe asthma to guide phase 3 dose selection

Neang Ly (Mountain View, United States of America), Yanan Zheng, Janet M. Griffiths, René Van Der Merwe, Balaji Agoram, Lorin Roskos

Clustering analysis for omalizumab responder patient profiles identification. Fenoma study

Carlos Almonacid Sanchez (Madrid, Spain), José Gregorio Soto Campos, Paloma Campo Moz, Ana Moreira Jorge, Ignacio Jesus Davila Gonzalez

Aerobic fitness in asthmatic adolescents with fixed airway obstruction

Andrey Sousa (São Paulo (SP), Brazil), Ronaldo Aparecido Silva, Anna Lúcia Cabral, José Grindler, Alfredo José Fonseca, Milton Arruda Martins, Celso RF Carvalho
**Session 181**

**Poster discussion: Respiratory muscle function, postural control and breathing exercises in chronic respiratory conditions**

**Disease(s):** Airway diseases, Respiratory infections, Pulmonary vascular diseases, Sleep and breathing disorders, Respiratory critical care, Respiratory infections  

**Method(s):** Epidemiology, Public health, General respiratory patient care, Physiology  

**Chairs:** Wendy Darlene Reid (Toronto ON, Canada), Rachael A. Evans (Market Harborough (Leicestershire), United Kingdom)

**PA1702** Determining the efficacy of physiotherapy interventions in paediatric dysfunctional breathing  
Jane Kirkby (Sheffield, United Kingdom), Nicki Barker, Ravi Thevasagayam, Kelechi Ugonna

**PA1703** The effect of breathing retraining on patients with difficult asthma and dysfunctional breathing  
Lone Schaadt (Vallensbæk Strand, Denmark), Martin Dam Soerensen, James Hull, Celeste Porsbjerg

**PA1704** Incentive spirometry: aspects of clinical practice of professionals working with patients with respiratory dysfunction  
Veronica Parreira (Belo Horizonte (MG), Brazil), Liliane Mendes, Larissa Borges, Leticia Mendonça, Dayane Montemezzo, Giane Ribeiro-Samora

**PA1705** Maximal sustained inspiration promotes similar changes on breathing pattern and chest wall motion compared to Incentive spirometry  
Veronica Parreira (Belo Horizonte (MG), Brazil), Liliane Mendes, Luana Teixeira, Layza Cruz, Danielle Vieira

**PA1706** Effect of manual breathing assist technique on deoxygenation of sternocleidomastoid and lung volumes in patients with COPD  
Takako Tanaka (Nagasaki, Japan), Ryo Kozu
**PA1707**
**Inspiratory muscle weakness is associated to static balance in middle-aged and older women**
Ingrid Guerra Azevedo (Natal (RN), Brazil), Silvana Sousa, Felipe Morillas, Elizabel Viana, Alvaro Maciel, Saionara CâMara

**PA1708**
**Inspiratory muscle training decreases ankle proprioceptive use during balance control in patients with COPD**
Lotte Janssens (Diepenbeek, Belgium), Daniel Langer, Sauwaluk Dacha, Zafeiris Louvaris, Simon Brumagne, Nina Goossens, Charlotte Americkx, Rik Gosselink

**PA1709**
**Differences in balance between children with mild asthma and healthy children**
Katerina Neumannova (Olomouc, Czech Republic), Zuzana Kovacikova, Miroslav Janura, Jana Rydlova

**PA1710**
**The Trunk Control Test: relations with respiratory muscle strength and peak expiratory cough flow**
Monique Messaggi Sarfor (Barcelona, Spain), Estefanía García-López, Natalia Neira-Fernandez, Cindry Ramirez-Fuentes, Roser Boza, Esther Duarte, Anna Guillen-Solà

**PA1711**
**Comparison of balance and coordination abilities between asthmatic patients and healthy subjects**
Ayşenur Yilmaz (Denizli, Turkey), Süleyman Güroy, Orçin Telli Atalay, Harun Taşkin, Ali Yalman, Binnaz Fatma Evyapan

**PA1712**
**Metronome paced tachypnoea as an indicator of dynamic hyperinflation in incremental and constant work rate tests**
Clancy Dennis (Canberra (ACT), Australia), Collette Menadue, Tessa Schneeberger, Rainer Gloeckl, Daniella Leitl, Alison Harmer, Ursula Schoenheit-Kenn, David Barnes, Andreas Rembert Koczulla, Klaus Jenn, Jennifer Alison

**PA1713**
**NIV reduces oxygen consumption during rest and constant work rate exercise in patients with COPD**
Clancy Dennis (Canberra (ACT), Australia), Collette Menadue, Tessa Schneeberger, Rainer Gloeckl, Daniella Leitl, Alison Harmer, Ursula Schoenheit-Kenn, David Barnes, Andreas Rembert Koczulla, Klaus Jenn, Jennifer Alison

**PA1714**
**Comparison between manual and automated analyses of esophageal diaphragm electromyography during endurance cycling in patients with COPD**
Sauwaluk Dacha (Leuven, Belgium), Luc Janssens, Zafeiris Louvaris, Lotte Janssens, Rik Gosselink, Daniel Langer

**PA1715**
**Analysis of maximum relaxation rate in patients with Duchenne Muscular Dystrophy compared to healthy subjects**
Jéssica Danielle Medeiros da Fonseca (Santa Cruz, Brazil), Ilza Priscila Santos, Maria Lira, Layana Marques, Ana Marcelino, Mario Emílio Dourado-Júnior, Guillelme Gurgonezi, Vanessa Resqueti

**PA1716**
**A mismatch between dyspnea and general-respiratory functional tests in patients with Amyotrophic Lateral Sclerosis**
Vinícius Lamonti (São Paulo (SP), Brazil), Mayra Pereira, Jefferson Ferreira, Gerson Chadi, Frederico Jorge, Pedro Caruso, Leticia Cardenas, Natalia Pontes, Flavia Badaro, Carlos Carvalho, Andre Luis Albuquerque

**PA1717**
**High-intensity inspiratory muscle training in bronchiectasis: a randomized controlled trial**
Ozge Ozalp (Ankara, Turkey), Deniz Inal-Ince, Asilhan Cakmak, Ebru Calik-Kutukcu, Melda Saglam, Sema Savci, Naciye Vardar-Yaghi, Lutfi Ciplak, Jale Karakaya, Hulya Ankan

**PA1718**
**Effects of inspiratory muscle training on the sensation of dyspnea in patients with pulmonary hypertension group I and IV - Randomized controlled clinical trial**
Fabricio Farias da Fontoura (Porto Alegre (RS), Brazil), Gabriela Roncato, Guilherme Watte, Fernanda Brum Spilimbergo, Gisela Martina Bohns Meyer, Katya Rigatto, Danielo Cortozi Berton

**7.2C**
**Session 182**
**14:45 - 16:45**
Poster discussion: Systematic reviews on the health effects of emerging tobacco products and electronic nicotine delivery systems (ENDS)

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections

**Method(s):** Cell and molecular biology, General respiratory patient care, Epidemiology, Physiology, Public health

**Chairs:** Mehmet Atilla Uysal (Istanbul, Turkey), Constantine Vardavas (Athens, Greece)

**PA1719**
**Late Breaking Abstract - The impact of tabacco heating systems on haemodynamics**
Lukas Wittig (Lübeck, Germany), Švenja Belkin, Kai Mortensen, Michael Reppel, Daniel Drömann, Klasa Franzén

**PA1720**
**Study of lung functions in tobacco chewers**
Abhijit Vinod (Mumbai (Maharashtra), India), Abhay Uppe, Girija Nair

**PA1721**
**Acute health effects of short-term use of e-cigarette on respiratory and cardiovascular system**
Mateusz Jankowski (Katowice, Poland), Grzegorz Brożek, Jan Zejda, Paulina Majek, Jakub Lubanski

**PA1722**
**Passive exposure of COPD patients to e-cigarette vape - a double-blinded exposure chamber study**
Jakob Benskje (Hjörtingshøj, Denmark), Karin Rosenkilde Laursen, Merete Bilde, Marianne Glasius, Elisabeth Bendstrup, Peter Ravn, Vivi Schlüssen, Soren K Jørgaard, Torben Sigsgaard
Acute changes in PFT's in asthma patients after the use of e-cigarette
Serafim Chrysovalantis Kotoulas (Θεσσαλονίκη, Greece), Despoina Papakosta, Dionysios Spyراتos, Evangelia Fouka, Aikaterini Markopoulou, Konstantinos Porpodis, Evangelia Panagiotidou, Evangelos Chatzopoulos, Theodoros Kontakiotis, Paraskevi Argyropoulou, Athanasia Patsika

Effects of electronic cigarette aerosol on isolated murine lung cells and bronchoalveolar lavage fluid
Elsa Tadele Roxlau (Munich, Germany), Alexandra Pichl, Balachandar Selvakumar, Ralph T. Schermuly, Hossein A. Ghofrani, Werner Seeger, Werner Seeger, Jochen Wilhelm, Mirja Fassbender, Friedrich Grimminger, Susanne Herold, Natascha Sommer, Norbert Weissmann

Acute effects of e-cigarette inhalation with or without nicotine on levels of microvesicles in the blood of human volunteers
Magnus Lundbäck (Stockholm, Sweden), Fariborz Mobarrez, Lukasz Antoniewicz, Jenny Bosson Damewood

ROLE OF E-CIGARETTES IN THE SMOKING CESSATION
Kostiantyn Dmytryev (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov

Effects of heat-not-burn tobacco on health are different from conventional cigarette
Shin-ichi Hagiwara (Hagamachi, Japan)

Nicotine influence on hemocoagulation system
Anna Bulanova (Tomsk, Russian Federation), Ekaterina Bukreeva, Ivan Tyutrin

Can heat-not-burn tobacco be "non-burn" and "smokeless"? Efthimios Zervas (Patra, Greece), Paraskevi Katsaounou

Lessons from systematic analysis of scientific publications on heated tobacco
Bertrand Dautzenberg (Paris, France), Marie-Dominique Dautzenberg

World scientific production of tobacco and smoking
Efthimios Zervas (Patra, Greece), Konstantinos Konstantopoulos, Paraskevi Katsaounou

Meta-analysis on the Effect of Current Smoking on the Risk of Developing Community Acquired Pneumonia
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Rachael Murray, Abby Hunter, John Britton, Wei Shen Lim, Tricia Mckeever

Systematic Review on the Effect of Current Smoking on the Risk of Influenza
Hannah Lawrence (Nottingham (Nottinghamshire), United Kingdom), Abby Hunter, Rachael Murray, Wei Shen Lim, Tricia Mckeever

Spirometry to motivate smoking cessation - a systematic review
Elisabeth Westerdahl (Örebro, Sweden), Mats Arne, Mats Larsson, Kjell Ola Engman

Spirometric lung age (SLA) norms: a review
Mouna Ben Khelifa (sousse, Tunisia), Halima Ben Salem, Souheil Chatti, Sonia Rouatbi, Helmi Ben Saad

Feasibility of uniportal VATS anatomic segmentectomy in the treatment of complex pulmonary tuberculosis
Eugene Shepichev (Saint Petersburg, Russian Federation), Armen Avetisyan, Grigorii Kudriashov, Igor Vasilyev, Ilya Serezvin, Makhmud Mortada, Piotr Yablonskii

Plastic surgery of extensive defects of the anterior wall of the trachea after laryngo-tracheostomy.
Rustem Hayaliev (Tashkent, Uzbekistan), Shuhrat Khuddybergenov, Otabek Eshonkhodjaev

Intravenous laser blood irradiation in preoperative preparation for patients with XDR tuberculosis
Vilayat Aliyev (Moscow, Russian Federation), Mamed Bagirov, Sverlana Sadovnikova, Elena Krasnikova, Dmitry Prokhodtsov

Cytoreductive operations in complex treatment for lung metastases of colorectal cancer.
Aleksey Reshetov (St. Petersburg, Russian Federation), Aleksey Elkin, Vasily Klimenko, German Nikolaev, Dmitry Ermakov
PA1740 Multidisciplinary approach in the diagnosis of Idiopathic Pulmonary Fibrosis: role of transbronchial lung cryobiopsy and surgical biopsy on a cohort of 153 patients.
Stefano Sanna (forli, Italy), Sara Tomassetti, Desideria Argnani, Marta Mengozzi, Claudia Ravaglia, Anna Mariantonia Parisi, Jury Brandolini, Venerino Pozetti, Maurizio Salvi

PA1741 Up-to-day approaches in the surgical treatment of post-pneumonectomy empyema
Anatoli Semkov (Sofia, Bulgaria), Georgi Yankov, Mihail Plochev, Danail Petrov

PA1742 Analysis of the solitary pulmonary nodule after surgical resection in patients using 18F-FDG integrated PET-CT scan at preoperative work-up.

PA1743 Synchronous primary lung cancers: a clinical challenge in modern thoracic oncology
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Aggeliki Mpairaktari, Gerasimos Aravantinos, Nikolaos Anastasiou

PA1744 Segmentectomies with minimal invasive surgery
Sinna Mine Kara Apaydin (Ankara, Turkey), Funda Incekara, Koray Aydogdu, Sevki Mustafa Demiroz, Gokturk Fındık

PA1745 Should we take the biopsy during EBUS staging in group 2r,2L?
Igor Vasiliev (St. Petersburg, Russian Federation), Andrey Skorochodh, Ivan Zaitcev, Piotr Yablonskii

PA1746 Minimally invasive lobectomy for localized single-sided pulmonary tuberculosis: preliminary results of one-year follow-up
Grigorii Kudriashov (St. Petersburg, Russian Federation), Ekaterina Davydenkova, Sultan Gasanmagomedov, Igor Vasiliev, Armen Avetisyan, Piotr Yablonskii

PA1747 Pneumostomy: an operative proposal - pilot study
André Miotto (São Paulo (SP), Brazil), Julio Mott Ancona Lopez, Roberto Saad Jr, Vicente Dorgan Neto, Marcio Botter, Camila Bertini Martins, Jorge Henrique Rivaben

PA1748 An audit review of safety and complication rates, of rigid bronchoscopy and large airways intervention, in a London tertiary centre
Kavina Manalan (London, United Kingdom), Kate Ryan, Hussain Basheer, Agnieszka Crear-Gilbert, Brendan Madden

PA1749 Effect of Vitamin C and vitamin E on Lung Contusion: a cohort, prospective Randomized Clinical Trial study
Abdoullhossein Davoodabadi (Kashan, Islamic Republic of Iran)

PA1750 Retrospective analysis of 192 patients with pulmonary metastasectomy: a 12-year singlecenter experience.
Yury Ragulin (Obninsk (Kaluga Oblast), Russian Federation), Evgeny Smolenov, Vladimir Usachev

PA1751 Significance of systemic lymph node dissection in the treatment of typical bronchial carcinoid tumors: a critical review of endobronchial treatment
Yusuf Kahya (Ankara, Turkey), Mehmet Ali Sakalli, Bülent Mustafa Yenigün, Cabir Yüksel, Serkan Enön, Ayten Kayı Cangur

PA1752 Airway management in tracheal resection for postintubation stenotic lesions
Igor Medvinsky (Yekaterinburg (Sverdlovsk), Russian Federation), Igor Motus, Alexander Bazhenov, Dmitriy Ereimeev, Sergey Skornyakov, Anna Tsvirenko

PA1753 How much prevention of postoperative recurrence by staple-line reinforcement on thoracoscopic blebectomy for spontaneous pneumothorax?
Masao Naruke (Tokyo, Japan)

7.3J Session 184 14:45 - 16:45
Poster discussion: Lung cancer: from early diagnosis to modern monitoring strategies

Disease(s) : Airway diseases  Thoracic oncology  Interstitial lung diseases  Pulmonary vascular diseases
Method(s) : Endoscopy and interventional pulmonology  Cell and molecular biology  Epidemiology  Public health  General respiratory Imaging
Chairs : Jan van Meerbeeck (Edegem (Antwerp), Belgium), Agata Raniszewska (Warszawa, Poland)

PA1754 Commuting in Los Angeles: lung cancer health risks of roadway, light-rail and subway transit routes
Constantinos Sioutas (Los Angeles, United States of America), Christopher Lovett, Farimah Shirmohammadi, Mohammad H. Sowlat
Genetic susceptibility, residential radon an lung cancer risk in never smokers. Results from the LCRINS Study

Novel non invasive early detection of lung cancer using liquid immunobiopsy metabolic activity profiles.
Yochai Adir (Haifa, Israel), Shoval Tirman, Eyal Davidovits Davidovits, Irit Arbel, Giora Davidovits, Sonia Schneer, Michal Shteinberg, Fernando Patolsky.

Liquid biopsy for EGFR mutations in non-small cell lung cancer cases by RT-PCR
Altug Koc (Izmir, Turkey), Tuney Goksel, Berna Komurcuoglu, Ozge Ozer Kaya, Berk Ozyilmaz, Pinar Gursoy, Yasar B. Kuthay, Ozgur Kirbiyik, Taha Resid Ozdemir, Kadri Murat Erdogan, Merve Saka Guvenc, Gizem Calibasi Kocal, Yasemine Baskin.

The use of electronic nose technology for the detection of Lung Cancer (LC): analysis of exhaled volatile compounds by Aeonose®
Ekaterina Krauss (Giessen, Germany), Jana Zoelitz, Jasmin Wagner, Guillermo Barretto, Maria Degen, Werner Seeger, Andreas Guenther.

Breath analysis by ion mobility spectrometry allows to discriminate COPD from lung cancer patients.
Elke Janssens (Kontich, Belgium), Kevin Lamote, Jan Van Meerbeeck, Lisa Brusselmans.

Early detection of lung cancer in patients with COPD by eNose technology

Detecting subtypes of non-small cell lung cancer by electronic nose.
Sharina Kort (Enschede, Netherlands), Mayke Tiggeloven, Marjolein Brusse-Keizer, Hugo Schouwink, Frans De Jongh, Emanuel Citgez, Jan Willem Gerritsen, Job Van Der Palen.

Detection of small cell lung cancer by electronic nose.
Sharina Kort (Enschede, Netherlands), Marjolein Brusse-Keizer, Hugo Schouwink, Frans De Jongh, Emanuel Citgez, Jan Willem Gerritsen, Job Van Der Palen.

Simultaneously detected nodules in lung cancers
Seda Beyhan Sagmen (Istanbul, Turkey), Coskun Dogan, Nesrin Kiral, Elif Torun Parmaksiz, Omer Zengin, Ali Fidan, Sevda Sener Comert.

Preliminary results of a french pilot trial of lung cancer screening by low dose CT scan in the department of the Somme (DKP80).
Olivier Leleu (Abbeville Cedex, France), Estelle Huguet, Caroline Clarot, Mickael Baud, Elodie Barras, Valerie Petigny, Nicolas Benoit, Marianne Auquier, Bruno Chauffert, Pascal Berna, Vincent Jouinieux.

Willingness to participate in lung cancer screening program according to USPSTF guidelines recommendations
Narjes Zarei jalalabadi (Tehran, Islamic Republic of Iran), Enayat Safavi, Soheil Peyman.

Chest CT reporting with nodule-tinted spectacles;does it affect nodule/lung cancer services?
Deny Tsakri (Plovdiv, Bulgaria), Nefeli-Ioanna Paizi, Georgia Hardavella.

‘E-Noting Nodulomics’: Automating Electronic Clinical Data Mining and Analysis of Pulmonary Nodules Using a Python Algorithm
Richard Lee (London, United Kingdom), Rory Morrice, Georgia Hardavella.

Automated Python Algorithm Analysis of Benign Pulmonary Nodules Discharged after 2 years Surveillance
Richard Lee (London, United Kingdom), Rory Morrice, Sa Tran, Georgia Hardavella.

Recommendation of proper follow-up for peripheral pulmonary lesions with non-malignant result by bronchoscopy
Masahiro Higashiyama (Tokyo, Japan), Yuji Matsumoto, Toshiyuki Nakai, Midori Tanaka, Takaaki Tsuchida.

Improved overall survival after late recurrence of lung cancer following the introduction of CT-based follow-up for patients treated with curative intent
Niels-Chr. G. Hansen (Odense C, Denmark), Stefan S. Jeppesen, Christian B. Laursen, Erik Jakobsen.

7.1A Session 188  17:00 - 18:00
Assembly members' meeting: Assembly 9 Allied respiratory professionals
Chairs: Irene Steenbruggen (Zwolle, Netherlands), Martijn A. Spruit (Horn, Netherlands)
<table>
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<tbody>
<tr>
<td>17:15-19:15</td>
<td>INDUSTRY EVENING SYMPOSIUM</td>
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<td>17:30-19:00</td>
<td>INDUSTRY EVENING MINI SYMPOSIUM</td>
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SEE PAGE 1
7.3T Session 208 08:00 - 10:20

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW7 Cardiopulmonary exercise test interpretation - tips and pitfalls FULLY BOOKED

Aims: Access educational materials here to identify “typical” patterns of response to cardiopulmonary exercise testing and to show how to discriminate these from “anomalous” response profiles that can cause misinterpretation of test results.

Disease(s): Sleep and breathing disorders

Method(s): Physiology  Pulmonary function testing

Tag(s): Clinical

Target audience: Clinical researcher, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician

Chairs: Pierantonio Laveneziana (Paris Cedex 13, France)

Introduction 1883

Relationship between oxygen uptake and work rate
Richard Casaburi (Rancho Palos Verdes, United States of America) 1884

Anaerobic/lactate threshold
Susan Ward (Crickhowell, United Kingdom) 1885

Breathing pattern and dynamic hyperinflation
Pierantonio Laveneziana (Paris Cedex 13, France) 1886

Ventilatory efficiency
J. Alberto Neder (Kingston (ON), Canada) 1887

7.3T Session 235 10:40 - 13:00

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW8 Cardiopulmonary exercise test interpretation - tips and pitfalls FULLY BOOKED

Aims: Access educational materials here to identify “typical” patterns of response to cardiopulmonary exercise testing and to show how to discriminate these from “anomalous” response profiles that can cause misinterpretation of test results.

Disease(s): Sleep and breathing disorders

Method(s): Physiology  Pulmonary function testing

Tag(s): Clinical

Target audience: Clinical researcher, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician

Chairs: Pierantonio Laveneziana (Paris Cedex 13, France)

Introduction 2083

Relationship between oxygen uptake and work rate
Paolo Palange (Rome, Italy) 2084

Anaerobic/lactate threshold
Harry Rossiter (Hermosa Beach, United States of America) 2085

Breathing pattern and dynamic hyperinflation
Denis O'Donnell (Kingston (ON), Canada) 2086

Ventilatory efficiency
Paolo Onorati (Alghero (SS), Italy) 2087

7.3T Session 330 14:30 - 16:50

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW9 Cardiopulmonary exercise test interpretation - tips and pitfalls FULLY BOOKED

Aims: Access educational materials here to identify “typical” patterns of response to cardiopulmonary exercise testing and to show how to discriminate these from “anomalous” response profiles that can cause misinterpretation of test results.
Disease(s) : Sleep and breathing disorders
Method(s) : Physiology  Pulmonary function testing
Tag(s) : Clinical
Target audience : Clinical researcher, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician
Chairs : Susan Ward (Crickhowell, United Kingdom)

### Session 209  08:00 - 10:20

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

**Skills workshop: SW10 Thoracic ultrasound FULLY BOOKED**

**Aims :** Access educational materials here to provide an update on thoracic ultrasound knowledge and an opportunity to practise basic hands-on skills using training models, simulators, volunteers and patients.

Disease(s) : Thoracic oncology
Method(s) : Imaging
Tag(s) : Clinical
Target audience : Radiologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs : Najib M. Rahman (Oxford, United Kingdom)

<table>
<thead>
<tr>
<th>Introduction</th>
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<tr>
<td>Relationship between oxygen uptake and work rate</td>
<td>3225</td>
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<tr>
<td>Richard Casaburi (Rancho Palos Verdes, United States of America)</td>
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<tr>
<td>Anaerobic/lactate threshold</td>
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<td>Harry Rossiter (Hermosa Beach, United States of America)</td>
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<td>Breathing pattern and dynamic hyperinflation</td>
<td>3227</td>
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<td>Denis O'Donnell (Kingston (ON), Canada)</td>
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<td>Ventilatory efficiency</td>
<td>3228</td>
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<tr>
<td>Paolo Onorati (Alghero (SS), Italy)</td>
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### Session 236  10:40 - 13:00

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

**Skills workshop: SW11 Thoracic ultrasound FULLY BOOKED**

**Aims :** Access educational materials here to provide an update on thoracic ultrasound knowledge and an opportunity to practise basic hands-on skills using training models, simulators, volunteers and patients.

Disease(s) : Thoracic oncology
Method(s) : Imaging
Tag(s) : Clinical
Target audience : Radiologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs : Najib M. Rahman (Oxford, United Kingdom)

<table>
<thead>
<tr>
<th>Introduction</th>
<th>1888</th>
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<tbody>
<tr>
<td>Normal thoracic cavity</td>
<td>1889</td>
</tr>
<tr>
<td>Christian B. Laursen (Odense, Denmark), Sophie Laroumagne Dumetre (Marseille, France)</td>
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<tr>
<td>Pleural effusion and/or pleural thickening</td>
<td>1890</td>
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<tr>
<td>Horiana Grosu (Houston, United States of America), Gilles Mangiapan (Creteil, France)</td>
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<td>Case studies</td>
<td>1891</td>
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<tr>
<td>John Wrightson (Oxford, United Kingdom)</td>
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<tr>
<td>Guided pleural aspiration and lymph node biopsy using models</td>
<td>1892</td>
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<tr>
<td>Rahul Bhattacharjee (Bristol, United Kingdom), Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom)</td>
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### 7.3V  12.09.2018

**ERS 2018 International Congress**

**DETAILED PROGRAMME**

**MONDAY 17 SEPTEMBER, 2018**
**Pleural effusion and/or pleural thickening**  
Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom), Sophie Laroumagne Dumetre (Marseille, France)  

**Case studies**  
Najib M. Rahman (Oxford, United Kingdom)  

**Guided pleural aspiration and lymph node biopsy using models**  
Rahul Bhatnagar (Bristol, United Kingdom), Anna Bibby (Bristol (Avon), United Kingdom)  

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**7.3V Session 331 14:30 - 16:50**

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

**Skills workshop: SW12 Thoracic ultrasound FULLY BOOKED**

**Aims:** Access educational materials here to provide an update on thoracic ultrasound knowledge and an opportunity to practise basic hands-on skills using training models, simulators, volunteers and patients.

**Disease(s):** Thoracic oncology

**Method(s):** Imaging

**Tag(s):** Clinical

**Target audience:** Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician, Trainee

**Chairs:** Nick Maskell (Bristol (Avon), United Kingdom)

**Introduction**

**Normal thoracic cavity**
Christian B. Laursen (Odense, Denmark), Horiana Grosu (Houston, United States of America)

**Pleural effusion and/or pleural thickening**
Gilles Mangiapan (Creteil, France), Anna Bibby (Bristol (Avon), United Kingdom)

**Case studies**
John Wrightson (Oxford, United Kingdom)

**Guided pleural aspiration and lymph node biopsy using models**
Konstantina Kontogianni (Heidelberg, Germany), Nick Maskell (Bristol (Avon), United Kingdom)

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**7.3U Session 257 11:00 - 13:00**

Registration for this session is additional to the congress registration fee and is €49 on site, €43 standard.

**Professional development: PDW5 Teamability: become an effective team leader and member**

**Aims:** Access educational materials here Participants will increase their ability to identify characteristics of effective and ineffective teams, team leaders and team members; to identify their own and others’ style of team interaction and how to bridge across styles; to utilise skills in relationship building, managing differences and building trust and collaboration; and to collaboratively lead and participate in healthcare teams.

**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care Imaging, Physiology, Public health, Pulmonary function testing, Respiratory intensive care, Surgery, Transplantation

**Target audience:** Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Louellen N. Essex (Wayzata, United States of America), Gernot G.U. Rohde (Frankfurt am Main, Germany)

**What makes a healthcare team effective?**
Louellen N. Essex (Wayzata, United States of America)

**Stages of team development: how to lead and participate effectively**
Louellen N. Essex (Wayzata, United States of America)

**Question and answer session**
Louellen N. Essex (Wayzata, United States of America)

**Action planning: how to apply what has been learned**
Louellen N. Essex (Wayzata, United States of America)
7.3U  Session 332  14:30 - 17:00

Professional development: PDW6 Supporting patients with behaviour change strategies
Engagement of patients in healthy behaviours

Aims: Access educational materials here To improve the competence and performance of clinicians by promoting their active learning of empathic communication and motivational interviewing and by helping them to develop strategies to incorporate these techniques into patient care. This interactive learning activity will focus on how to effectively counsel patients to improve their overall lifestyle, including their diet, exercise and alcohol and tobacco use. Specific aims are as follows: to increase knowledge about empathic listening and motivational interviewing strategies and resources; to increase skills in using empathic listening and motivational interviewing strategies; and to increase the application of empathic listening and motivational strategies and resources.

Disease(s): Airway diseases  Sleep and breathing disorders
Method(s): General respiratory patient care
Tag(s): Clinical

Target audience: Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiotherapist, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Sofia Belo Ravara (Covilhã, Portugal)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
<th>Reference</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction: why do we need to incorporate health behaviour change into clinical practice?</td>
<td>Sofia Belo Ravara (Covilhã, Portugal)</td>
<td>3234</td>
</tr>
<tr>
<td>14:45</td>
<td>Why empathy is important and how we can incorporate it into clinical practice</td>
<td>Timothy Milbrandt (Rochester, United States of America), Therese Shumaker (Rochester, United States of America)</td>
<td>3235</td>
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<tr>
<td>15:05</td>
<td>Using motivational interviewing in clinical practice to engage patients about health behaviour change</td>
<td>Timothy Milbrandt (Rochester, United States of America), Therese Shumaker (Rochester, United States of America)</td>
<td>3236</td>
</tr>
<tr>
<td>15:35</td>
<td>Exploring and enhancing motivation to quit smoking in smokers who are reluctant to quit</td>
<td>Therese Shumaker (Rochester, United States of America), Timothy Milbrandt (Rochester, United States of America)</td>
<td>3237</td>
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<tr>
<td>16:05</td>
<td>Exploring and enhancing motivation to reduce alcohol consumption and weight</td>
<td>Therese Shumaker (Rochester, United States of America), Timothy Milbrandt (Rochester, United States of America)</td>
<td>3238</td>
</tr>
<tr>
<td>16:35</td>
<td>Discussion and conclusion</td>
<td>Sofia Belo Ravara (Covilhã, Portugal), Therese Shumaker (Rochester, United States of America), Timothy Milbrandt (Rochester, United States of America)</td>
<td>3239</td>
</tr>
</tbody>
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7.3I  Session 319  13:00 - 14:00

Meet the expert: ME5 Lung cancer screening
Where we are and how to implement

Aims: Access educational materials here to provide clear guidance on whom to screen and how to follow up, and to discuss different scenarios based on actual evidence while considering both pros and cons.

Disease(s): Thoracic oncology
Method(s): Endoscopy and interventional pulmonology  Imaging  Surgery
Tag(s): Clinical

Target audience: Critical/Intensive care physician, General practitioner, Nurse, Radiologist, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
<th>Reference</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Lung cancer screening - where we are and how to implement it</td>
<td>Hans-Ulrich Kauczor (Heidelberg, Germany), Jan van Meerbeeck (Edegem (Antwerp), Belgium)</td>
<td>3193</td>
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7.3F  Session 318  13:00 - 14:00

Meet the expert: ME6 Control of breathing - hypoventilation during sleep, exercise and dyspnoea
Ondine’s curse syndrome

FULLY BOOKED
Aims: Access educational materials here to shed light on the poorly understood relationship between sleep-related life-threatening hypoventilation and its potential clinical consequences (e.g., dyspnoea); and to discuss pharmacological and non-pharmacological approaches that can modify this relationship both from a physiological point of view (the ventilatory response to hypercapnia and hypoxia) and a clinical point of view (improvement of dyspnoea and quality of life).

Disease(s): Sleep and breathing disorders
Method(s): Physiology, Pulmonary function testing
Tag(s): Translational
Target audience: Clinical researcher, Lung function technologist, Physiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician
Chairs: Esther Irene Schwarz (Zürich, Switzerland)

13:00 Control of breathing - hypoventilation during sleep, exercise and dyspnoea
Christian Straus (Paris, France)

7.2D Session 315 13:00 - 14:00
Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME7 Monitoring of home mechanical ventilation in neuromuscular disorders

Aims: Access educational materials here to present and discuss new criteria that are used to define nocturnal hypoventilation and effective ventilation for neuromuscular disorders.

Disease(s): Respiratory critical care, Sleep and breathing disorders
Method(s): General respiratory patient care, Pulmonary function testing, Respiratory intensive care
Tag(s): Clinical
Target audience: Lung function technologist, Nurse, Physiotherapist, Adult pulmonologist/Clinician
Chairs: Marieke L. Duiverman (Groningen, Netherlands)

13:00 Monitoring of home mechanical ventilation in neuromuscular disorders
David Orlikowski (Garches, France)

7.3E Session 317 13:00 - 14:00
Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME8 Diagnosing bronchiectasis and cystic fibrosis

Aims: Access educational materials here to show how to suspect and diagnose bronchiectasis by distinguishing between cystic fibrosis and bronchiectasis due to other causes while taking into consideration practical limitations (availability of diagnostic tests), level of care and patient preferences.

Disease(s): Respiratory infections, Paediatric respiratory diseases
Method(s): General respiratory patient care, Imaging
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Paediatrician, Patient, Physiotherapist, Radiologist, Trainee, Adult pulmonologist/Clinician
Chairs: Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain)

13:00 Diagnosing bronchiectasis and cystic fibrosis
Stefano Aliberti (Milan, Italy)

7.3U Session 324 13:15 - 14:15
Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME14 Bronchiolitis obliterans syndrome in immunodepressed patients

Aims: Access educational materials here to highlight the epidemiology of bronchiolitis obliterans syndrome of immunocompromised patients and to discuss the diagnostic and management challenges.

Disease(s): Airway diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Physiologist, Radiologist, Student, Trainee
Chairs: Davide Piloni (Pavia, Italy)

13:15 Bronchiolitis obliterans syndrome in immunodepressed patients
Anne Bergeron Lafaurie (Paris, France)
Challenging clinical cases: CC3 Lung cancer: personalised treatment and palliative care

Aims: Access educational materials here. To describe a sophisticated treatment for small cell lung cancer and how to integrate palliative care into routine lung cancer care. Both approaches may be suitable for larger patient cohorts.

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology, General respiratory patient care, Imaging
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs: Dragana M. Jovanović (Beograd, Republic of Serbia)

Managing the initial treatment and multiple relapses in a small cell lung cancer patient with limited disease
Jair Bar (Tel-Aviv, Israel)

Integration of palliative care from the very beginning to the very end in a patient with metastasised non-small cell lung cancer
Matthias Villalobos (Heidelberg, Germany)

Challenging clinical cases: CC4 Tuberculosis

Drawing from the experience of the ERS/WHO TB Concilium

Aims: Access educational materials here. To increase awareness and knowledge of tuberculosis through discussion of challenging cases, including diagnosis, treatment of tuberculosis and co-morbidities in adults and children with a patient centred approach. To allow participants to have their say on selected cases through electronic voting on multiple choice questions.

Disease(s): Paediatric respiratory diseases, Respiratory infections
Method(s): Public health
Tag(s): Clinical
Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Nurse, Paediatrician, Pathologist, Patient, Physiotherapist, Policy maker, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Raquel Duarte (Porto, Portugal)

Design of tuberculosis treatment regimens for drug-resistant and intolerant patients – patient and clinician perspectives
Simon Tiberi (London, United Kingdom)

Managing adult and children XDR-TB cases with limited clinical options
Adrian Rendon (Monterrey, Mexico)

Disseminated multiorgan tuberculosis
Ana-Marija Sola (Zagreb, Croatia)

Misleading Tuberculosis Cases
Atalay Şahin (Diyarbakir, Turkey)

Disseminated tuberculosis in an immunocompetent patient: when the diagnosis is right under the nose
João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal)

Challenging clinical cases: CC5 Pulmonary vasculitis: the great chameleon

Aims: Access educational materials here. In this session, complex cases of ANCA associated vasculitis will be presented and discussed in an interactive fashion. These cases were clinically very difficult, and the session will describe how the diagnosis was made, the radiological and pathological patterns in the case, and the pathogenetic mechanisms that were identified. Brief discussion of treatment options will be presented. The aim is to increase knowledge about the modalities that were used to build up the clinical reasoning and the biological mechanisms that may connect different disorders.
**Session 210 08:30 - 10:30**

**Grand round: Paediatric Grand Round**

**Aims:** To present paediatric cases with respiratory problems and typical and difficult questions. The audience will be engaged in discussions about the best clinical care and will receive an update on paediatric respiratory medicine.

**Disease(s):** Paediatric respiratory diseases

**Method(s):** Endoscopy and interventional pulmonology  General respiratory patient care  Imaging  Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Bart L. Rottier (Groningen, Netherlands), Monika Gappa (Wesel, Germany)

- **08:30** *A 14-year-old girl with breathlessness*
  Theofilos Polychronakis (Cambridge (Cambridgeshire), United Kingdom)

- **09:00** *A 12-year-old boy with therapy-resistant asthma*
  Eva Ter Haar (Wilsele, Belgium)

- **09:30** *A 6-month-old boy with poor growth and tachypnoea*
  Ignacio Iglesias-Serrano (Barcelona, Spain)

- **10:00** *A 6-day-old girl with tachypnoea and cyanosis*
  Kamal Masarweh (Israel)

**Session 211 08:30 - 10:30**

**Symposium: State of the art session: Thoracic oncology**

**Aims:** The 2018 lung cancer state of the art session will provide new perspectives on issues in lung cancer that remain unsolved. The session will start with a profound review of recent findings about tumour biology and then present a comprehensive update on multimodal strategies in three prognosis-determining treatment areas.

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Public health  Surgery  Transplantation

**Tag(s):** Translational

**Target audience:** Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Giulia Maria Stella (Pavia (PV), Italy), Dimitri Leduc (Bruxelles, Belgium)

- **08:30** *The latest in lung cancer tumour biology*
  Céline Mascaux (Marseille, France)

- **09:00** *Lung cancer and interstitial lung disease*
  Jacques Cadranel (Paris Cedex 20, France)
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<td>09:25</td>
<td>Multimodal management of brain metastases in lung cancer</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
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<td>09:50</td>
<td>Rational approaches to pleural malignancies</td>
<td>Jan van Meerbeeck (Edegem (Antwerp), Belgium)</td>
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<td>10:15</td>
<td>ERS statement on harmonised standards for lung cancer registration and lung cancer services in Europe</td>
<td>Anna Rich (Nottingham (Nottinghamshire), United Kingdom)</td>
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<td>1901</td>
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</tbody>
</table>

### Session 212 08:30 - 10:30

**Year in review: Therapeutic breakthroughs**

**Tag(s):** Clinical

**Chairs:** Eva Van Braeckel (Ghent, Belgium), Raffaele Scala (Arezzo, Italy), Matteo Bonini (London, United Kingdom)

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>08:30</td>
<td>High-flow nasal therapy in acute and chronic respiratory failure</td>
<td>Alexandre Demoule (Paris, France)</td>
<td></td>
<td>1902</td>
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<tr>
<td>09:00</td>
<td>Tezacaftor-ivacaftor for the treatment of cystic fibrosis: what’s next?</td>
<td>Jane C. Davies (London, United Kingdom)</td>
<td></td>
<td>1903</td>
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<tr>
<td>09:30</td>
<td>Breathing training and inspiratory muscle training: a go or no go for patients with dyspnoea?</td>
<td>Daniel Langer (Leuven, Belgium)</td>
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<td>1904</td>
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<tr>
<td>10:00</td>
<td>Pleural disease (with a focus on malignant pleural disease)</td>
<td>Nick Maskell (Bristol (Avon), United Kingdom)</td>
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<td>1905</td>
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### Session 213 08:30 - 10:30

**Symposium: New trends in the management of difficult-to-wean patients**

**Multidisciplinary approach**

**Aims:** to discuss new trends in the multidisciplinary approach to patients with chronic critical illnesses.

**Disease(s):** Respiratory critical care

**Method(s):** Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Nurse, Physiotherapist, Adult pulmonologist/Clinician

**Chairs:** João Carlos Winck (Vila Nova de Gaia, Portugal), Lise Piquilloud (Lausanne, Switzerland)

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<tr>
<th>Time</th>
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<tr>
<td>08:30</td>
<td>Prolonged mechanical ventilation - definitions and outcome</td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
<td></td>
<td>1906</td>
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<tr>
<td>09:00</td>
<td>Why can my patient not be weaned from the ventilator?</td>
<td>Leo M.A. Heunks (Amsterdam, Netherlands)</td>
<td></td>
<td>1907</td>
</tr>
<tr>
<td>09:30</td>
<td>Evaluation of swallowing dysfunction and treatment with Passy-Muir valve</td>
<td>Christina Iezzi (London, United Kingdom)</td>
<td></td>
<td>1908</td>
</tr>
<tr>
<td>10:00</td>
<td>Challenges associated with whole body rehabilitation in difficult-to-wean patients</td>
<td>Michele Vitacca (Gussago (BS), Italy)</td>
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<td>1909</td>
</tr>
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### Session 214 08:30 - 10:30

**Symposium: Sleep apnoea: is it time for new therapies?**

**Aims:** to describe new treatment alternatives to continuous positive airway pressure. New pathophysiological phenotyping studies of upper airway function in obstructive sleep apnoea (OSA) have opened the way to new treatment strategies. This session will examine these new possibilities and thereby provide an overview on the current and future developments in the treatment of OSA.

**Disease(s):** Sleep and breathing disorders

**Method(s):** Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Physiologist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Renata L. Riha (Edinburgh (Edinburgh), United Kingdom), Anita Simonds (London, United Kingdom)
08:30 The physiological phenotypes of OSA - the PALM scale approach
Danny Eckert (Randwick (NSW), Australia)

09:00 Can we use drugs to modulate upper airway function in OSA?
Luigi Taranto Montemurro (Boston, United States of America)

09:30 Hypoglossal nerve stimulation
Olivier M. Vanderveken (Edegem (Antwerp), Belgium)

10:00 Mandibular advancement devices - short- and long-term effects
Marie Marklund (Umea, Sweden)

7.3Z1 Session 215 08:30 - 10:30

Symposium: Rare lung diseases
Joint ERN-LUNG/ERS symposium

Aims: The ERN-LUNG and the ERS have joined forces to fight rare diseases of the respiratory system. The aim of this joint session is to increase awareness of rare diseases of the respiratory system and to demonstrate the support that the ERN-LUNG can provide in rare lung diseases with respect to clinical care and research, cross-border advice to patients and care team members, cross-border consultations and cross-border referral.

Disease(s): Interstitial lung diseases Pulmonary vascular diseases

Method(s): General respiratory patient care Public health Transplantation

Tag(s): Clinical

Target audience: General practitioner, Nurse, Paediatrician, Patient, Physiotherapist, Policy maker, Scientist (basic, translational), Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Guy Brusselle (Ghent, Belgium), Marc Humbert (Paris, France)

08:30 Lung transplantation in rare lung diseases: the problem of chronic lung allograft dysfunction (CLAD)
Tobias Welte (Hannover, Germany)

09:00 What do patients expect from ERN-LUNG?
Gergely Meszaros (Budapest, Hungary)

09:30 From childhood to adulthood: growing up with a rare lung disease such as cystic fibrosis
Cornelis Kors van der Ent (Utrecht, Netherlands)

10:00 Rare diseases registries such as the Rare Lung Disease Registry Data Warehouse
Holger Storf (Frankfurt, Germany)

7.3B Session 216 08:30 - 10:30

Oral presentation: New modalities in asthma treatment

Disease(s): Airway diseases

Method(s): Endoscopy and interventional pulmonology General respiratory patient care Cell and molecular biology

Chairs: Mohankumar Thekkinkattil (Coimbatore (Tamil Nadu), India), Tiziana Patrizia Cremona (Bern, Switzerland)

OA1918 Evaluation in a severe asthma expert center improves asthma outcomes.
Camille Begne (Perigueux, France), Aurélien Justet, Laure Tabèze, Clairelyne Dupin, Catherine Neukirch, Raphaël Borie, Marie-Christine Dombret, Bruno Crestani, Camille Taillé

OA1919 Increased sputum FKBP51 gene expression following Azithromycin add-on therapy in asthma
Jodie Simpson (New Lambton, Australia), Stephany Sanchez-Ovando, Heather Powell, Kavita Pabreja, Ian Yang, John Upham, Paul Reynolds, Sandra Hodge, Alan James, Christine Jenkins, Matthew Peters, Guy Marks, Melissa Baraket, Peter Gibson

OA1920 Unbiased clinical cluster analysis of patients of ProAR Asthma Cohort.
Alvaro A. Cruz (Salvador (BA), Brazil), Aruna T. Bansal , Eduardo V. Ponte, Ademir Souza-Machado, Paula C. Almeida, Valmar Biao-Lima, Stewart Bates, John H. Riley
Bronchial Thermoplasty Global Registry: One Year Results
Alfons Torrego Fernandez (Barcelona, Spain), Felix Herth, Ana M Munoz, Luis Puente, Nicola Facciolongo, Stephen Bicknell, Mauro Novali, Stefano Gasparini, Martina Bonifazi, Keertan Dheda, Felipe Andreo, Jiří Votruba, David Langton, Javier Flandes, David Fielding, P. I. Bonta, Dirk Skowasch, Alvin Ing, Christian Schulz, Kaid Darwiche, Edmund McMullen, Fran Nolan, Robert Niven, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Martin Iversen (martin@iversen-net.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet, Copenhagen), Johan Malmsstroem (johan.malmsstrom@med.lu.se / Division of Infection Medicine, Department of Clinical Sciences Lund, Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science, Lund University, Lund)

SURFACTANT THERAPY IN PATIENTS WITH Severe Uncontrolled Bronchial Asthma
Ekaterina Kozlova (Chita, Russian Federation), Alena Akulova, Olga Stepanova, Konstantin Shapovalov, Sergey Lukyanov, Oleg Rosenberg.

Cell type specific heat-shock-protein responses to bronchial thermoplasty in severe asthma treatment
Lei Fang (Basel, Switzerland), Lei Fang, Michael Tamm, Michael Roth, Daiana Stolz

Session 217 08:30 - 10:30
Hot topics: Pulmonary embolism: what we need to know

Aims: Aims: At the end of the session, attendees will be able to: (i) risk stratify patients with acute symptomatic pulmonary embolism (PE); (ii) identify patients with low-risk PE who might benefit from outpatient therapy; (iii) choose the right direct oral anticoagulant for the right patient with acute symptomatic PE; and (iv) identify patients with intermediate-risk PE who might benefit from early recanalisation procedures.

Disease(s): Pulmonary vascular diseases, Respiratory critical care
Method(s): General respiratory patient care
Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Patient, Student, Adult pulmonologist/Clinician
Chairs: David Jiménez Castro (Madrid, Spain), Marion Delcroix (Leuven, Belgium)

08:30 Helping the pulmonary embolism response team (PERT) determine the severity of PE in triage: guidelines
Olivier Sanchez (Paris, France)

09:00 Initial outpatient management of PE: who and how?
Luke Howard (London, United Kingdom)

09:30 Update on novel anticoagulants: indications, dosing alternatives and outcomes
Cecilia Becattini (Perugia (PG), Italy)

10:00 Advanced therapies for life-threatening PE: low-dose systemic thrombolysis, catheter-directed thrombolysis and extracorporeal membrane oxygenation (ECMO)
Mareike Lankeit (Mainz, Germany)

Session 218 08:30 - 10:30
Symposium: Cross-talk in the lung microenvironment: implications for chronic lung disease

Aims: to summarise the novel findings regarding the cross-talk in the lung microenvironment that were discussed at the ERS Research Seminar (February 2018, Berlin). A mechanistic understanding of the cell-cell and cell-microbe communications in the lung microenvironment will promote the development of novel preventative strategies or therapies for chronic lung disease. Therefore, this symposium will focus on different aspects of the cellular communication mechanisms in the lung that participate in health and disease, including communication via soluble factors and the transfer of extracellular vesicles. The influence of microbial factors on these communication mechanisms will also be discussed.

Disease(s): Airway diseases, Respiratory infections
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Allergist, Clinical researcher, Paediatrician, Scientist (basic, translational), Student, Trainee
Chairs: Sabine Bartel (Borstel, Germany), Reinoud Gosens (Groningen, Netherlands)

08:30 Cellular cross-talk in the airway epithelial mesenchymal trophic unit
Donna E. Davies (Southampton (Hampshire), United Kingdom)
09:00  Gut-lung cross-talk in chronic respiratory disease  
Philip Hansbro (Callaghan, Australia)  

09:30  Early interventions with bacterial metabolites to prevent the development of chronic lung diseases  
Susanne Krauss-Etschmann (Borstel, Germany)  

10:00  Extracellular vesicles and their role in lung homeostasis and disease  
Susanne Gabrielsson (Stockholm, Sweden)  

**Session 219 08:30 - 10:30**

Oral presentation: COPD and chronic respiratory disease: from misclassification to radiological findings

- **Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care
- **Method(s):** Imaging, General respiratory patient care, Epidemiology, Public health
- **Chairs:** Joan B Soriano (Madrid, Spain), Anne Lindberg (Boden, Sweden)

OA1932  Late Breaking Abstract - The effects of smoking cessation and FAM13A gene susceptibility on lung function decline: A 16-year follow-up study among male smokers  
Soriul Kim (Ansan, Republic of Korea), Ki Yeol Lee, Seung Ku Lee, Hyeon Min Ahn, Regina Ey Kim, Chol Shin

OA1933  Beta-blocker, aspirin and statin usage after myocardial infarction in patients with and without COPD. A nationwide analysis from 1995 to 2015 in Denmark  
Daniel Rasmussen (Glumso, Denmark), Uffe Bodtger, Morten Lamberts, Peter Lange, Magnus Jensen

OA1934  Changing causes of mortality for people with chronic respiratory diseases  
Alicia Gayle (London, United Kingdom), Eleanor Axson, Chloe Bloom, Vidya Navaratnam, Jennifer Quint

OA1935  Decrease in prevalence of COPD in Sweden after decades of decrease in smoking  
Helena Backman (Lulea, Sweden), Linda Ekerljung, Berne Eriksson, Caroline Stridsman, Roxana Mincheva, Linnea Hedman, Stig Hagstad, Anne Lindberg, Anders Ullman, Eva Romnak, Bo Lundback

OA1936  Self-reported intake of fruit and vegetables and risk of chronic obstructive pulmonary disease: a nation-wide twin study  
Howraman Menteran (København, Denmark), Simon Francis Thomsen, Martin R Miller, Jacob Hjelmborg, Torben Sigsgaard, Vibke Backer

OA1937  Coagulation markers in COPD  
Gunnar Reksten Husebo (Fana, Norway), Esteban Gabazza, Corina D'Alessandro, Marianne Aanerud, Masaaki Toda, Rune Gronseth, Per S. Bakke, Tomas Mikal Lind Eagan

OA1938  Misdiagnosis of OADs in community patients with inhaled prescription medication for shortness of breath  
William Midodzi (St. John's (NL), Canada), Jenese Nugent, Michael Asamoah-Boaheng, Zhiwei Gao, Jamie Farrell

OA1939  Increase in hospital admissions in smokers with Interstitial Lung Abnormalities in the Danish Lung Cancer Screening Trial (DLCST)  
Nils Hoyer (København NV, Denmark), Laura Thomsen, Mathilde Wille, Torgny Wilcke, Asger Dirksen, Jesper Pedersen, Zaigham Saghir, Haseem Ashraf, Saher Shaker

**Session 220 08:30 - 10:30**

Oral presentation: Novel drug targets for asthma and COPD

- **Disease(s):** Airway diseases
- **Method(s):** General respiratory patient care, Physiology
- **Chairs:** Ian M. Adcock (London, United Kingdom), Loes E. M. Kistemaker (Groningen, Netherlands)

OA1940  Late Breaking Abstract - RPL554, a first-in-class dual PDE3/4 inhibitor, causes significant bronchodilation and symptom relief: a Phase 2b COPD study  
Dave Singh (Manchester, United Kingdom), Brian Maurer, Fernando Martinez, Kenneth Newman

OA1941  Anti-inflammatory effects of the JAK inhibitor tofacitinib in two murine house dust mite-driven models of asthma.  
Anna Rita Pisanò (Parma (PR), Italy), Daniela Miglietta, Fabio Bignami, Andrew Allen, Matteo Biagetti, Giancarlo Aquino, Chiara Carnini, Maurizio Civelli, Gino Villetti

OA1942  Hydrogen sulphide donors prevent hyperreactivity of mice tracheas in an in vitro lipopolysaccharide-induced inflammation model  
Yasemin Karaman-Kutluay (Ankara, Turkey), Yesim Kaya-Yasar, Turgut Emrah Bozkurt, Inci Sahin-Erdemli
Aerosolized TLR7 Imidazoquinoline Agonist Bronchodilates In Vivo
Matthew Drake (Portland, United States of America), Becky Proskocil, Katherine Lebold, Emily Blum, Allison Fryer, David Jacoby

IL-33 blockade impacts mediators of persistence and exacerbation of chronic airway inflammation.
Jeanne Allinne (Tarrytown, United States of America), George Scott, Dylan Birchard, Amit Agrawal, Li-Hong Ben, Wei Keat Lim, Jee Hae Kim, Vishal Katam, Andrew Murphy, Matthew Sleeman, Jamie Orengo

Targeting NADPH oxidase-2 reduces cigarette smoke-induced lung inflammation and skeletal muscle wasting in mice
Ivan Bernardo (Melbourne (VIC), Australia), Samantha Passey, Huei Jiunn Seow, Steven Bozinovski, Ross Vlahos

Efficacy of a novel PI3Kδ inhibitor, DS-1515 in animal models of asthma
Masakatsu Suzuki (Tokyo, Japan), Kiyoshi Morimoto, Shinnosuke Yamada, Punet Chopra, Sandeep Sinha, Shashi Kant Singh, Harikesh Kalonia, Somnath Wagh, Rajkumar Shirumalla, Manish Diwan

Late Breaking Abstract - Analysis of chronic occupational exposure in non-smoking insulators
Samineh Kamravaei (Edmonton, Canada), Kawtar Idrissi Machichi, Noushin Miandashti, Jennifer Spring, Linda Henderson, Meghan Duick, Vedi Khadour, Paige Lacy, Muhammad T. Naseen, Lyle Melenka

Influence of childhood asthma and allergies on occupational exposure in early adulthood: a prospective cohort study
Oriane Dumas (Villejuif, France), Nicole Le Moual, Adrian J Lowe, Caroline J Lodge, Jan-Paul Zock, Hans Kromhout, Bircan Erbas, Jennifer Perret, Shymali C Dharmage, Geza Benke, Michael J Abramson

Using digital and social media to highlight the risks of occupational exposures as a cause of lung diseases
Emma Thompson (Sheffield South Yorkshire, United Kingdom), Pippa Powell, Dick Heederik, Martine Van Tongeren, Sara De Matteis, Saskia Weldam, Dan Smyth, Ewelina Szmytke, David Fishwick

Jill Murray (Johannesburg, South Africa), Ntombizodwa Ndlovu, Guy A Richards

Late Breaking Abstract - Correlation of sputum microRNA-144 expression levels with treatment response among pulmonary tuberculosis patients
R Vimal Raj (Salem (Tamil Nadu), India), T S Anitha, Ranganadin Pajanivel, Chandrasekar Adithan, K Surendra Menon
OA1956  Isoniazid mono-resistance negatively affects tuberculosis treatment outcomes in Europe
Marieke van der Werf (Stockholm, Sweden), Basel Karo, Anke Kohlenberg, Vahur Hollo, Raquel Duarte, Lena Fiebig, Sarah Jackson, Cathriona Kearns, Csaba KödmöN, Maria Korzeniewska-Kosela, Dimitrios Papaventsis, Ivan Soloviev, Dick Van Soolingen

OA1957  World Health Organization guidance on the treatment of isoniazid-resistant tuberculosis
Dennis Falzon (Genève, Switzerland), Lície Gonzalez Angulo, Ernesto Jaramillo, Karin Weyer

OA1958  Management of tuberculosis in the European Union: a multicentre audit
Senia Rosales-Klintz (Solna, Sweden), Lia D’Ambrosio, Rosella Centis, Remi Verduin, Massimo Amicosante, Ana Maria Correia, Andra Cirule, Raquel Duarte, Blagovesta Gadzheva, Gina Gualano, Heinke Kunst, Fabrizio Palmieri, Vija Riekskina, Donka Stefanova, Simon Tiberi, Giovanni Sotgiu, Giovanni Battista Migliori, Marieke J. Van Der Werf

OA1959  Clinical significance of low serum isoniazid level among the patients with drug-sensitive pulmonary tuberculosis who showed delayed smear or culture conversion.
Ju Sang Kim (Incheon, Republic of Korea), Yong Hyun Kim, Jin Woo Kim, Jick Hwan Hah, Ah Young Shin, Hyung Woo Kim, Jung Hyun Ahn

OA1960  Protective capacity of a new TB vaccine
Vladislav Gergert (Moscow, Russian Federation), Atadjan Ergeshov, Vladimir Yeremeev

OA1961  Short 12-month regimen with intravenous linezolid for MDR-TB: treatment outcomes and first follow up results.
Natalia Lytvynenko (Kyiv, Ukraine), Hanna Varytska, Maryna Pogrebna, Yulia Senko, Oksana Chobotar

OA1962  Regulation of apoptosis via the PARK7 interactome in peripheral blood mononuclear cells donated by tuberculosis patients vs. controls and the response to treatment: a systems biology approach.
George Vavougios (Larissa, Greece), Sotirios Zarogiannis, Karen Krogfelt, Konstantinos Gourgoulis
PA1973  
**Risk factors for early onset severe community-acquired pneumonia complications**  
Vaida Averjanovaitė (Vilnius, Lithuania), Rūta Saikalytė, Gedrė Cincilevičiūtė, Gabrielė Kučinskaitė, Domantė Mačiulytė, Andrius Kontrimas, Vaida Maksimaitytė, Rolandas Zablockis, Edvardas Danila

PA1974  
**The utility of CURB-65 scoring in the acute management of radiologically proven pneumonia**  
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pradeep Mallisetty, Touqeer Raja, Hamad Tariq, James Biggs, Tricia Balram, Alice Castle, Divyanish Dogar, Bimān Chakraborty, Rahul Mukherjee

PA1975  
**Influence of phosphatidylcholine treatment program on surfactant protein D levels in hypertensive patients with community-acquired pneumonia**  
Olga Shtepa (Dnipropetrovsk, Ukraine), Tetyana Pertseva

PA1976  
**Antibiotic treatment in community and hospital acquired pneumonia complicated by Clostridium difficile infection.**  
kasia zycinska (Warsaw, Poland)

PA1977  
**Comparative laboratory evaluation of systemic inflammatory respond in patients with opium drugaddiction and community-acquired pneumonia**  
Oksana Vilsaniuk (Vinnitsa, Ukraine), Yurii Mostovoy, Anastasiia Hunko

PA1978  
**Evaluation of a bespoke and innovative model of care to reduce emergency admissions for community acquired pneumonia.**  
Sarah Haines (Altrincham (Cheshire), United Kingdom), Onnor Hampson, Emma Rickards, Dennis Wat

PA1979  
**Pulmonary outcomes in adults with a history of Bronchopulmonary Dysplasia (BPD)**  
Petra Um-Bergström (Sollentuna, Sweden), Jenny Hallberg, Melvin Pourbazargan, Eva Berggren-Broström, Giovanni Ferrara, Maria Eriksson, Sven Nyren, Gunnar Lilja, Anders Lindén, Åsa Wheelock, Erik Melén, Magnus Sköld

**Terminal 7  Session 224  08:30 - 10:30**

**Oral presentation: Determinants of physical activity behaviour in patients with COPD and the physiotherapist as a physical activity coach**

**Disease(s):** Airway diseases  
**Method(s):** Public health Epidemiology General respiratory patient care  
**Chairs:** Fábio de Oliveira Pitta (Londrina (PR), Brazil), Claire M. Nolan (London, United Kingdom)

OA1981  
**Associations of sedentary behaviour and physical activity phenotypes with health outcomes in COPD: a cohort study**  
Zoe Mckeough (Sydney (NSW), Australia), Sonia Cheng, Jennifer Alison, Christine Jenkins, Emmanuel Stamatakis

OA1982  
**Characterization of COPD patients with severe airflow limitation and high physical activity**  
Elena Gimeno-Santos (Barcelona, Spain), Isabel Blanco, Robert Rodriguez-Roisin, Ane Arbillaeta-Etxarri, Eva Balcells, Anaël Barberan-Garcia, Marta Benet, Alix Marin, Monica Monteagudo, Pilar Ortega, Diego A. Rodriguez, Pere J Simonet, Pere Toran, Judith Garcia-Aymerich

OA1983  
**Heterogeneity of physical activity and its relationship with clinical outcomes in patients with COPD**  
Karina Couto Furlanetto (Londrina (PR), Brazil), Raquel Pastrello Hirata, Lorena Paltanian Schneider, José Roberto Lopes, Mariana Pereira Bertoche, Joice Mara Oliveira, Camila Bonomo, Felipe Machado, Leticia Fernandes Belo, Thais Paes, Antenor Rodrigues, Nidia Aparecida Hernandez, Fabio Pitta

OA1984  
**Physical activity in patients with COPD: a reference frame based on functional capacity**  
Heleen Demeyer (Leuven, Belgium), Nicola Sante Diciolla, Matthias Loeckx, Fernanda Rodrigues, Astrid Blondeel, Daniel Langer, Rik Gosselinck, Wim Janssens, Thierry Troosters

OA1985  
**Improving walking capacity promotes physical activity during pulmonary rehabilitation**  
Susan Lassche (Groesbeek, Netherlands), Jeannette Peters, Hanneke Van Helvoort, Alex Van ‘T Hul, Jeroen Van Hees

OA1986  
**Physical activity enhancing programme (PAEP) in COPD – a randomised controlled trial**  
Leandro Mantuani (Edinburgh (Edinburgh), United Kingdom), Brian McInstry, Susan McNarry, Susan Mullin, Susan Begg, Privender Saini, Mareike Klee, Rita Priori, William Macnee, Roberto Rabinovich

OA1987  
**Determinants of study completion and response to a 12-month physical activity intervention in COPD**  
Maria Koreny (Madrid, Spain), Heleen Demeyer, Ane Arbillaeta-Etxarri, Elena Gimeno-Santos, Anaël Barberan-Garcia, Marta Benet, Eva Balcells, Eulàlia Borrell, Diego A Rodriguez, Pere Vall-Casas, Jordi Vilaró, Robert Rodriguez-Roisin, Judith Garcia-Aymerich
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<th>Abstract ID</th>
<th>Title</th>
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<tr>
<td>PA1988</td>
<td>Late Breaking Abstract - A randomized clinical study to assess the impact of budesonide/formoterol (BUD/FM) pMDI medication reminders on adherence in COPD patients</td>
<td>Gerard J. Criner (Philadelphia, United States of America), Therese Cole, Kristen Hahn, Kari Kastango, James Eudicone, Ileen Gilbert</td>
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<tr>
<td>PA1989</td>
<td>Evaluation of safety, tolerability, pharmacokinetics, and food effect of Danirixin oral tablets in Japanese elderly healthy subjects</td>
<td>Yuki Matsuzawa (Tokyo, Japan), Hirofumi Ogura, Takashi Nagakubo, Akira Wakamatsu, Claire Ambery, Bruce Miller, Yotaro Numachi</td>
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<tr>
<td>PA1990</td>
<td>Population health impact of Indacaterol/Glycopyrronium over 4 years in chronic obstructive pulmonary disease</td>
<td>Florian S. Gutzwiler (Basel, Switzerland), Konstantinos Kostikas, Emilie Gruen, Manisha Sekharan</td>
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<tr>
<td>PA1991</td>
<td>Risk of exacerbation and pneumonia with single inhaler triple versus dual therapy in IMPACT</td>
<td>Mark Dransfield (Birmingham, United States of America), Courtney Crim, Gerard Criner, David Halpin, Meilan Han, C. Elaine Jones, Sally Kilbride, Peter Lange, David Lipson, David Lomas, Fernando Martinez, David Singh, Robert Wise</td>
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<tr>
<td>PA1992</td>
<td>Eosinophils as a predictor of mepolizumab treatment responses in COPD</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Gerard Criner, Huib Kerstjens, Eric Bradford, Stephanie Schweiker Harris, Oliver Keene, Bhabita Mayer, David Rubin, Steven Yancey, Daniel Bratton</td>
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<tr>
<td>PA1993</td>
<td>Reduced glucocorticoid receptor binding affinity in blood lymphocytes and monocytes of COPD patients</td>
<td>Anatoli Tahanovich (Minsk, Belarus), A.G. Kadushkin, L.V. Movchan, T.V. Shlman, V.V. Levandovskaya</td>
</tr>
<tr>
<td>PA1994</td>
<td>Real-life data on COPD treatment</td>
<td>Leila Karimi Gazafroudi (Rotterdam, Netherlands), Esmé J Baan, Tiana Geeraert, Johan Van Der Lei, Bruno H C Stricker, Guy G Brusselle, Lies Lahousse, Katia M Verhamme</td>
</tr>
<tr>
<td>PA1995</td>
<td>Personalized treatment through an inhaler device, adjustable to patient's respiratory profile</td>
<td>Konstantinos Zarogoulidis (Thessaloniki, Greece), Paul Zarogoulidis, Stavroula Rozou, Konstantinos Porpodis, Kelly Domvrt, Nikolaos Michailidis, Savvas Petanidis, Efrosini Kioseoglou, Dimitra Psalla</td>
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<tr>
<td>PA1996</td>
<td>Single inhaler triple therapy in patients with COPD: patient-reported dyspnoea and health status from the IMPACT Trial</td>
<td>Maggie Tabberer (Uxbridge (Middlesex), United Kingdom), Christine Elaine Jones, Sally Kilbride, Gerard J Criner, Peter Lange, Meilan K Han, Fernando Martinez, David A Lipson</td>
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<tr>
<td>PA1997</td>
<td>FACTORS INFLUENCING PHARMACOLOGICAL TREATMENT IN COPD PATIENTS ENROLLED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME (IDMP)</td>
<td>Maurizio Moretti (Modena (MO), Italy), Sara Balestraci, Manuela Latorre, Anna Porcu, Alberto Rocchi</td>
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<tr>
<td>PA1998</td>
<td>Can a telemonitoring system lead to decreased hospital admissions in elderly patients?</td>
<td>Johan Lyth (Linköping, Sweden), Leili Lind, Daniel Karlsson, Lennart H. Persson, Ann-Britt WiréHn</td>
</tr>
<tr>
<td>PA1999</td>
<td>An evaluation of ‘care bundles’ as a means of improving hospital care for patients with COPD: results of a multi-centre study in the UK</td>
<td>James Calvert (Bristol, United Kingdom), Katherine Morton, Emily Sanderson, Padraig Dixon, Sue Jenkins, Stephanie Macneill, Chris Metcalfe, Alison Shaw, Melanie Chalder, William Hollingsworth, Jonathan Benger, Sarah Purdy</td>
</tr>
<tr>
<td>PA2000</td>
<td>Implementation of an integrated care pathway based in a population health approach in Bilbao for Chronic Obstructive Pulmonary Disease patients</td>
<td>María Mar Martínez (Bilbao (Bizkaia), Spain), Ignacio Arriaga-Lariz, Gemma Fernández-PeñaLba</td>
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<td>PA2001</td>
<td>Cost-effectiveness analysis of a Home-based disease management intervention for patients with severe COPD alongside the COMET study.</td>
<td>Denis GRANADOS (Gentilly, France), Jean Bourbeau, Romain Kessler, Isabelle Durand-Zaleski, Stéphane Roze</td>
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<td>PA2002</td>
<td>Clinical management of patients newly diagnosed with COPD through targeted case finding and routine care: a longitudinal analysis of the TargetCOPD trial</td>
<td>Shamil Haroon (Birmingham (West Midlands), United Kingdom), Andrew Dickens, Peymane Adab, Alexandra Enocson, David Fitzmaurice, Rachel Jordan</td>
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</table>
Healthcare resource consumption in Italian patients with COPD: The MISTRAL study
Paolo Morini (Imola (BO), Italy), Giuseppe Vallo, Giosue Catapano, D. R. Bonardi, Carlo Pomari, Francesco Tursi, Marta Bartezagh, P. A. Porpiglia

Comparison of Clinical Efficacy and Safety between ultraLABAs and ultraLAMAs in Patients with COPD: A Systemic Review with a Meta-Analysis of Randomized Controlled Trials
EUNYEONG CHO (Seoul, Republic of Korea), Se Yong Kim, Noeul Kang, Yunjoo Im, Min-Ji Kim, Seonwoo Kim, Dong Ah Park, Kwang Ha Yoo, Yong Bum Park, Ji Ye Jung, Hyun Lee, Hye Yun Park, Seong Yong Lim, Hye Kyeong Park

Generating patient insights in chronic obstructive pulmonary disease (COPD) with social media listening study
Florian S. Gutzwiller (Basel, Switzerland), Florian S. Gutzwiller, Jean-Bernard Grunenberger, Vinay Preet Kaur, Purnima Pathak, Alaknanda Mudumby, Nigel S. Cook

7.2B Session 226 08:30 - 10:30
Poster discussion: Clinical determinants and biomarkers of COPD

Disease(s): Airway diseases, Respiratory critical care

Method(s): Epidemiology, Public health, Cell and molecular biology, General respiratory patient care

Chairs: Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Eduardo Márquez Martín (Sevilla, Spain)

Adding budesonide to formoterol reduces risk of clinically important deteriorations (CID) in moderate to very severe COPD
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Dave Singh, Christine Jenkins, Stefan Peterson, Thomas Bengtsson, Peter Wessman, Malin Fagerås

Prognostic significance of obstruction severity in COPD patients admitted to coronary artery bypass grafting.
Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Aleksandra Balitskaya, Antonina Berdyugina, Valeriy Elykomov, Andrew Zateev

Monitoring antioxidant enzyme activity in patients with COPD exacerbations
Balazs Antus (Budapest (Hungary), Csilla Paska, Imre Barta

GOLD ABCD assessment tool: Comparison of 2013 and 2017 classifications in the UK Clinical Practice Research Datalink (CPRD)
Alexander Mathioudakis (Manchester, United Kingdom), Jorgen Vestbo, Alicia Gayle, Scott Dickinson, Kevin Morris, Samantha Webster, Chris Poole

Serum amyloid A in patients with stable chronic obstructive pulmonary disease
Marta Maskey-Warzęchowska (Warszawa, Poland), Renata Rubinsztajn, Tadeusz Przybylowski, Krzysztof Karwat, Patrycja Nejman-Gryz, Ryszarda Chazan

Relationship between Volatile Organic Compounds (VOCs) in exhaled breath determined by Proton Transfer Reaction Time of Flight Mass Spectrometry (PTR-TOF-MS), clinical characteristics and airway inflammation in COPD
Liesl Carr (Leicester (Leicestershire), United Kingdom), Luke Bryant, Ahmed Yousuf, Rebecca Cordell, Michael Wilde, Salman Siddiqui, Paul Monks, Christopher Brightling

Treatment response in COPD – does FEV1 say it all? An analysis of the CRYSTAL trial
Konstantinos Kostikas (Basel, Switzerland), Timm Greulich, Claus F. Vogelmeier, Alexander Mackay, Nadine Lossi, Maryam Aalamian-Mattheis, Xavier Nunez, Veronica Anna Pagano, Francesco Patalano, Andreas Clemens

Longitudinal measurements of blood eosinophils in relation to COPD outcomes
Jens Ellingsen (Uppsala, Sweden), Christer Janson, Kristina Bröms, Karin Lisspers, Björn Ställberg, Marieann Högman, Andrei Malinovschi

Eosinophils and acute exacerbation of COPD: a potent biomarker for patients at increased risk. Preliminary reports.
Evgenia Papathanassiou (ATHENS, Greece), Andriana Papaioannou, Georgios Hillas, Eleftheria Mizi, Petros Bakakos, Vasiliki Apollonatou, Galatea Verykouki, Nikos Roussakis, Zoë Tsiligianni, Konstantinos Kostikas, Spyros Papiris, Stylianos Loukides

Impact of Eosinophilia and Time on Lung Function Decline in Adult Asthma
Florence Schleich (Liège, Belgium), Sophie Graff, Catherine Moermans, Renaud Louis

EOSINOPHIL COUNT AND FeNO AS PREDICTORS OF EXACERBATIONS IN COPD
Bernardino Alcazar Navarrete (Cájar, Spain), Oliverio Ruiz Rodriguez, Pablo Conde Baena, Pedro J Romero Palacios

Determinants of FENO in COPD with regard to current smoking
Marieann Högman (Uppsala, Sweden), Christer Janson, Karin Lisspers, Kristina BröMs, Björn Ställberg, Andrei Malinovschi
PA2020  Use of Inhaled corticosteroid (ICS)-containing regimen for COPD patients with high or low blood eosinophilia: A meta-analysis  
Jamie Chua (Caloocan City, Philippines), Albert Albay, Mithi Kalayaan Zamora

PA2021  COPD: Are beliefs about inhaled medication associated with patients’ inhaler technique?  
António Manuel Silva Duarte De Araújo (Braga, Portugal), Pedro Teixeira, Venceslau Hespanhol, Jaime Correia-De-Sousa

PA2022  Overexpression of chitotriosidase and YKL-40 in serum and sputum in healthy smokers and patients with chronic obstructive pulmonary disease  
Sebastian Majewski (Stryków, Poland), Damian Tworek, Karolina Szewczyk, Zofia Kurmanowska, Justyna Kisałkiewicz, Ewa Brzezińska-Lasota, Hanna Jerzyńska, Adam Antczak, Wojciech Piotrowski, Paweł Górski

PA2023  Significance of serum YKL-40, S100A8, S100A9, calprotectin, periostin and LRG1 levels in patients with newly diagnosed, controlled and uncontrolled asthma  
Bilun Gemicioglu (Istanbul, Turkey), Ozgur Yasar, Tulay Akcay

7.2C  Session 227  08:30 - 10:30

Poster discussion: Improving the outcomes of community-acquired pneumonia

Disease(s): Respiratory infections  Respiratory critical care  Respiratory infections
Method(s): Imaging  Cell and molecular biology  Epidemiology  Respiratory intensive care  General respiratory patient care
Chairs: Marcos I. Restrepo (San Antonio, United States of America), Lieuwe Bos (Amsterdam, Netherlands)

PA2024  Non-steroidal anti-inflammatory drug use and clinical outcomes of community-acquired pneumonia  
Damien Basille (Amiens, France), Reimar Wernich Thomsen, Morten Madsen, Pierre Duhaut, Claire Andrejak, Vincent Jouinnieux, Henrik Toft SoRensen

PA2025  A retrospective survival analysis of nursing and healthcare associated pneumonia in patients with resistant pathogens  
Kenji Umeki (Yufu, Japan), Kosaku Komiya, Yuko Usagawa, Yukiko Takeno, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, Kazufumi Hiramatsu, Jun-Ichi Kadota

PA2026  Hypoxemia as a determinant of hospitalization in patients with Community Acquired Pneumonia  
Anantharaj Suresh (Chennai (Tamil Nadu), India), Damodharan Thenmozhi, Gulecha Nayan Sri

PA2027  Association between clinical profile and etiologic agent of pneumonia  
Maria Inês Oliveira Gomes da Costa (Rio Tinto, Portugal), Ana Cipriano, Fabio Videira, Sofia Valdoleiros, Ana Machado, Joana Gomes, Miguel Abreu, Helder Bastos

PA2028  Human metapneumovirus lower respiratory tract infections in adults: chest CT imaging features and their evolution  
Lawrence A. Marinari (Bryn Mawr, United States of America), Wallace T. Miller, Jr., Madeline A. Danny

PA2029  Data from the PROGRESS study - blood gene expression patterns predict severe outcome of community acquired pneumonia  
Martin Witzenrath (Berlin, Germany), Sebastian Weis, Holger Kirsten, Elke Gruenow, Peter Ahnert, Geraldine Nouailles, Michael Kiehntopf, Petra Creutz, Markus Löffler, Norbert Suttrop, Michael Bauer, Markus Scholz

PA2030  Respiratory syncytial virus (RSV) disease in hospitalised adults in Europe: comparison of retrospective patient chart reviews of adults ≥65 (=65y) and Odile Launay (Paris, France), Florian Thalhammer, Thomas Harrer, Arnaud Cheret, Guy De La Rosa, Ian Sander, Robert Stolper, Jessica Zakar, Karin Weber

PA2031  Outcomes characteristics in healthcare-associated pneumonia  
Bruno Gil Gonçalves (Lousada, Portugal), Sara Cabral, António Paulo Lopes

PA2032  Point of care respiratory viral testing (POCT): A novel service to target appropriate antimicrobial prescription and improve antibiotic stewardship.  
Kay Roy (St Albans (Hertfordshire), United Kingdom), Katherine Groom, Matthew Knight

PA2033  Mortality associated factors of patients admitted due to flu during 2015-2016 and 2016-2017  
Alberto Mangas Moro (Madrid, Spain), Carlos Javier Carpio Segura, Estéber Zamarrón de Lucas, Concepción Prados Sánchez, José Ramón Arribas Peña, Beatriz Díaz Poltán, Rodolfo Alvarez-Sala Walker

PA2034  The PROGRESS Study - Operationalization of Disease Severity and Prediction of Outcome using the SOFA Score  
Petra Creutz (Berlin, Germany), Peter Ahnert, Michael Kiehntopf, Hamid Hossain, Michael Bauer, Uwe Völker, Trinad Chakraborty, Martin Witzenrath, Markus Löffler, Markus Scholz, Norbert Suttrop

PA2035  Broad-spectrum antibiotic use and poor outcomes in community-onset pneumonia  
Brandon Webb (Murray, United States of America), Jeff Sorensen, Al Jephson, Ian Mecham, Nathan Dean
PA2036  ERS guideline compliant antibiotics among hospitalized patients with Community-acquired pneumonia on the ward service  
Marcos I. Restrepo (San Antonio, United States of America), Stefano Aliberti

PA2037  The prognostic value of the Charlson's comorbidity index in patients with bacteremic pneumonia  
Seungeon Song (Busan, Republic of Korea), Sang Woo Moon, Se Young Kim, Min Seok Ko, Jin Eun Kim

PA2038  Risk factors for antibiotic re-administration in patients with pneumonia during hospitalization.  
Saori Nishizawa (Iizuka, Japan), Kazunori Tobino, Masanobu Ohakihisa, Yuki Goto, Kojin Murakami, Takuto Sueyasu, Miyuki Munechika, Kohei Yoshimine

PA2039  Risk factors for immunosuppression in hospitalized patients coming from the community with pneumonia: a worldwide perspective  
Marta Francesca Di Pasquale (Milano (MI), Italy), Giovanni Sottigui, Andrea Gramegna, Dejan Radovanovic, Silvia Terraneo, Luis F Reyes, Francesco Blasi, Marcos I Restrepo, Stefano Aliberti

PA2040  Evaluation of nursing and health care-associated pneumonia patients with poor performance status.  
Ryosuke Hamanaka (Oita, Japan), Kenji Umeki, Kosaku Komiya, Yoko Usagawa, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, Kazufumi Hiratsatsu, Jun-Ichi Kadota

PA2041  Validation of C-Reactive protein and CURB-65 in the first hospital admission community acquired-pneumonia patient as a predictor of 30 days mortality  
Berries Foresto Buharman (Bogor, Indonesia)

7.2D  Session 228  08:30 - 10:30

Poster discussion: Let’s interact and discuss the hot topics in pulmonary rehabilitation

Disease(s) :  Airway diseases  Interstitial lung diseases  Thoracic oncology  Sleep and breathing disorders

Method(s) : Epidemiology  Public health  Physiology  General respiratory patient care

Chairs :  Sally J. Singh (Leicester (Leicestershire), United Kingdom), Carlos Augusto Marcal Camillo (Londrina (PR), Brazil)

Effect of Pulmonary Rehabilitation on physical and mental status in cognitively impaired patients with COPD  
Vasileios Andrianopoulos (Schneeum an Kilinssee, Germany), Rainer Gloeckl, Tessa Scheeberger, Ioannis Vogiatzis, Rembort Kozzulla, Klaus Kemn

PA2042  Effects of pulmonary rehabilitation in patients with asthma  
Lennart Conemans, Dinette Agterhuis, Frits Franssen, Martijn Spruit, Eriem Wouters, Lowie Vanfleteren

PA2043  Upper and lower limb muscle strength in idiopathic interstitial pneumonias (IIP).  
Suhani Patel (Harefield, United Kingdom), Claire Nolan, Matthew Maddocks, Ruth Barker, Sarah Jones, Peter George, Felix Chua, Toby Maher, William D-C Man

PA2044  Holistic services for chronic breathlessness in people with advanced disease: a systematic review and meta-analysis  
Sophie Miller (London, United Kingdom), Lisa Brighten, Morag Farquhar , Sara Booth, Deokhee Yi, Wei Gao, Sabrina Bajwah, William D-C Man, Irene J Higginson, Matthew Maddocks

PA2045  Comprehensive comparison of the repeatability of the most commonly employed tests of exercise performance for patients with stable COPD. An observational study.  
Theresa Harvey-Dunstan (Leicester (Leicestershire), United Kingdom), Ruth M Tal-Singer, Michael I Polkey, Alan L Hamilton, Michael C Steiner, Michael D Morgan, Sally J Singh

PA2046  Sertraline in symptomatic chronic breathlessness: a double blind, randomised trial  
David Currow (Sydney (NSW), Australia), Sandra Louw, Julie Hll, Belinda Fazekas, Katherine Clark, Patricia Davidson, Christine Mcdonald, Dimitar Sajkiv, Nikki Mccaffrey, Matthew Doogue, Amy Abernethy, Meera Agar

PA2047  Is attendance and completion of a pulmonary rehabilitation programme associated with patient activation?  
Shauna Sheridan (London, United Kingdom), Eliana Guedes, Laura Moth, Lynn Mcdonnell, Leyla Osman

PA2048  A RESPIRATORY TELEREHABILITATION PROGRAM AS MAINTENANCE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE  
Juan Bautista Galdiz Iturri (Getxo (Vizcaya), Spain), Alba Gomez, Rosa Guell, Pilar Cebollero, Diego Rodriguez, Pilar Cejudo, Susana Chic, Marta Iscar, Juan Aguero, Itxaso Sayago, Gema Rodriguez Castro, Borja Costo, Jose Ignacio Pijoan

PA2049  Exercise training and airway inflammation in severe-asthma: results from a feasibility study  
Sally Majd (Leicester (Leicestershire), United Kingdom), Sally Singh, Peter Bradding, Stacey Hewitt, Lindsay Apps, Anna Murphy, Ruth Green, Rachael Evans

PA2050  Predictors for adherence to COPD exacerbation action plans  
Anke Lenferink (Oldenzaal, Netherlands), Job Van Der Palen, Laura Bosman, Paul Van Der Valk, Peter Frith, Tanja Effing

PA2051
PA2052
Simple quadriceps strength measurement in COPD using a fixed dynamometer. Determination of the minimal important difference after a pulmonary rehabilitation program.
Trija Vaidya (NANTES, France), Marc Beaumont, Claire De Bisschop, Lucie Bazerque, Camille Le Blanc, Anne Vincent, Hakima Ouksel, Arnaud Chambellan

PA2053
What is the best frequency of exercise training in patients with moderate-to-severe COPD?
Mara Paneroni (Mazzano (BS), Italy), Antonio Španevello, Elisabetta Zampogna, Mauro Carone, Vito Spinelli, Bruno Balbi, Stefano Belli, Mauro Maniscalco, Mariarosaria Guarente, Carla Simonelli, Michele Vitacca

PA2054
A randomised crossover trial investigating the effect of a portable positive pressure ventilation device on exercise tolerance in patients with COPD
Steve Cutts (London, United Kingdom), Amanda Burls, Kola Akinlabi, John R Hurst, Swapna Mandal, Stephanie K Mansell

PA2055
Impact of promotion of physical activity supported by mobile technology on behavioral changes
Erik Baltaxe (Barcelona, Spain), Ana Barberan-García, Felip Burgos, Carmen Hernandez, Carmen Herranz, Akos Tenyi, Josep Roca, Isaac Cano

PA2056
Suhani Patel (Harefield, United Kingdom), Claire Nolan, Ruth Barker, Sarah Jones, Matthew Maddocks, Peter George, Felix Chua, Toby Mahler, William D-C Man

PA2057
Benefits of pulmonary rehabilitation on ILD patients: a comparison between two types of training
Mélissa Lalande Gauthier (Montréal (QC), Canada), Marilyn Houle-Péloquin, Benoit Sauvageau, Alain-Steve Comtois, Julie Morisset, Claude Poirier

PA2058
Benefits of pulmonary rehabilitation program in patients with persistent asthma
Tajana Jalušić Glunčić (Zagreb, Croatia), Latinka Basara, Andrea Vukić Dugac, Ana Hećimović, Marija Bajutti, Miroslav Šamaržija

PA2059
Efficacy of Costal Mobilization technique and Manual diaphragm release technique in the ventilatory mechanics of COPD: a randomized clinical trial
Helena Rocha (Recife, Brazil), Rodrigo Viana, Catarina Rattes, Daniella Brandao, Taciano Rocha, Luciana Alcoforado, Verónica Parreira, Raquel Britto, Guilherme Fregonezi, Armèle Dornelas De Andrade

7.3J
Session 229  08:30 - 10:30
Poster discussion: The many facets of respiratory nursing

Disease(s): Interstitial lung diseases  Airway diseases  Sleep and breathing disorders  Thoracic oncology  Respiratory infections  Respiratory infections
Method(s): Public health  Epidemiology  General respiratory patient care

PA2060
Effectiveness of a hand-held fan for managing dyspnoea in patients with interstitial lung disease
Nicola Cassidy (Dublin 5, Ireland), Petra Grehan, Irene Byrne, Gemma O'Dowd, Jim J Egan

PA2061
The factors influencing COPD self-care: a mixed methods study
Marco Clari (Torino (TO), Italy), Dhurata Ivziku, Maria Matarese

PA2062
ECare-COPD. Self-management promotion in people with COPD: training programme
Miguel Padilha (Porto, Portugal), Paulo Machado, Ana Ribeiro, José Ramos

PA2063
Preventative care and home treatment in patients at risk of hospitalisation due to exacerbation of COPD.
Birgit Refsgaard Iversen (Århus C, Denmark), Lotte Ørneborg Rodkjær, Vibeke Bregnballe, Anders Løkke Ottesen

PA2064
Illness representations and coping strategies during exacerbation of COPD: A qualitative descriptive study.
eлизabeth Chin (MATTAPOISETT, United States of America)

PA2065
Dyadic Symptom Management in Chronic Obstructive Pulmonary Disease
Dhurata Ivziku (Roma (RM), Italy), Marco Clari, Maria Matarese

PA2066
Are symptoms experienced by patients admitted with COPD documented by health professionals? - A survey
Charlotte Sandau Bech (Fredensborg, Denmark), Dorthe Bove, Kristoffer Marså, Mattias Greve Lindholm

PA2067
Symptomatic GORD in difficult asthma is associated with worse asthma control and related comorbidities: Findings from WATCH
Yvette Thirlwall (Southampton (Hampshire), United Kingdom), Kamran Tariq, Heena Mistry, Adnan Azim, Clair Barber, Kimberley Bentley, Colin Newell, Hans Michael Haitchi, Ratko Djukanojvic, Ramesh Kurukulaaratchy
**PA2068**  
Asthma control is associated with smoking status: Findings from WATCH  
Yvette Thirlwall (Southampton (Hampshire), United Kingdom), Clair Barber, Adnan Azim, Heena Mistry, Matt Harvey, Colin Newell, Judit Varkonyi-Sepp, Hans Michael Haitchi, Paddy Dennison, Ramesh Kurukulaaratchy

**PA2069**  
Dyspnoea perception and FEV1 decline during Sputum Induction in Healthy Controls and COPD patients  
Pedro Rodrigues (Southampton (Hampshire), United Kingdom), Kristoffer Ostridge, Karl Staples, Kerry Gove, Sarah Bawden, Tom Wilkinson

**PA2070**  
Description of inhalation technique in patients with COPD in primary care  
Annika Lindh (Karlstad, Sweden), Kersti Theander, Mats Arne, Karin Lisspers, Lena Lundh, Hanna Sandelowsky, Björn Ställberg, Eva Thors Adolfsön, Elisabeth Westerdahl, Ann-Britt Zakrisson

**PA2071**  
Investigation the Effects of Smoking on sleep Quality and Sleep Apnea During Elderly  
Selman celik (Istanbul, Turkey), Hediye Arslan Ozkan

**PA2072**  
Health status among adult asthmatics – a population-based study  
Caroline Stridsman (Luleå, Sweden), Helena Backman, Britt-Marie Eklund, Linnea Hedman, Eva Rönmark

**PA2073**  
Holistic needs assessment (HNA) in lung cancer patients: bridging health and social care  
mary mambwere (London, United Kingdom), Sarah Kerr, Georgia Hardavella

**PA2074**  
Nurse led lung cancer diagnostic/supportive follow up clinic: a different approach to optimise lung cancer pathway  
Sarah Kerr (London, United Kingdom), Mary Mambwere, Georgia Hardavella

**PA2075**  
Self-reported health in adolescents with exercise induced laryngeal obstruction  
Merete Benestad (Bergen, Norway), Bente Vederhus, Jorun Drageseth, Hege Clemm, Thomas Halvorsen

**PA2076**  
The development of an instrument to assess the needs of people with COPD: a Delphi study  
Marco Clari (Torino (TO), Italy), Riccardo Casciaro, Dhurata Ivziku, Maria Matarese

**PA2077**  
Perceptions of the role of the respiratory Clinical Research Nurse.  
Rebecca Dobra (London, United Kingdom), Katherine Huband, Adam Lewis, Alan Simpson

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**Session 230**  
No Room  
Game Zone: GAME ZONE - SESSION 3

**Ultrasound**  
Fausto Leoncini (Montespertoli (FI), Italy), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands)  
**Interventional Bronchoscopy**  
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Judith Lyons (, United Kingdom), Sofia Romani (Roma (RM), Italy)

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**Session 237**  
7.3A  
Year in review: Clinical Year in Review

**Aims:** For the four different topics experts will present and discuss the top articles from the last year.

**Disease(s):** Airway diseases

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Physiotherapist, Radiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Lieuwe Bos (Amsterdam, Netherlands)

10:45  
The year in rehabilitation and chronic care  
Martijn A. Spruit (Horn, Netherlands)

11:15  
The year in asthma  
Pascal Chanez (Marseille, France)

11:45  
The year in chronic obstructive pulmonary disease  
Jadwiga Wedzicha (London, United Kingdom)

12:15  
The year in interventional pneumology  
Felix J.F. Herth (Heidelberg, Germany)
Session 238
10:45 - 12:45
Symposium: State of the art session: Respiratory infections
Practical update in respiratory infections
Aims: To update clinicians in the diagnosis, treatment and prevention of respiratory infections.

Disease(s): Respiratory infections
Method(s): Cell and molecular biology  General respiratory patient care  Imaging  Public health  Respiratory intensive care
Tag(s): Clinical
Target audience: Critical/Intensive care physician, General practitioner, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal)

10:45 Pneumonia: diagnosis, treatment and prevention
Francesco Blasi (Milan, Italy)

11:15 Tuberculosis: recent advances in diagnosis, treatments and prevention of nosocomial transmission
Christoph Lange (Borstel, Germany)

11:45 Bronchiectasis: the new, the old and the ugly
James D. Chalmers (Dundee (Angus), United Kingdom)

12:15 Non-tuberculous mycobacteria: how to treat these difficult infections
Jakko van Ingen (Nijmegen, Netherlands)

Session 239
10:45 - 12:45
Symposium: Infectious agents and childhood asthma
Implications for prevention and treatment
Aims: To describe the role of viral respiratory infections in the inception of asthma; to show how the airway microbiome and bacteria-virus interactions can both serve as targets for asthma prevention and treatment; to discuss how the environment and gut microbiomes can act as determinants of childhood asthma and to describe the implications for prevention; and to detail the management of childhood asthma in preschool children.

Disease(s): Paediatric respiratory diseases  Respiratory infections
Method(s): Epidemiology  General respiratory patient care
Tag(s): Clinical
Target audience: Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Scientist (basic, translational), Student, Trainee
Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Sejal Saglani (London, United Kingdom)

10:45 Early-life viral respiratory infections and childhood asthma inception - can we unlink the association?
Louis Bont (Utrecht, Netherlands)

11:15 It’s not just viruses - the airway microbiome, bacteria-virus interactions and childhood asthma
Avraham Beigelman (St. Louis, MO, United States of America)

11:45 The environment and the gut microbiome - interesting association or a rich field for future therapies?
Erika von Mutius (München, Germany)

12:15 Preschool asthma - have randomised controlled trials provided clarity on management?
Jonathan Grigg (London, United Kingdom)

Session 240
10:45 - 12:45
Hot topics: Preventing asthma and COPD exacerbations by increasing the inhaled glucocorticoid dose
Aims: To present and discuss the data of three recent randomised controlled trials that explored the ability of intensified inhaled corticosteroid (ICS) therapy to prevent exacerbations in patients with asthma and COPD who present with acute poor symptom control or upper respiratory tract infections (URTIs).

Disease(s): Airway diseases  Respiratory infections
Method(s): Epidemiology  Public health  Pulmonary function testing
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Nurse, Paediatrician
Chairs: Fernando J. Martinez (New York, United States of America), Emiel F. M. Wouters (Maastricht, Netherlands)
Symposium: Integrated care for patients with pulmonary vascular disease, lung diseases and heart failure
A joint ERS/ESC/Heart Failure Association session

**Aims:** This symposium is a collaborative effort between the ERS, the ESC and the Heart Failure Association of the ESC that aims to disseminate the recent advances in the chronic care of patients with chronic lung disease and heart failure. In particular, the diagnosis, pharmacological treatment and rehabilitation strategies in pulmonary vascular disease will be addressed.

**Disease(s):** Airway diseases, Pulmonary vascular diseases

**Method(s):** General respiratory patient care

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Frits M.E. Franssen (Horn, Netherlands), Marion Delcroix (Leuven, Belgium)

**10:45** Managing deteriorations in chronic obstructive pulmonary disease: which organ is failing?
Marco Canepa (Genoa, Italy)

**11:15** Optimising pharmacotherapy in patients with pulmonary arterial hypertension and comorbidities, including lung diseases and heart failure: benefits without harm?
Marc Humbert (Paris, France)

**11:45** The haemodynamic and gas-exchange responses to exercise in pulmonary hypertension, chronic obstructive pulmonary disease and left heart ventricle failure: similarities and differences
Anton Vonk Noordegraaf (Amsterdam, Netherlands)

**12:15** Interdisciplinary rehabilitation in pulmonary hypertension: can we learn from chronic obstructive pulmonary disease or heart failure?
Carolyn Rochester (New Haven, United States of America)

Symposium: Respiratory medicine meets hematology

**Aims:** To provide state of the art presentations on the pulmonary manifestations of haematological diseases (malignant and non-malignant), the spectrum of respiratory infections in immunocompromised patients with haematological diseases (e.g., during bone marrow aplasia), the non-infectious lung complications of treatments for leukaemia and lymphoma, and the pulmonary manifestations of acute and chronic graft-versus-host disease.

This session is endorsed by the European Hematology Association (EHA - www.ehaweb.org).

**Disease(s):** Respiratory infections, Thoracic oncology

**Method(s):** General respiratory patient care, Respiratory intensive care, Transplantation

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Paediatrician, Radiologist, Thoracic oncologist, Adult pulmonologist/Clinician

**Chairs:** Jacques Cadranel (Paris Cedex 20, France), Fritz Offner (Gent, Belgium)

**10:45** Pulmonary manifestations of haematological diseases: from lymphoma to sickle cell crisis
Venerino Poletti (Forlì, Italy)

**11:15** Respiratory infections in immunocompromised patients with haematological diseases
Élie Azoulay (Paris, France)
Session 243  10:45 - 12:45

Oral presentation: Intercellular communication in tissue remodelling

**Disease(s):** Airway diseases, Pulmonary vascular diseases, Respiratory critical care, Respiratory infections, Interstitial lung diseases, Sleep and breathing disorders

**Method(s):** Imaging, Epidemiology, Cell and molecular biology

**Chairs:** Aurelie Fabre (Dublin, Ireland), Philippe Bonniaud (Dijon, France)

**OA2117**

Late Breaking Abstract - Novel mesenchymal pathways that initiate emphysema
Susan Majka (Nashville, United States of America), Christa Gaskill, Jonathan Kropski, Bradley Richmond, Robert Foronjy, M. Mark Taketo

**OA2118**

Exosomal microRNAs in the lung: eliciting long-term intercellular communication?
Tilmann Sanchez-Elsner (Southampton (Hampshire), United Kingdom), Anastasios Lekkas, Toby Mellows, Eva M. Garrido-Martin, Peter H. Howarth, Peter S. Friedmann, Pandurangan Vijayanand, Christian Ottensmeier

**OA2119**

Sputum exosomal microRNAs in IPF
Julien Guiot (Liège, Belgium), Makon-Sebastien Njock, Monique Henket, Olivier Nivelles, Renaud Louis, Ingrid Struman

**OA2120**

Impact of cigarette smoke exposure on the membrane protein composition of lung-derived extracellular vesicles - implication for inflammation
Yasunari Kishino (Mölndal, Sweden), Cecilia Lässer, Amir Smailagic, Shintaro Suzuki, Kyong-Su Park, Ganesh Shelke, Jan Lötvall

**OA2121**

Essential role of smooth muscle Rac1 in severe asthma associated-airway hyperresponsiveness and remodelling
Florian Dilasser (Nantes, France), Antoine Magnan, Gervaise Loirand, Vincent Sauzeaud

**OA2122**

Myofibroblasts are associated with increase in small airway thickening, epithelial plasticity and decreased lung function in COPD
Mathew Eapen (Hobart (TAS), Australia), Chris Ward, Haydn Walters, James Markos, Collin Chia, Josie Larby, Greg Haug, Angela Hills, Tillie-Louise Hackett, Wenying Lu, Stephen Myers, Sukhwinder Singh Sohal

**OA2123**

Endothelial dysfunction in emphysematous rats exposed to intermittent hypoxia and interventional effects of tempol
Jing Zhang (Tianjin, China), Yaping Zhao, Jie Cao, Lixia Dong, Jing Zhang, Haiyan Zhao, Xin Li

**OA2124**

The effect of age on lung epithelial barrier function
Kirsten Muizer (Groningen, Netherlands), Maaike De Vries, Wim Timens, Maarten Van Den Berge, Alen Faiz, Tillie-Louise Hackett, Corry-Anke Brandsma, Irene H. Heijink
OA2128  Late Breaking Abstract - IMPACT study — single inhaler triple therapy (FF/UMEC/VI) versus FF/VI and UMEC/VI in patients with COPD: healthcare resource utilization and costs — UK
Afisi Ismaila (Cary, United States of America), Victoria Paly, Melanie Schroeder, Alan Martin, Jiahe Li, Sally Lettis, Nancy Rissbrough

OA2129  Late Breaking Abstract - Analysis of the InforMing the PAthway of COPD Treatment (IMPACT) study in the subgroup of patients taking triple therapy at screening
Dave Singh (Manchester, United Kingdom), Gerard Criner, Nicola C. Day, Mark Dransfield, David M.G. Halpin, Meilan K. Han, C. Elaine Jones, Sally Kilbride, Peter Lange, David A. Lipson, David A. Lomas, Steve Pascoe, Maggie Tabberer, Robert Wisc, Fernando J. Martinez

OA2130  Late Breaking Abstract - Reduction of COPD exacerbations with extrafine single inhaler triple therapy: post-hoc analysis by exacerbation treatment of the TRIBUTE study
Leonardo Michele Fabbri (Modena, Italy), Dave Singh, Ilaria Valente, Alessandro Guasconi, Helene Prunier, George Georges, Alberto Papi

OA2131  Late Breaking Abstract - Extrafine single inhaler triple therapy improves quality of life in COPD. Analysis of SGRQ subdomains of the TRIBUTE Study
Leonardo Michele Fabbri (Modena, Italy), Dave Singh, Ilaria Valente, Alessandro Guasconi, Helene Prunier, George Georges, Alberto Papi

OA2132  Late Breaking Abstract - Pharmacokinetic and pharmacodynamic interactions between components of extrafine formulation of BDP/FF/GB, a novel fixed-dose triple combination for asthma and COPD
Massimo Cell (Parma, Italy), Lien Gheyle, Chiara Garofalo, Carolyn Beaudot, George Georges

7.3K  Session 245  10:45 - 12:45
Symposium: Cell-matrix interactions in lung disease and regeneration
Reflections from the 2018 Lung Science Conference
Aims: This special session aims to highlight some of the key cutting-edge concepts regarding cell-matrix interactions across the spectrum of respiratory disease and regenerative medicine that were presented during the 2018 Lung Science Conference (LSC) in Estoril. Cells sense and functionally respond to their physical three-dimensional environment by translating extracellular matrix (ECM) interactions and mechanical forces and deformations into biochemical signals. Molecular defects that interrupt or alter mechanical sensing and the subsequent cell signalling events can perturb normal cellular function, thereby potentially contributing to a diverse range of diseases, including those that associate with abnormal lung development, acute lung injury, pulmonary fibrosis, airway remodelling and cancer. In this session, we will review the latest developments in our understanding of the way perturbed cell-ECM interactions determine cell fate and function and can lead to respiratory disease. This session will include presentations by an exciting panel of leading investigators who are working at the forefront of respiratory science and medicine as well as two short presentations from two prize winners at the 2018 LSC.

Disease(s): Airway diseases  Interstitial lung diseases
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Clinical researcher, Scientist (basic, translational), Student, Thoracic oncologist, Trainee
Chairs: Rachel Chambers (London, United Kingdom), Silke Meiners (München, Germany)

10:45  Human lung scaffolds to model lung disease and tissue regeneration
Darcy Wagner (Lund, Sweden)  2133

11:15  Matrix dysfunction and the aging lung
Herbert Schiller (Munich, Germany)  2134

11:45  Laser-capture microdissection, mass spectrometry and immunohistochemistry reveal pathological alterations in the extracellular matrix of transplanted lungs
Catharina Mueller (Lund, Sweden)  2135

12:00  Progress towards human lung regeneration in end-stage respiratory failure: studying human lung development in vitro using organoid cultures of human embryonic lung stem cells
Marko Nikolic (Cambridge (Cambridgeshire), United Kingdom)  2136

12:15  Stem cell renewal and the matrix
Toby Maher (St. Albans (Hertfordshire), United Kingdom)  2137

7.3Q  Session 246  10:45 - 12:45
Oral presentation: New predictors of morbidity and mortality in COPD
Disease(s): Airway diseases  Respiratory critical care
Method(s): Epidemiology  Imaging  General respiratory patient care
Late Breaking Abstract - High-sensitivity troponin I predicts all-cause mortality in stable COPD in the COSYCONET cohort

Benjamin Waschki (Hamburg, Germany), Peter Alter, Tanja Zeller, Christina Magnusen, Raphael Twerebold, Stefan Blankenberg, Albert Omlo, Christian Herr, Klaus Rabe, Tobias Welte, Rudolf Jörres, Claus Vogelmeier, Robert Bals, Henrik Watz

OA2139

Disease progression patterns in COPD

Felix John Samuel Bragman (London, United Kingdom), Alexandra Young (London, United Kingdom), Alexandra Louise Young, David J Hawkes, Daniel C Alexander, John R Hurst

OA2140

Longitudinal stability and association with all-cause mortality of the 2017 GOLD groups in the ECLIPSE cohort

Alvar Agusti Garcia-Navarro (Barcelona, Spain), Maria Rosa Faner Canet, Guillaume Noell, Per Bakke, Edwin K. Silverman, Ruth Tal-Singer

OA2141

The value of short physical performance battery (SPPB) as an alternative component of the BODE Index in predicting death in chronic obstructive pulmonary disease (COPD) in the ERAIC cohort.

Jilles Fermont (Cambridge (Cambridgeshire), United Kingdom), Marie Fisk, Charlotte Bolton, John Cockroft, Carmel Menciery, Jonathan Fulld, Divya Mohan, Ruth Tal-Singer, Hana Mullerova, Angela Wood, Ian Wilkinson, Michael Polkey

OA2142

Soluble urokinase plasminogen activator receptor (suPAR) predicts mortality in exacerbated COPD

Ditte Vendelbo Jørgensen (Hvidovre, Denmark), Nina Skalvan Godtfredsen, Kristoffer Marsaa, Charlotte Suppli Ulrik, Ove Andersen, Jesper Eugen-Olsen, Line Jee Hartmann Rasmussen

OA2143

Role of different spirometric reference equations for lung volumes assessment

Gianluca Imeri (Bergamo, Italy), Fulvio Braida, Marco Contoli, Angelo Corsico, Fabiano Di Marco, Claudio Micheletto, Girolamo Pelaia, Paola Rogliani, Roberta Trapasso, Pierachille Santus, Nicola Scichilone, Paolo Solidoro, Giovanni Sotgiu

OA2144

Novel spirometry indices detect mild airflow obstruction not detected by traditional criteria

Surya Bhatt (Birmingham, United States of America), Nirav Bhakta, Carla Wilson, Chris Cooper, Igor Barjaktarevic, Sandeep Boddui, Young-II Kim, Michael Eberlein, Prescott Woodruff, Frank Scirub, Peter Castaldi, Meilan Han, Mark Dransfield, Arie Nakhamani

OA2145

Clinical clustering of COPD patients is useful to predict future COPD exacerbations

Andrei Malinovschi (Uppsala, Sweden), Christer Janson, Kristina Bröms, Björn Ställberg, Karin Lisspers, Marieann Högman

OA2146

Late Breaking Abstract - Estimating elastic recoil via the forced oscillation technique (FOT).

Kris Nilsen (VIC, Australia), David, G Chapman, Katrina, O Tonga, Greg, G King, Bruce, R Thompson, Cindy Thanmir

OA2147

Acute effects of inspiratory threshold load and interface on breathing pattern and activity of respiratory muscles

Jéssica Danielle Medeiros da Fonséca (Santa Cruz, Brazil), Vanessa Regiane Resquetti, Antônio José Sarmento Da Nobrega, Luciana Fontes Silva Da Cunha Lima, Valéria Soraya Farias Sales, Andrea Aliverti, Guilherme Fregonezi

OA2148

Acute effects of normocapnic hyperpnoea exercise on intercostal and locomotor muscle oxygenation in COPD

Ferid Oueslati (Québec (QC), Canada), Didier Saey, Eric Nadreau, Mickael Martin, Francois Maltais

OA2149

THE EFFECT OF PREGNANCY ON RESPIRATORY FUNCTION

Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Daniela Alberigo, Nicola Persico, Peter Frykholm, Federica Briganti, Mario Nosotti, Ilaria Righi

OA2150

Chest wall kinematics measured during inspiratory threshold loading, deep breathing maneuvers and CO2 rebreathing in individuals post-stroke.

Jadranka Spahija (Montréal (QC), Canada), Karen Dev, Caroline De Marchie, Joyce Fung

OA2151

Pharmacometabolic effect of pirfenidone treatment in IPF detected by high resolution MALDI-FTICR imaging

Isis Enlil Fernandez (Münch, Germany), Na Sun, Mian Wei, Michael Witting, Michaela Aichler, Stijn Verleden, Philippe Schmitt-Kopplin, Axel Waleh, Oliver Eickelberg
Reduced FEV3/FVC identifies smokers at risk of developing COPD in the SPIROMICS cohort
Igor Barjaktarevic (Los Angeles, United States of America), Matthew Flynn, Russell Buhr, Xiaoyan Wang, William Lemaster, Brett Dolezal, David Couper, Wayne Anderson, Richard Kanner, Robert Paine, Robert Kaner, Jeffrey Curtis, Wanda O’Neal, Prescott Woodruff, Lisa Postow, Meilan Han, Fernando Martinez, Graham Barr, James Wells, Victor Ortega, Stephen Peters, Eric Hoffman, Claire Doerschuk, Victor Kim, Mark Dransfield, Surya Bhatt, Nirav Bhakta, Brad Drummond, Russell Bowler, Gerard Criner, Cheryl Pirozzi, Carlos Martinez, Christopher Cooper

Airflow obstruction which corrects post-bronchodilator as a predictor of future development of COPD
Christopher B. Cooper (Los Angeles, United States of America), Russell Buhr, Igor Barjaktarevic, Xiaoyan Wang, Brett Dolezal, Matthew Flynn, David Couper, Wayne Anderson, Robert Paine, Robert Kaner, Jeffrey Curtis, Wanda O’Neal, Prescott Woodruff, Lisa Postow, Meilan Han, Fernando Martinez, Graham Barr, James Wells, Victor Ortega, Eric Hoffman, Claire Doerschuk, Victor Kim, Mark Dransfield, Surya Bhatt, Nirav Bhakta, Bradley Drummond, Russell Bowler, Gerard Criner, Carlos Martinez, Richard Kanner

Risk of underdiagnoses of cardiac sarcoidosis by routine electrocardiogram and echocardiogram in patients with biopsy-proven extracardiac sarcoidosis
Hiroshi Ohira (Sapporo, Japan), Keiichiro Yoshinaga, Shinya Sakiyama, Toshitaka Nakaya, Naoko Suzuki, Ayako Sugimoto, Akiko Hayashishita, Tadao Aikawa, Takahiro Sato, Osamu Manabe, Noriko Oyama-Manabe, Taku Watanabe, Masaharu Nishimura, Ichizo Tsujino

Pulmonary function trends predict mortality in patients with hypersensitivity pneumonitis
Cristina Boccabella (L’Aquila (AQ), Italy), Claudio Macaluso, Maria Kokosi, Veronica Alferi, Carmel Stock, Vasilis Kouranos, George Margariotopoulos, Letizia Mori, Joseph Barnett, Philip Molyneaux, Peter George, Felix Chua, Toby Maher, Sujal Desai, Joseph Jacob, Anand Devaraj

Risk of underdiagnoses of cardiac sarcoidosis by routine electrocardiogram and echocardiogram in patients with biopsy-proven extracardiac sarcoidosis

Diminished peripheral T cell activity in sarcoidosis associates with progressive disease.
Cody Schott (Chicago, United States of America), Christian Ascoli, Yue Huang, David Perkins, Patricia Finn

Cardiac sarcoidosis: a tertiary centre experience
Vasileios Kouranos (London, United Kingdom), Rakesh Sharma, Rajdeep Khattar, John Baksi, Maria Kokosi, Sanjay Prasad, Kshama Wechalekar, Richard Underwood, Martin Cowie, Athol Wells

Peripheral blood memory T-helper (Th) 17 subsets in patients with chronic and acute pulmonary sarcoidosis
Olga P. Baranova (St. Petersburg, Russian Federation), Tatyana Ses, Igor Kudryyvez, Nataliya Lazareva, Mariya Serebryakova, Mikhail Ilkovich, Areg Totolyan

Clinical phenotypes of extra-pulmonary sarcoidosis. The EpiSarc study
Raphael Lhote (Suresnes, France), Fleur Cohen-Aubart, Hilario Nunes, David Launay, Karim Sacré, Raphael Borie, Nicolas Schleinitz, Mohamed Hamidou, Hervé Devillers, Philippe Bonniaud, Matthieu Maheva, François Lhote, Thomas Papo, Julien Haroche, Bertrand Godeau, Marc Michel, Zahir Amoura, Dominique Valeyre, Isabella Annesi-Maesano

Cardiac sarcoidosis: a tertiary centre experience

Genetic Profiles of Clinical Features in Sarcoidosis
Jonas Schupp (Freiburg, Germany), Sandra Freitag-Wolf, Ansgret Fischer, Violeta Mihailović-Vučinić, Paola Rottoli, Antje Prasse, Stefan Schreiber, Michael Krawczak, Joachim Müller-Quernheim

Late Breaking Abstract - A novel bronchoscopic lung volume reduction device for severe emphysema: a preclinical study in pigs
Guangfa Wang (Beijing, China), Yan Hu, Yuan Cheng, Hong Zhang

Late Breaking Abstract - First-in-Human Results of Bronchial Rheoplasty: An Endobronchial Treatment For Chronic Bronchitis (CB)
Arshang Valipour (Wien, Austria), Alvin Ing, Jonathan Williamson, Tajalli Saghaie, Daniel Steinfort, Lou Irving, Gregory Snell, Eli Dabscheck, William Krimsky, Jon Waldstreicher, Sebastian Fernandez-Bussy

Late Breaking Abstract - First-in-Human Results of Bronchial Rheoplasty: An Endobronchial Treatment For Chronic Bronchitis (CB)
Arshang Valipour (Wien, Austria), Alvin Ing, Jonathan Williamson, Tajalli Saghayie, Daniel Steinfort, Lou Irving, Gregory Snell, Eli Dabscheck, William Krimsky, Jon Waldstreicher, Sebastian Fernandez-Bussy
**Confocal Laser Endomicroscopy (CLE) as a Guidance Tool for Transbronchial Lung Cryobiopsies in ILD**
Lizzy Wijmans (Amsterdam, Netherlands), Daniel De Bruin, Joris Roelofs, Rene Jonkers, Peter Bonta, Venerino Poletti, Juergen Hetzel, Jouke Annema

**Transbronchial cryobiopsy from two different lobes versus one lobe in diffuse parenchymal lung diseases**
Daniela Patricia Cunha Machado (Rio Tinto, Portugal), Gisela Lage, Catarina Marques, Filipa Lima, Inês Marques, Carla Nogueira, Ana Oliveira, José Almeida, Sérgio Campainha, Agostinho Sanches, Sofia Neves

**Endobronchial Ultrasonography Elastography for predicting malignancy**
Benan Caglayan (Istanbul, Turkey), Sinem Iliaz, Pınar Bulutay, AyşE Armutlu, Fatma Isil Uzel, AyşE Bilge öZtüRk, Leyla Pur öZyiğIt

**Mini-thoracoscopy vs Semirigid Thoracoscopy in Undiagnosed Exudative Pleural Effusions: A Randomized Controlled Trial**
Karan Madan (New Delhi (Delhi), India), Shweta Bansal, Saurabh Mittal, Anant Mohan, Vijay Hadda, Deepali Jain, Sudsheer Arava, Prabhat Malik, Gopi Kihlmani, Ravindra Pandey, Randeep Guleria

**Bronchoscopic Biopsy of Solitary Pulmonary Nodules with No Leading Airway Path**
Felix J.F. Herth (Heidelberg, Germany), Shi Yue Li, Jayuan Sun, Bing Lam, Daniel Nader, Jennifer Idris

**Preclinical testing of custom-made airway stents**
Anja Lena Thiebes (Aachen, Germany), Donnacha J. McGrath, Kathrin Kurtenbach, Johanna Clauser, Barry O’Brien, Peter E. Mchugh, Stefan Jockenhoevel, Christian G. Cornelissen

7.3L Session 250 10:45 - 12:45
Poster discussion: New kids on the block: novel molecular pathways and therapeutic targets in chronic lung diseases

**Airway diseases** | **Respiratory infections** | **Interstitial lung diseases** | **Pulmonary vascular diseases** | **Sleep and breathing disorders** | **Respiratory infections**
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**Method(s)**: Cell and molecular biology

**Chairs**: Niki L. Reynaert (Maastricht, Netherlands), Colin Bingle (Sheffield (South Yorkshire), United Kingdom)

**LSC - 2018 - Role of Mitogen activated-kinase (MAPK)-phosphatase (MKP)-5 in pulmonary fibrosis**
Theodoros Karampitsakos (Thebes, Greece), Argyrios Tzouvelekis (argyrios.tzouvelekis@fleming.gr / Department of Pulmonology, Sotiria Chest Hospital, Athens), Kisuk Min (kisukmin@gmail.com / Department of Pharmacology, Yale School of Medicine, New Haven, CT, USA, New Haven), Nikolaos Xylourgidis (nikosxylourgidis@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Guoying Yu (guoyingyu@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Jose D. Herazo-Maya (joseherazomaya@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Leonard Bizenhofer (leonardbizenhofer@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Naftali Kaminski (naftalikaminski@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven)

**The role of microRNA-155 in cigarette smoke-induced inflammation.**
Elise De Smet (Ghent, Belgium), Pieter Mestdagh, Francisco Avila Cobos, Evy Blomme, Fien Verhamme, Sharen Provost, Tania Maes, Guy Joos, Guy Brusselle, Ken Bracke

**Cigarette smoke upregulating the expression of miR 21 increases IL-8 in airway epithelial cells**
Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Eleonora Di Salvo, Maria Ferraro, Paola Dino, Federico Saibene, Luigi Lanata, Sebastiano Gangemi

**Small airway fibroblasts from COPD patients are senescent and pro-fibrotic**
Catherine Wrench (London, United Kingdom), Jonathan Baker, Peter Fenwick, Louise Donnelly, Peter Barnes

**Aged tenascin-C knockout mice have increased lung volume and septal surface but unchanged lung function**
Tiziana Patrizia Cremona (Bern, Switzerland), Sandrine Gremlich, Matthias Roth-Kleiner, Johannes Shittny

**Epithelial pIgR: A new player in idiopathic pulmonary fibrosis?**
Thomas Plante-Bordeneuve (Ottignies, Belgium), Charles Pilette, Yousof Yakoub, Marylène Lecocq, François Huaux, Antoine Froidure
**Syk expression and function in the pulmonary vasculature**
Christoph Tabeling (Berlin, Germany), Julia Herbert, Ekaterina Boiaria, Andreas C. Hocke, Katherina Sewald, David J. Lamb, Stefan-Lutz Wollin, Heinz Fehrenbach, Wolfgang M. Kuebler, Armin Braun, Norbert Suttrop, Norbert Weissmann, Martin Witzenrath

**Development of a nanostructured sensor for monitoring oxidative stress in living cells**
Elisabetta Pace (Palermo (PA), Italy), Chiara Cipollina, Rosalinda Inguanuta, Bernardo Patella, Marco Buscetta, Serena Di Vincenzo, Maria Ferraro, Carmelo Sunseri

**Dysregulated mitochondrial integrity associated with lamin B1 reduction is involved in cellular senescence progression in COPD pathogenesis.**
Nayuta Saito (Tokyo, Japan), Jun Araya, Saburo Ito, Yusuke Hosaka, Tsukasa Kadota, Masahiro Yoshida, Kazuya Tsoubouchi, Akihiro Ichikawa, Yusuke Kurita, Kenji Kobayashi, Shunsuke Minagawa, Hiromichi Har, Hirofumi Utsumi, Haruhiko Yanagisawa, Mitsu Hashimoto, Hiroshi Wakui, Takeo Ishikawa, Takenori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano

**Metformin regulates sirtuin expression in airway epithelial cells**
Aneesha Bhandari (london, United Kingdom), Jonathan Baker, Louise Donnelly, Peter Barnes

**Supportive interaction of PI3K-Akt-mTOR and STAT3-miR21-PTEN controls IgE induced airway remodeling**
Lei Fang (Basel, Switzerland), Lei Fang, Michael Tamm, Daiana Stolz, Michael Roth

**Involvement of Hedgehog pathway in airway cell differentiation**
Randa Belgacemi (bezannes, France), Jeanne-Marie Perotin, Christelle Coraux, Emilie Lenzka, Adeline Germain, Gonzague Delepine, Myriam Polette, Gaëtan Deslée, Valerian Dormoy

**GPR40 promotes tight junction assembly in human airway epithelial cells via AMPK-dependent mechanisms**
Aekkacha Moonwiriyakit (Bangkok, Thailand), Panisara Wattanaphichet, Chatthai Muanprasat

**Role of chaperone-mediated autophagy in COPD pathogenesis.**
Yusuke Hosaka (Tokyo, Japan), Jun Araya, Kazuya Tsoubouchi, Shunsuke Minagawa, Hiromichi Har, Akihiro Ichikawa, Nayuta Saito, Tsukasa Kadota, Masahiro Yoshida, Takeo Ichikawa, Takenori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano

**Cigarette smoke-induced activation of the integrated stress response in COPD airway epithelial cells and the role of oxidative stress**
Gimano Amatngalim (Utrecht, Netherlands), Elke Malzer, Annemarie Van Schadewijk, Jayson Bradley, Maria Zarcone, Anne Van Der Does, Pieter Hiemstra, Stefan Mrnck

**Involvement of NCOA4-mediated ferritinophagy in cigarette smoke-induced ferroptosis in COPD pathogenesis**
Masahiro Yoshida (Tokyo, Japan), Jun Araya, Yusuke Hosaka, Akihiro Ichikawa, Nayuta Saito, Kazuya Tsoubouchi, Takenori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano

**Role of NLRP3 inflammasome and ATP in S100A12-induced MUC5AC production in airway epithelial cells**
Hye Jeong Kim (Ansan-si, Republic of Korea), Karam Kim, Jin Hyun Kang, Il Yup Chung

**Increased CTGF expression of circulating fibrocytes in asthmatic patients with severe OSA - the role of HIF-1a and HDAC7**
Tsai-Yu Wang (Taipei, Taiwan), Yu-Lun Lo, Chun-Hua Wang, Han-Pin Kuo

**Terminal 7**
**Session 251**
**10:45 - 12:45**

**Oral presentation: Multiomics studies in epidemiology: what can they tell us?**

**Disease(s):** Airway diseases

**Method(s):** Imaging Epidemiology

**Chairs:** Erik Melén (Stockholm, Sweden), Seif Shaheen (London, United Kingdom)

**Late Breaking Abstract - Associations between a COPD genetic risk score and lung structure on computed tomography (CT): SPIROMICS**


**A weighted genetic risk score based on 279 signals of association with lung function predicts Chronic Obstructive Pulmonary Disease**

Louise Wain (Leicester (Leicestershire), United Kingdom), Nick Shrieve, Anna Guyatt, Vicki Jackson, A. Mesut Erzurumluoglu, Chiara Batini, Nicola Reeve, Spirometa Consortium, Lung Eqtl Study, Brian Hobbs, Michael Cho, David Strachan, Andrew Morris, Ian Hall, Martin Tobin
**OA2189 Heritability and genome-wide association study of diffusing capacity of the lung (DLCO)**
Natalie Terzikhan (Rotterdam, Netherlands), Fanfui Sun, Fien Verhamme, Hieab Adams, Daan Loth, Ken Bracke, Bruno Stricker, Lies Lahousse, Josée Dupuis, Guy Brusselle, George O'Connor

**OA2190 Influence of gene-by-sex interaction on time-to-asthma onset: a large-scale genome-wide meta-analysis**

**OA2191 Maternal dietary antioxidant intake in pregnancy and childhood respiratory and atopic outcomes: birth cohort study**
Annabelle Bédard (Barcelona, Spain), Kate Northstone, John W Holloway, A John Henderson, Seif O Shaheen

**OA2192 The effect of early puberty on asthma in women and men: A Mendelian randomization study**
Cosetta Minelli (London, United Kingdom), Diana Van Der Plaat, Bénédicte Leynaert, Raquel Granell, Andre F.S. Amaral, Miguel Pereira, Osama Mahmoud, John Matthews, Julie Olsson, Jens Reeder, Kiran Mukhyala, Jennifer Tom, Amy Cowgill, Jan Vogel, Bill Forrest, Matt Brauer, Julie Hunkapiller, Robert R. Graham, Tim Behrens, Brian Yaszap

**OA2193 Identification of novel rare genetic variants associated with COPD in the general population**
Maaike de Vries (Groningen, Netherlands), Diana A. Van Der Plaat, Ivana Nedeljkovic, K. Joeri Van Der Velde, Najaf Amin, Cornelia Van Duijn, Judith M. Vonk, H. Marike Boezen, Cleo C. Van Diemen

**OA2194 A whole genome sequencing association study of severe, uncontrolled asthma**
Diana Choy (South San Francisco, USA), David Choy, Tushar Bhargale, Art Wuster, Zia Khan, Amy Dressen, Karen Cuenco, Lorena Riol Blanco, Joseph R. Arron, Mark Wilson, Rajita Pappu, Toshifumi Y., Daniel Laftkas, Tracy Staton, Fang Cai, Rebecca Bauer, Cecile Holweg, Dorothy Cheung, Hubert Chen, Joseph Lin, Alex Abbas, John Matthews, Julie Olsson, Jens Reeder, Kiran Mukhyala, Jennifer Tom, Amy Cowgill, Jan Vogel, Bill Forrest, Matt Brauer, Julie Hunkapiller, Robert R. Graham, Tim Behrens, Brian Yaszap

**7.2A Session 252 10:45 - 12:45**
Poster discussion: The world of idiopathic pulmonary fibrosis (IPF): global registries

**Disease(s):** Interstitial lung diseases

**Method(s):** Public health Endoscopy and interventional pulmonology Epidemiology Imaging General respiratory patient care

**Chairs:** Carlo Vancheri (Catania (CT), Italy), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

**PA2195 What can we learn from Idiopathic Pulmonary Fibrosis Registries?**
Taha Lodhi (Cheadle (Cheshire), United Kingdom), Colm Leonard, Pilar Rivera Ortega, Helen Morris, Tracey Marshall, Katherine Zakis, Theresa Garfoot, Conal Hayton, Melanie Greaves, John Blaikley, Nazia Chaudhuri

**PA2196 Predictors of death or transplant in patients with idiopathic pulmonary fibrosis in the IPF-PRO Registry**
Laurie Snyder (Durham, United States of America), Megan L. Neely, Anne Hellkamp, Emily O'Brien, Kevin R Flaherty, Joao De Andrade, Craig Conoscenti, Thomas Leonard, Shaun Bender, Mridu Gulati, Daniel A Culver, Robert J Kaner, Scott Palmer, Hyun J Kim

**PA2197 Outcome differences between idiopathic pulmonary fibrosis (IPF) and other interstitial lung diseases (ILD) - data from the EXCITING registry**
Michael Kreuter (Heidelberg, Germany), Hans-Joachim Kabitz, Lars Hagmeyer, Peter Hammerl, Albert Esselman, Conrad Wiederhold, Dirk Skowasch, Christoph Stolpe, Marcus Joest, Stefan Veitschans, Sabine Witt, Reiner Leidl, Andreas Hellmann, Michael Pfeifer, Juergen Behr, Andreas Guenther, Dagmar Kauchak, Felix J.F. Herth, Philipp Markart

**PA2198 The European IPF Registry: Addressing challenges and characteristics of patients with Idiopathic Pulmonary Fibrosis**
Ekatery Krauss (Giessen, Germany), Andreas Guenther, Walter Klepetko, Philippe Bonniaud, Carlo Vancheri, Athol Wells, Jasmin Wagner, Bettina Paul, Ulrich Costabel, Maria Asuncion Nieto Barbero, Veronika Mueller, Martina Vasakova, Alberto Pesci, Matteo Sofia, Fotos Drakopanagiotakis, Werner Seeger, Bruno Crestani

**PA2199 Baseline characteristics of 1461 participants in the Pulmonary Fibrosis Foundation Patient Registry**
Kevin Flaherty (Chicago, United States of America), Joao De Andrade, Lisa Lancaster, Susan Limb, Kathleen Lindell, Steven Nathan, Ganesh Raghu, Cathie Spino, John Stauffer, Paul Wolters, Gregory Cosgrove

**PA2200 Forced vital capacity, total lung capacity and diffusion capacity in idiopathic pulmonary fibrosis**
Ida Pesonen (Stockholm, Sweden), Jing Gao, Dimitrios Kalafatis, Lisa Carlson, Marjukka Mylläriemi, Giovanni Ferrara, Magnus Sköld

**PA2201 Functional decline over time in patients with IPF treated with pirfenidone: the PROOF registry**
Wim A Wuys (Rotselaar, Belgium), Caroline Dahlgqvist, Hans Slabbynck, Marc Schlesser, Natacha Gusbin, Christophe Compere, Sofie Maddens, Klaus-Uwe Kirchgaessler, Karen Bartley, Benjamin Bondue
Session 253
10:45 - 12:45
Poster discussion: Lung cancer: personalised medicine

**Disease(s):** Thoracic oncology, Airway diseases, Sleep and breathing disorders

**Method(s):** Public health, Endoscopy and interventional pulmonology, General respiratory patient care, Cell and molecular biology, Epidemiology, Surgery

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Torsten Gerriet Blum (Berlin, Germany)

**PA2212** Hypofractionated radiotherapy for stage I lung carcinomas: moderate hypofractionation optimizes outcome
Inês Menoux (Strasbourg, France), Delphine Antoni, Pierre Truntzer, Audrey Trunzter, Gilbert Massard, Georges Noël

**PA2213** Tyrosine-kinase inhibitors (TKI) in first-line treatment of patients with non-small cell lung cancer (NSCLC): real life data from the Czech Republic.
Jana Skříčková (Brno 35, Czech Republic), Renata Chloupková, Zbyněk Bortlíček, Petr Brabc, Karel Hejduk, Ladislav Dušek, Miroslav Pešek, Vítězslav Kolek, Leonka Koubková, Markéta Černovská, František Salajka, Milada Žemanová, Jana Krejčí, Helena Čupková, Monika Šťastná, Andrea Benejová, Marcela Tomišková, Jaromír Roubec, Ivona Grygářková, Libor Havel, Michal Hrnčiarik, Petr Opáček

**PA2214** Adapalene abrogates erlotinib-induced skin disorder by regulating proinflammatory cytokine production from human epidermal cells
Nanako Miwa (Kobe-City, Japan), Tatsuya Nagano, Daisuke Tamura, Ryota Dokuni, Kanako Umezawa, Naoko Katsurada, KyoSuKe Nakata, Masatsugu Yamamoto, Motoko Tachihara, Hiroshi Kamiryo, Kazuyuki Kobayashi, Yoshihiro Nishimura

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**PA2202** Pirfenidone use in a Swedish cohort of patients with pulmonary fibrosis (PF)
Magnus Sköld (Stockholm, Sweden), Giovanni Ferrara, Karen Bartley, Aaron Levine, Lisen Arnheim-Dahlstrom, Klaus-Uwe Kirchgaessler, Ragnar Linder, Christer Janson

**PA2203** Real world idiopathic pulmonary fibrosis in the EMPIRE registry
Martina Vasakova (Praha 4, Czech Republic), Martina Stercelová, Nesrin Mogulkoc, Jan Kus, Veronika Müller, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Mordechai Kramer, Michal Svoboda, Markéta Janotová, Martina Vašáková

**PA2204** Differences in baseline characteristics of newly diagnosed IPF patients in the EMPIRE countries
Veronika Müller (Budapest, Hungary), Martina Šterclová, Nesrin Mogulkoc, Jan Kus, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Michal Svoboda, Markéta Janotová, Martina Vašáková

**PA2205** Bleeding risk in IPF patients treated with different anticoagulants: Real world data from the European MultiPartner IPF Registry (EMPIRE)
Abigéél Margit Kolonics-Farkas (Budapest, Hungary), Martina Šterclová, Nesrin Mogulkoc, Jan Kus, Veronika Müller, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Michal Svoboda, Markéta Janotová, Martina Vašáková

**PA2206** Cryobiopsy in the diagnosis of diffuse parenchymal lung diseases: diagnostic strategy and complications in 699 patients
Claudia Ravaglia (Forlì, Italy), Sara Tomassetti, Alessandra Dubini, Sara Piciucchi, Venerino Poletti

**PA2207** Combined idiopathic interstitial pneumonia (IIP) and emphysema (E) in the Veterans Administration (VA) health system: characteristics, tobacco use, and outcomes
Roy Pleasants (Cary, United States of America), Armando Bedoya, Robert Mundich, Anne Reihman, Karen Wety-Wolf, Robert Tighe

**PA2208** Intermittent lung disease rates and risk factors in a UK lung cancer screening trial
Theresia Mikolasch (Cambridge (Cambridgeshire), United Kingdom), Mamta Ruparel, Robert Peddie, Robert Kendich, Anne Reihman, Karen Wety-Wolf, Robert Tighe

**PA2209** A simple prognostic tool for idiopathic pulmonary fibrosis (IPF)
Thomas Gille (Cambridge, United Kingdom), Kim-Anastasia Levand, Marouane Boubaya, Loris Moya, Guillaume Bertrand, Zohra Carton, Carole Planè, Dominique Valeyre, Pierre-Yves Brillet, Hilario Nunez

**PA2210** Does body mass index have prognostic significance for patients with idiopathic pulmonary fibrosis?
Nesrin Mogulkoc (IZMIR, Turkey), Martina Stercelová, Veronika Müller, Jan Kus, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Marketa Janotova, Martina Vasakova

**PA2211** Myositis-specific antibodies in a cohort of idiopathic interstitial pneumonias with suggestive morphologies.
Laurens De Sadeleer (Leuven, Belgium), Stijn Verleden, Ellen De Langhe, Nicolas Bodart, Alain Vigneron, Xavier Bossuyt, Bart Vanaudenaerde, Wim Wuyts

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**7.2B**
PA2215 Clinical, histological and molecular characteristics of lung cancer in patients under 30 years-old. 
Agathe Ducrocq (ROUEN, France), Mathieu Salaün, Nicolas Piton, Aude Lamy, Florian Guisier, Luc Thiberville

PA2216 Changes in targeted therapy and costs in NSCLC between 2009 and 2013 
Julia Walter (Neuherberg, Germany), Rolf Holle, Amanda Tufman, Larissa Schwarzkopf

PA2217 Accuracy of PD-L1 tumour staining of cytological and histological samples of lung adenocarcinoma 
Carrie-Anne Wagner (Fitzroy North, Australia), Michael Christie, Louis Irving, Daniel Steinfeld

PA2218 Soluble sPD-L1 plasma concentrations in a series of 95 lung cancer patients 
Dragana M. Jovanović (Beograd, Republic of Serbia), Jelena Kotur Stevuljević, Marina Roksandić-Milenković, Marioara Simon, Vesna Ceriman, Spasoje Pepević, Ivana Vukančić, Natalija Samardžić, Milica Komić, Branimir Ilčić

PA2219 Impact of radiotherapy on outcomes of nivolumab in advanced non-small cell lung cancer: a case controlled study 
Chinthaka Samaranyake (Sunshine Coast, Australia), John Coucher, Elizabeth Mccaffrey, Margot Lehman, Michelle Murphy

PA2220 Inhaled immunotherapy for lung cancer? Certainly possible. 
Anastasios Kaliamos (Athens, Greece), Pavlos Zarogoulidis, Dora Tsiouda, Aggeliki Rapti, Chrysanthi Sardeli, Haidong Huang, Wolfgang Hohenforst-Schmidt, Georgia Trakada, Konstantinos Sapidis

PA2221 Multimodal therapeutic approach for locally advanced NSCLC in everyday practice 
Mihovil Roglić (Zagreb, Croatia), Filip Popović, Marina Labor, Sonja Badovinac, Marta Koršić, Marko Jakopović, Zoran Janevski, Josip Joachim Grab

PA2222 The efficacy of induction chemoradiotherapy followed by surgery in stage IIIA-proven N2 NSCLC and the influence of lymph node downstage on the incidence of postoperative recurrence 
Akiho Tateishi (Chiba (Kamogawa), Japan), Masafumi Misawa, Hiroaki Nomori, Masahiro Nemoto, Ryuta Tsuzuki, Ayumu Otsuki, Kei Nakashima, Yu Oyama, Hiroshi Sugimura, Kazufusa Shoji, Masahiro Aoshima

PA2223 The efficacy and safety of induction chemoradiotherapy (ICRT) followed by surgery in stage III NSCLC patients (pts) with T3/4-adjacent organ invasion involved (AOI): A single-center retrospective observational study. 
Masahiro Nemoto (Chiba, Japan), Masafumi Misawa, Hiroaki Nomori, Akiho Tateishi, Ryuta Tsuzuki, Ayumu Otsuki, Kei Nakashima, Yu Oyama, Hiroshi Sugimura, Kazufusa Shoji, Masahiro Aoshima

PA2224 Survival impact of surgery in the treatment of stage IIIB-IVA non-small cell lung cancer 
Seung Hun Jang (Anyang, Republic of Korea), Sojong Park, Chang Youl Lee, Ji Young Park, Joo-Hee Kim, Sunghoon Park, Yong Il Hyang, Ki-Suck Jung

PA2225 Changes of diffusing capacity after neoadjuvant concurrent chemoradiotherapy: implication on postoperative pulmonary complications in non-small cell lung cancer patients 
sumin shin (seoul, Republic of Korea), Yong Soo Choi, Jae Jun Jung, Junjoon Im, Hye Kyeong Park, Jong Ho Cho, Hong Kwan Kim, Jhingook Kim, Jae Il Zo, Young Mog Shim, Ho Yun Lee, Hye Yun Park

PA2226 MONITORING IMMUNODYNAMICS IN IMMUNE CHECKPOINT INHIBITOR THERAPY FOR STAGE IIIIB/IV NON-SMALL CELL LUNG CANCER 
Jani Sofia Almeida (Coimbra, Portugal), Daniela Bento, Patrícia Couceiro, Vera Alves, Manuel Santos-Rosa, Fernando José Barata, Paulo Rodrigues Santos, Ana Maria Ferreira Rodrigues Figueiredo

PA2227 A modified ILD-GAP index for patients with non-small cell lung cancer and interstitial lung disease 
Haruki Kobayashi (Shizuoka, Japan), Tateaki Naito, Shota Omori, Kazuhisa Nakashima, Kazushige Wakuda, Akira Ono, Hirotosugu Kenmotsu, Haruyasu Murakami, Masahiro Endo, Toshiaki Takahashi

PA2228 Management of concomitant COPD in patients with lung cancer 
Magnus Gottlieb (København, Denmark), Kristoffer Marsaa, Anders Mellemgaard, Nina Skalvan Godtfredsen

PA2229 Sleep disorders breathing and nocturnal hypoxemia are associated with an increased risk of lung cancer. 
Luis Miguel Seijo Maceiras (Madrid, Spain), Maria Teresa Perez Warnischer, Luis Fernando Giraldo-Cadavid, Henry Oliveros, Elena Cabezas, Ferranda Troncoso, Teresa Gómez, Rosario Melchor, Erwin Javier Pinillos, Abdal El Hachem, Carolina Gotera, Paula Rodriguez, Nicolás González-Mangado, Germán Pérez-Barba
PA2230 Prevalence of pleuroparenchymal fibroelastosis (PPFE): A retrospective single-centre case study
Silvana Geleff (Vienna, Austria), Jasmin Gmeiner, Peter Jaksch, Helmut Prosch

PA2231 Clinical courses of asymptomatic patients with mild idiopathic pleuroparenchymal fibroelastosis
Mikio Toyoshima (Hamamatsu, Japan), Atsuki Fukada, Daisuke Akahori, Takafumi Suda

PA2232 Traction bronchiectasis and platythorax on computed tomography are determinants of progression and mortality in pleuro-parenchymal fibroelastosis
Felix Chua (London, United Kingdom), Peter George, Darius Armstrong-James, Anand Devaraj, Elizabeth Renzoni, Toby Maher, Athol Wells, Ilaria Pulzato, Phillip Molyneaux, Maria Kokosi, Vasilis Kouranos, George Margaritopoulos, Sujal Desai

PA2233 Multidisciplinary team dedicated to suspected heritable pulmonary fibrosis
Raphaël Borie (Paris, France), Caroline Kannengiesser, Serge Amselem, Olivier Brugiere, Diane Bouvry, Annick Clement, Vincent Cottin, Philippe Dieude, Clairelyne Dupin, Ralph Epaud, Laurent Gouya, Pascale Fanen, Flore Sicre De Fontbrune, Lidwine Wemeau-Stervinou, Nadia Nathan, Bruno Creisti

PA2234 Mid-term clinical course of the three Japanese SFTPC mutated familial interstitial pneumonia patients.
Hiroyuki Ito (Nagasaki, Japan), Hiroshi Nakaoka, Yoshiro Yamashita, Masahiro Takaki, Takeshi Tanaka, Masayuki Ishida, Konosuke Morimoto

PA2235 Functional assessment of newly identified SFTPA1 and SFTPA2 mutations in patients with idiopathic interstitial pneumonia (IIP) and lung cancer

PA2236 COPA syndrome restricted to life-threatening alveolar hemorrhages: clinical, pathological, molecular and biological characterization
Nadia Nathan (Paris, France), Marie Legendre, Serge Amselem, Annick Clement, Emilie Filhol-Blin, Nicolas Richard, Sylvie Roulaud, Michael Fayon, Gillian I Rice, Darragh Duffy, Vincent Bondet, Aurore Coulomb L’Hermine, Benedicte Neven, Marie-Louise Fremond, Yanick J Crow

PA2237 Down syndrome and pulmonary hemosiderosis: an under-recognized association
AURELIA ALIMI (Saint-Mandé, France), Jessica Taytard, Rola Abou Taam, Véronique Houdouin, Aude Forgeron, Marc Lubrano Lavadera, Pierrick Cros, Isabelle Gibertini, Jocelyne Derelle, Antoine Deschildre, Caroline Thumerele, Ralph Epaud, Philippe Reix, Michael Fayon, Sylvie Roulaud, Françoise Troussier, Marie-Catherine Renoux, Jacques De Blie, Sophie Leyronnas, Guillaume Thouvenin, Caroline Perisson, Aimé Ravel, Annick Clement, Harriet Corvol, Nadia Nathan

PA2238 Exogenous lipoid pneumonia in African children: a mixed-methods case series
Diana Marangu (Nairobi, Kenya), Komala Pillay, Ebrahim Banderker, Aneesa Vanker, Diane Gray, Marco Zampoli

PA2239 Alveolar hemorrhage syndrome in children
Anna Bogorad (Moscow, Russian Federation), Yuri Mizernitsky, Nadejda Rosinova, Natalia Lev, Ludmila Sokolova, Svetlana Djakova, Irina Zorina, Margarita Kostiuuchenko

PA2240 Effectiveness of inhibitor mTOR in patients with lymphangioleiomyomatosis.
Lubov N, Novikova (St. Petersburg, Russian Federation), Mikhail Ilkovich, Dali Dzadzua, Olga Baranova, Mariya Vasilyeva

PA2241 Pneumothorax in pulmonary langerhans cell histiocytosis (PLCH)

PA2242 Cytokine profiling in Pulmonary Langerhans Cell Histiocytosis: novel insights into pathogenesis.

PA2243 Pleural effusion in patients with IgG4-related disease: new insights from a case series
Ori Wand (Kfar Sava, Israel), Osnat Moreh Rahav, Osnat Shtraichman, Mordechai Kramer

PA2244 Drug induced interstitial lung disease: a systematic review
Sarah Skeoch (Manchester (Greater Manchester), United Kingdom), Nicholas Weatherly, Andrew Swift, Alexander Oldroyd, Chris Johns, Conal Hayton, Allesandro Giollio, James Wild, John Waterton, Maya Buch, Kim Linton, Ian Bruce, Colm Leonard, Bianchi Stephen, Nazia Chaudhuri

PA2245 Unclassifiable interstitial lung disease: a distinct entity with heterogeneous progression
Mohunmad Nasser (Bron, France), Pierre Rigaud, Kais Ahmad, Julie Traclet, Vincent Cottin
### PA2246
**Pulmonary Lymphangiomatosis – insights into an ultra-rare disease**
Nilab Sarmand (Heidelberg, Germany), Stella Piel, Eva Brunmener, Julia Waelscher, Markus Polke, Arne Warth, Claus Peter Heussel, Monika Eichinger, Felix Lasistschka, Benjamin Hoegerle, Lutz Frankenstein, Heike Zabeck, Stefan Rieken, Felix Herth, Michael Kreuter

### Session 255
**Poster discussion: New diagnostic tools for sleep and breathing and healthcare provision options**

**Disease(s)**: Sleep and breathing disorders

**Method(s)**:
- Physiology
- General respiratory patient care
- Public health

**Chairs**: Sebastian Ott (Bern, Switzerland), Winfried J. Randerath (Solingen, Germany)

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<td>Deep learning for scoring sleep based on cardiorespiratory signals as compared to auto and multiple manual sleep scorings based on neurological signals</td>
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<td>PA2249</td>
<td>Detection and characterization of apneas using tracheal sound and suprasternal pressure signals</td>
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**PA2247**

Jade Vanbuis (Angers, France), Abdelkebir Sabil, Guillaume Baffet, Mathieu Feuilloy, Nicole Meslier, Frédéric Gagnadoux

**PA2248**

Peter Anderer (Wien, Austria), Pedro Fonseca, Marco Ross, Arnaud Moreau, Andreas Cerny, Xavier Aubert, Mareike Klee

**PA2249**

Thomas Penzel (Berlin, Germany), Abdelkebir Sabil, Alexandra Günther, Martin Glos, Christoph Schöbel, Ingo Fietze

**PA2250**

Yong Zhou (Hangzhou (Zhejiang), China), Keijing Ying, Enguo Chen, Guangyue Qin, Degui Shu, Jianjun Wang

**PA2251**

Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Norbert Anduleit, Karin Pietruska, Matthias Schwaibold, Winfried J. Randerath

**PA2252**

Vanessa Bironneau (Angers, France), Frédéric Gagnadoux, Pierre Ingrand, Sandrine Pontier, Carmen Iamandi, Lorent Portel, Francis Martin, Anne Mallart, Lionel Lerousseau, Didier Alfandary, Virginie Levrat, Florence Portier, Renaud Tamisier, Frédéric Goutorbe, Claudio Rabee, François Codron, Guy Auregan, Magalie Mercy, Valérie Attali, Franck Soyez, Claire Launois, Didier Recart, Marie-Françoise Vecchierini, Jean-Claude Meurice

**PA2253**

Adam Benjafied (San Diego, United States of America), Atul Malhotra, Kate Valentine, Dongquan Lui, Yang Yan, Peter Cistulli, Holger Woehrle, Carlos Nunez, Jeff Armitstead, Jean-Louis Pepin

**PA2254**

Marie-caroline Rotty (montpellier, France), Marie-caroline Rotty, Jean-Pierre Mallet, Carey M. Suehs, Christian Martinez, Arnaud Bourdin, Nicolas Molinari, Dany Jaffuel

**PA2255**

Shuo Liu (Ivy Sur Seine, France), Shuo Liu, Yann Retory, Amelie Sagniez, Sebastien Hardy, Francois Cottin, Gabriel Roisman, Michel Petitjean

**PA2256**

Ludger Grote (Göteborg, Sweden), Sven Svedmyr, Kristina Andelid, Ding Zou, Lena Engelmark, Jan Hedner

**PA2257**

Heather Engleman (Edinburgh (Edinburgh), United Kingdom), Christy Stitt, Lauren Creswick, Nuno Cachada, Matthew Thomas, Jonathan Leahy, Sarah Martin, Neena Derashri, Tom Kelly

**PA2258**

Vera Marcela Lugo Arrúa (Barcelona, Spain), Onintza Garmandia, Monique Suarez, Marta Torres, Concepción Ruiz, Ramón Farré, Josep Maria Montserrat

**PA2259**

Mª Angeles Sanchez Quiruga (Plasencia, Spain), Jaime Corral Penafiel, Carmen Carmona Bernal, Maria Isabel Asensio Cruz, Marta Cabello, Mª Angeles Martinez Martinez, Carlos Javier Egea Santaoallala, Estrella Ordax, Ferran Barbe, Juan Fernando Masa Jimenez

**PA2260**

Adam Benjafied (San Diego, United States of America), Dongquan Lui, Haixiang Shi, Holger Woehrle, Peter Cistulli, Jeff Armitstead, Carlos Nunez, Jean-Louis Pepin, Atul Malhotra
Clinical and cost-effectiveness of a mandibular advancement device versus continuous positive airway pressure in moderate obstructive sleep apnea: a randomized controlled trial
Grietje E. De Vries (Groningen, Netherlands), Aarnoud Hoekema, Karin M. Vermeulen, Johannes Claessen, Wouter Jacobs, Jan Van Der Maten, Han Van Der Hoeven, Boudewijn Stegenga, Huib Kerstijns, Peter Wijkstra

Impact of lifestyle modification as part of a sleep service on CPAP requirement
Kay Roy (St Albans (Hertfordshire), United Kingdom), Glenda Esmond, David Evans

Randomized trial of oropharyngeal exercises plus incentive spirometry on patients with mild to moderate obstructive sleep apnea syndrome
Prapun Kittivoravitkul (Bangkok, Thailand), Chonlada Laohaviranit, Sorakai Wongpaiboonwatanan

Treatment of sleep-disordered breathing with positional therapy: long-term results
Jolien Beyers (Edegem, Belgium), Marijke Dieltjens, Chloé Kastoer, An Boudewyns, Ilse De Volder, Ann Van Gastel, Johan A Verbraecken, Willfried A De Backer, Marc J Braem, Paul H Van De Heyning, Olivier M Vanderveken

Late Breaking Abstract - Dysanapsis is a major determinant of airflow limitation among older adults
Benjamin Smith (New York, United States of America), Andrea Benedetti, Norrina B. Allen, Alain Bertoni, Markus Hilpert, David R. Jacobs Jr., Joel D. Kaufman, Ching-Long Lin, Erin D. Michos, Elizabeth Oelsner, Karol E. Watson, Eric A. Hoffman, R. Graham Barr

Late Breaking Abstract - The population attributable risks (PAR) for chronic airflow obstruction (CAO) in 40 BOLD study centres worldwide.
Peter Burney (London, United Kingdom), Jaymini Patel, Cosetta Minelli

Incidence of airflow obstruction over 20 years in Europe
Simone Accordini (Verona (VR), Italy), Lucia Calciano, Alessandro Marcon, Giancarlo Pesce, Josep Antó, Anna Beckmeyer-Borowko, Angelo Corsico, Medea Imboden, Christr Janson, Dirk Keidel, Francesca Locatelli, Cecilia Svanes, Deborah Jarvis, Nicole Probst-Hensch, Cosetta Minelli

Results from the Argentinean AATD Screening Program 2010-2017
Victoria Lorenzon (Ciudad Autónoma Buenos Aires, Argentina), Soledad Saez, Mariano Fernandez Acquier, Guillermo Menga, Martin Fernandez, Jose Oyhamburu, Patricia Sorroche

The impact of comorbidities on mortality in COPD, report from the OLIN COPD study.
Sami Sawalha (Boden, Sweden), Linnea Hedman, Helena Backman, Eva Rönmark, Bo Lundbäck, Nikolai Stenfors, Anne Lindberg

Long-acting inhalation treatment and the risk of urinary tract infection – a symmetry analysis
Daniel Pilsgaard Henriksen (Odense C, Denmark), Christian B. Laursen, Jane Winkel Sterndorf, Jesper RøMhild Davidsen, Jesper Hallas

The effect of inhaler switching on asthma and COPD patients
Chloe Bloom (London, United Kingdom), Ian Douglas, Liam Smeeth, Jenni Quint

Comparing objective inhaler use among COPD and Asthma populations
Heather Hoch (Denver, United States of America), Leanne Kaye, William Anderson, Rahul Gondalia, Meredith Barrett, Michael Tuffli, David Van Sickle, Stanley Szetler, David Stempel

Persistence to COPD therapies and impact on exacerbations: a French claims data study
Faustine Dolon (Lyon, France), Gilles Devouassoux, Manon Belhassen, Gaelle Nachbaur, Camille Correia Da Silva, Lynda Sail, Christos Chouaid, Eric Van Ganse

The impact of patient characteristics on the Minimal Clinically Important Difference of COPD health status tools
Harja J. Mol-Alma (Groningen, Netherlands), Corina De Jong, Danjel Jelusic, Michael Wittmann, Michael Schuler, Robbert Sanderman, Konrad Schultz, Janwillem Kocks, Thys Van Der Molen

Follow-up desaturation in 6 minute walk tests and lung function decline in COPD patients
Marie Johanne Waatevik (Bergen, Norway), Tomas Eagan, Francisco Real, Jon Hardie, Per Bakke, Bente Frisk, Ane Johannessen
Impact of morning symptoms on 18-mo COPD outcomes across psychological distress status: a population-based study
Gregory Moullec (Montréal (QC), Canada), Wan Tan, Pei Zhi Li, Norbert Feigler, Jean Bourbeau - On Behalf Of The Cancold Group

Pneumonia vs non-pneumonia in COPD exacerbations – different risks?
Gunnar Reksten Husebø (Fana, Norway), Rune Grønseth, Sverre Lehmann, Birger Lærum, Tomas Mikal Eagan

Association between type 2 diabetes, prediabetes and lung function: Results from the KORA cohort
Stefan Karrasch (Neuherberg, Germany), Vanessa Jäger, Barbara Thorand, Cornelia Huth, Kathrin Kahnert, Wolfgang Rathmann, Annette Peters, Dennis Nowak, Rudolf A. Jörres, Holger Schulz

Blood cell counts and C-reactive protein in relation to lung function in NHANES 2007-2010
Elisabet Nerpin (Falun, Sweden), Fonseca A JoãO, Tiago Jacinto , Kjell Alving, Christer Jansson, Andrei Malinovschi

Low dehydroepiandrosterone sulfate (DHEA-S) is associated with worse lung function in women.
Giancarlo Pesce (Paris, France), Kai Triebner, Diana Van Der Plaat, Dominque Courbon, Alessandro Marcon, Simone Accordini, Josep Anto, Sandra Dorado-Arenas, Jose Gullon, Jose Sanchez-Ramos, Isabelle Pin, bòrarinn Gislason, Kjell Torrn, Bertil Forsberg, Eva Lindberg, Elizabeth Zemp, Rain Jogi, Szymal Dharmage, Nicole Probst, Deborah Jarvis, Judith Garcia-Aymerich, Francisco Gomez-Real, Benedicte Leynaert

Nontuberculous mycobacterial disease within UK primary care, 2006-2016
Eleanor Axson (London, United Kingdom), Chloe Bloom, Marko Obradovic, Roald Van Der Laan, Jennifer Quint

Sex differences in bronchiectasis patient characteristics: an analysis of the EMBARC cohort

No Room  Session 260  12:30 - 17:00
Game Zone: GAME ZONE - SESSION 4

Ultrasound
Cristina Avram (Manchester (Greater Manchester), United Kingdom), Sofia Romani (Roma (RM), Italy), 2289
Angela Lopez Bauza (, Spain)

Interventional Bronchoscopy
Michelle Andrea Espinoza Solano (Sevilla, Spain) 2290

TP-01  Session 262  12:50 - 14:40
Thematic poster: Critically ill patients: prognostic factors and biomarkers
Disease(s) : Respiratory critical care, Respiratory infections, Airway diseases, Respiratory infections
Method(s) : Physiology, Respiratory patient care, Surgery, Respiratory intensive care
Chairs : Anna Fleur Schreiber (Torino (TO), Italy), Claudia Crimi (Catania (CT), Italy), Miquel Ferrer Monreal (Barcelona, Spain), Chair to be confirmed

Short and long-term prognosis of elderly patients (pts) subjected to invasive mechanical ventilation (IMV) in the intensive care unit (ICU)
Pau Ines Pedro (Odivelas, Portugal), Rui Gomes, Lucinda Oliveira, Antero Fernandes

Quality of life before intensive care unit admission and its influence on mortality: Preliminary results
Ezgi Özyilmaz (Adana, Turkey), Ozlem Ozkan Kuscu, Gulsah Orhan, Emre Karakoc, Gulsah Seydaoglu, Rengin Guzel

Early identification of patients at risk for acute respiratory distress syndrome among severe pneumonia: a retrospective cohort study
Jian Luo (Chengdu (Sichuan), China), Jian Luo (Chongqing (Chongqing), China), He Yu, Yuehong Hu, Dan Liu, Yiwei Wang, Maoyun Wang, Binmiao Liang, Zongan Liang

Delirium as a predictor of high flow nasal cannula failure in patients with acute respiratory failure
Ryosuke Imai (Tokyo, Japan), Ryosuke Tsugitomi, Torahiko Jinta, Ui Yamada, Kazuhiro Aoki, Tomohide Tamura

Factors affecting success of high flow oxygen therapy in acute hypoxemic respiratory failure
Emel Eryüksel (Istanbul, Turkey), Huseyin Arikan, Umut Kasapoglu, Erdem Yalcinkaya, Aysen Erer, Sehnaz Olgun Yildizeli, Sait Karakurt

Predicting factors for the failure of high flow nasal cannula therapy in patients with acute respiratory failure
Seung Hoon Kim (Suwon, Republic of Korea), Chi Hong Kim, Shin Young Kim, So Hyang Song, Sung Kyoung Kim
Implementation of educational measure for adjustment of target saturation in patients of intensive care unit: cross-sectional study
Aline Heidemann (Campinas, Brazil), Bianca Ferrari, Gabriela Nahas, Lidiane Souza, Rodrigo Tonella, Desanka Dragosavac, Luciana Figueiredo, Erica Gastaldi

Impact of early antibiotic therapy (EAT) on outcome of patients with sepsis at the emergency room of National Kidney and Transplant Institute
Irene Rosellen Tan (Manila, Philippines), Myrna Mendoza

A retrospective observational study of predictive correlation of pre-operative respiratory status with post-operative course (hospital stay, ICU & assisted ventilation).
Bharat Toshniwal (Nanded (Maharashtra), India), Gauri Godbole, Vipin Aggarwal, Hardik Patel

Peripheral venous blood gas analysis versus arterial blood gas analysis for the diagnosis of respiratory failure and metabolic disturbance in adults.
Anthony Byrne (Sydney (NSW), Australia), Michael Bennett, Rebecca Symons, Robindro Chaterji, Nathan Pace, Paul Thomas

Increased bronchoalveolar lavage fluid peroxiredoxin 6 levels in acute respiratory distress syndrome
Dong Yang (Shanghai, China), Xiaocen Wang, Jie Liu, Chen Bao, Yuanlin Song

eNAMPT as a novel diagnostic and prognostic biomarker in critically ill septic patients
Irene Karampela (Athens, Greece), Evangelia Kandri, Gerasimos-Socrates Christodoulou, Evangelia Chrysanthsopoulou, George Skyllas, George Antonakos, Evangelos Voyatzakis, Apostolos Armaganidis, Maria Dalamaga

Resistin may predict severity and mortality in critically ill septic patients
Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulou, Evangelia Kandri, Evangelia Chrysanthsopoulou, George Skyllas, George Antonakos, Evangelos Voyatzakis, Apostolos Armaganidis, Maria Dalamaga

Circulating eNAMPT and resistin as emerging biomarkers in sepsis
Irene Karampela (Athens, Greece), Evangelia Kandri, Gerasimos-Socrates Christodoulou, George Skyllas, Evangelia Chrysanthsopoulou, George Antonakos, Evangelos Voyatzakis, Apostolos Armaganidis, Maria Dalamaga

Effect of body mass index on B-type natriuretic peptide levels in critically ill patients
Jae Joon Hwang (Seoul, Republic of Korea), Seoung Woo Han, Yong Suk Jo, Kyung Won Kim, Cheon Woong Choi

Comparation of acid-base interpretation by Henderson-Hasselbach, base excess and Stewart methods using SMART MEDIC application
Yusup Subagio Sutanto (Surakarta, Indonesia), Dian Apriliana, Reviono Reviono, Jatu Aphridasari, Dewi Nurul Makhabah, Sukirman Siswanto

Procalcitonin and clinical pulmonary infection score as predictors of stroke associated pneumonia.
Alaa Metwaly (Zagazig, Egypt), Takwa Hussieny, Hanaa Hosny

Follow-up of the TIE index can predict success at prolonged weaning
Leonardo Souza (Rio De Janeiro (RJ), Brazil), Bruno Guimarães, Fernando Guimarães, Jocemir Lugon

**TP-02 Session 263 12:50 - 14:40**

**Thematic poster: Preclinical and clinical studies of critical illness**

**Disease(s):** Respiratory critical care, Respiratory infections, Airway diseases, Thoracic oncology, Pulmonary vascular diseases

**Method(s):** Surgery, Physiology, General respiratory patient care, Public health, Imaging, Cell and molecular biology, Respiratory intensive care

**Chairs:** Antonio Artigas (Sabadell (Barcelona), Spain), Kristian Brat (Brno, Czech Republic), Raquel Guillamat-Prats (Barcelona, Spain), Marta Camprubi-Rimblass (Molins de Rei, Spain)

**PA2310 Late Breaking Abstract - Effect of Hypercapnia in human primary culture of alveolar cells in vitro**
Marta Camprubi-Rimblass (Molins de Rei, Spain), Josep Bringue, Luis Morales, Neus Tantinya, Antonio Artigas

**PA2311 Effect of a newly developed cytokine adsorption column in a rat model of acute lung injury.**
Yuhei Yoshida (Sagamihara, Japan), Miwako Kanemaru, Kozue Kobayashi, Kenichi Kokubo, Hirosuke Kobayashi

**PA2312 Antithrombin plus alpha-1 protease inhibitor does not affect pulmonary inflammation and coagulation in a ‘double-hit’ lung injury model**
Jenny Juschten (Amsterdam, Netherlands), Sarah Anna Ingelse, Matthias Adrie Willem Maas, Armand Ro Jo Girbes, Nicole Pi Juffermans, Marcus Ju Schultz, Pieter Roel Tuinman
PA2313 Hypoxia aggravates failure of autoresuscitation in a rat model of LPS-induced endotoxemia. 
Zhanna Donina (St. Petersburg, Russian Federation)

PA2314 Breathing disorders and survival during inflammation associated with severely hypoxia depends from prostaglandin-mediated pathway. 
Elizaveta Baranova (St. Petersburg, Russian Federation)

PA2315 The use of aerosolized prostacyclins is associated with improvements in gas-exchange but no difference in hemodynamics in critically-ill patients 
Roberto Bernardo (Oklahoma City, United States of America), Huzaifa Jaliawala, Brent Brown

PA2316 Improvement of ventilation-induced diaphragm dysfunction through toll-like receptor 4 and nuclear factor-?B in a murine sepsis model 
Li-Fu Li (Kweishan (Taoyuan), Taiwan), Chih-Hao Chang, Li-Chung Chiu

PA2317 Nebulizer Location and spontaneous breathing on Aerosol Delivery during Airway Pressure Release Ventilation in Adult Lung Model 
Huqing Ge (Hangzhou (Zhejiang), China), Jimei Wang

PA2318 Use of I-Gel facilitates percutaneous dilatational tracheostomy in the ICU. A preliminary report. 
Aniello Di Nicola (Pompei (NA), Italy), Maria José Sucre

PA2319 Effect of tidal volume on fugitive emissions during mechanical ventilation 
Gavin Bennett (Galway, Ireland), Ciarrai O'Toole, Mary Joyce, James Mcgrath, Miriam Byrne, Ronan Macloughlin

PA2320 Computational modelling of oxygen insufflation during apnoea in obesity. 
Mariana Laviola (Nottingham, United Kingdom), Anup Das, Declan G. Bates, Jonathan G. Hardman

PA2321 Magnesium sulphate as an adjuvant therapy in critically ill infants and children presenting with wheezy chest in addition to standard treatment 
Yasmin Saied (Cairo, Egypt), Hala Hamdy, Hafez Bazarza, Hanan Rady, Sherif Elanwary

PA2322 Early corticosteroid in influenza pneumonia related acute respiratory distress syndrome treated with extracorporeal membrane oxygenation 
Yu-San Chien (Taipei City, Taiwan), Chen-Yen Chien, Jiun-Yi Li

PA2324 Bacteriological structure of lower respiratory tract infections in ICU patients of a single tertiary care medical center in Central Kazakhstan 
Aigerim Yergaliyeva (Astana, Kazakhstan), Nelya Bisenova

PA2325 Clinical outcomes of the patients with multidrug-resistant Acinetobacter baumannii pneumonia in critical care setting: A retrospective cohort study in Taiwan 
Pei-Fen Wu (Yunlin county, Taiwan), Yen-Fu Chen , Chi-Ying Lin

PA2326 The burden of respiratory infections caused by resistant bacteria and need for antibiotics stewardship program in Balochistan, Pakistan 
Muhammad Uyghur (Quetta, Pakistan)

PA2327 Pulmonary physician consultancy in emergency services in Turkey (PUPCEST) – a prospective multicenter study 

TP-03 Session 264 12:50 - 14:40

Thematic poster: Muscles and diaphragm, and quality improvement
Disease(s) : Respiratory critical care Airway diseases Interstitial lung disease Respiratory infections Respiratory infections
Method(s) : Transplantation Physiology Imaging General respiratory patient care Respiratory intensive care
Chairs : Alexandre Demoule (Paris, France), Christian Bruells (Aachen, Germany), Julien Guiot (Liège, Belgium), Christoph Fisser (Regensburg, Germany)

Different loads of inspiratory muscle training in mechanical ventilation weaning: randomized trial 
Ligia Roceto Ratti (Valinhos, Brazil), Rodrigo Tonella, Luciana Figueiredo, Ivete Saad, Antonio Falcão, Pedro Paulo Martins

Analysis of the involvement of respiratory muscles through the TIE index in patients in ventilatory weaning with surface electromyography 
Helson Costa (Rio De Janeiro (RJ), Brazil), Leonardo Souza, Arthur Neto, Marcos David Godoy, Jocemir Lugon
Impact of diaphragmatic mobility in lung aeration loss in critically ill patients
Caroline Gomes Mól (São Paulo, Brazil), Caroline Gomes Mól, Monize Karla Alves Aquino, Renato Batista Reis, Catherine Cely Oliveira, Natály Gomes Benites De Camargo, Rita Ferreira De Souza, Clarice Tanaka

Use of a new protocol of the inspiratory muscle training can be the key to improve survival of patients under prolonged ventilation
Leonardo Souza (Rio De Janeiro (RJ), Brazil), Bruno Guimarães, Fernando Guimarães, Jocemir Lugu

Can you cross-train the inspiratory muscles by repetitive isometric neck flexion?
Wendy Darlene Reid (Toronto ON, Canada), Luana Melo, Masatoshi Hanada, Karl Zabjek

Clinical evidence for respiratory pump insufficiency predicts weaning failure
Friederike Sophie Magnet (Köln, Germany), Hannah Bleichroth, Sophie E. Huttmann, Jens Callegari, Sarah B. Schwarz, Claudia Schmoor, Wolfram Windsich, Jan H. Storre

Floor and ceiling effects of functional status and peripheral muscle strength assessment scales in non-intubated critically ill patients.
Shirley Campos (Recife (PE), Brazil), Maria Karoline Richtrmoc, Wagner Leite, Carlos Ramirez Gonzalez, Anielle Azevedo, Ananda Silva, Raisa Correia, Wilder Alencar, Caio Morais, Cyda Reinaux, Daniella Brandão, Maria Da Glória Rodrigues Machado, Armele Dornelas De Andrade

The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure
Fangbo Zhao (Changchun (Jilin), China), Shuang Whang, Hongjing Lin

Pressure support ventilation (PSV) mode vs. (PSV)mode + T-piece trial as a weaning modality in mechanically ventilated chronic obstructive pulmonary disease patients
Ahmed Metwally (Assuit, Egypt), Rafat El-Sokary, Hassan Abd-Latif, Ghada Ahmed

Effects of Hygrovent Gold versus conventional humidifiers on invasive ventilation efficiency
Anna Fleur Schreiber (Torino (TO), Italy), Piero Ceriana, Manuela Piran, Giuditta Bettinelli, Alberto Malovini, Roberto Colombo, Annalisa Carlucci

Alveolar recruitment improving oxygenation in Acute Respiratory Distress Syndrome: A prospective observational study
Ann Mary Jose (Manipal (Karnataka), India)

A new device to prevent unplanned endotracheal self-extubation in mechanically ventilated patients.
CHEN-CHUN LIN (Taipei City, Taiwan), Hsiu-Li Wu, Szu-Yin Chen

Comparison of pediatric patients managed in the pediatric intensive care unit and other intensive care units
Woo Ri Bae (Seoul, Democratic People's Republic of Korea), Beom Joon Kim, Kyung Hoon Kim, Hye Jin Lee, Jong-Seo Yoon

Clinical outcome of medical emergency team activation according to trigger time
Se Hee Lee (Seoul, Republic of Korea), Jin Won Huh, Sang Bum Hong, Chae Man Lim, Youn Suck Koh

Early noninvasive ventilation in patients with severe community acquired pneumonia with or without ARDS
Yordanka Yamakova (Sofia, Bulgaria), Rosen Petkov, Viktoria Ilieva, Miroslav Mihaylov, Borislav Velev, Ivelina Staneva

Quality Improvement: Implementing NEWS scores at morning board round to improve discussion of sick respiratory patients
Kamatamu Amanda Mbonye (London, United Kingdom), Abigail Slack, Helena Hansom, Aklak Choudhury

Beneficial, but justifiable yet? ECCO2-Removal
Coskun Ates (Edirne, Turkey), Funda Yilmaz, Onur Mert, Idris Kurt, Hunkar Aggul, Zeliha Ademoglu, Merih Reis, Serdar Efe, Volkan Inal

Accuracy of gas exchange measurements as predictors of early successful weaning among ICU patients of Philippine Heart Center: a Prospective Cohort Study
John Ray Galamay (Quezon City, Philippines), Teresita De Guia, Ma. Encarnita Blanco-Limpin

The complacency could be predictive of TDGE in postoperative cardiac surgery: Cross sectional study?
Aline Heidemann (Campinas, Brazil), Thais Bento, Claudineia Logato, Antonio Falcão, Orlando Petrucci, Luciana Figueiredo, Desanka Dragosavac

Stroke volume change after digoxin loading in septic shock patients with transient left ventricular systolic dysfunction.
Dong Hyun Lee (Busan, Republic of Korea), Jin-Heon Jeong, Bo Hyoung Kang, Soojung Um, Choonhee Son
Thematic poster: Non-invasive ventilation for acute respiratory failure

**Disease(s):** Respiratory critical care, Sleep and breathing disorders, Airway diseases, Pulmonary vascular diseases, Respiratory infections

**Method(s):** Surgery, Epidemiology, Public health, General respiratory patient care, Respiratory intensive care

**Chairs:** Lígia Helena Pires Vicente (Portimão, Portugal), Marcus Schultz (Amsterdam, Netherlands), Anne-Kathrin Brill (Bern, Switzerland), Himender Makker (London, United Kingdom)

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**PA2348**
Late Breaking Abstract - Severe pneumonia patients may could not benefit from antibiotic combination therapy and non-invasive ventilation (NIV), despite the advanced mode
BoXue Han (Beijing, China), Xiuli Chen, Lewen Gan, Shanxiang Lei, Zhen Sun, Peipei Du, Lei Sun, Lishun Yue

**PA2349**
Late Breaking Abstract - Home ventilators failure: a nation-wide cohort analysis.
Samuel Dolidon (Rouen, France), Boris Melloni, Jean Francois Chabot, Didier Forêt, Eva Tesnière, Antoine Barral, Dominique Leclerc, Johan Dupuis, Gilles Petit, Jean-François Muir, Antoine Cuvelier, Maxime Patout

**PA2350**
Predictors of duration of noninvasive ventilation in severe COPD exacerbation
Alexandru Tudor Steriade (Bucuresti, Romania), Shirin Johari, Nicoleta Filip, Cornelia Tudose, Miron Alexandru Bogdan, Dragos Bumbacea

**PA2351**
Non-invasive ventilation for acute respiratory failure in the elderly
Rodolfo Ferrari (Bologna (BO), Italy), Elena Martino, Giampaolo Bianchi, Daniela Agostinelli, Riccardo Voza, Marco Zoli, Mario CavaZZa

**PA2352**
Early predictors of success of Non-invasive ventilation in Acute Hypercapnic respiratory failure
UMESH G (Alappuzha (Kerala), India), L Sundararajan

**PA2353**
The rationality of the use of NIV in elderly patients with acute COPD exacerbation
Sava Pejkovska (Skopje, FYROM (Macedonia)), Dejan Dokie, Gorica Breshkovska, Biserka Kaeva, Smilko Jovanoski, Irina Angelovska, Angela Debreslioska

**PA2354**
Review of acute NIV outcomes over four years in a university hospital
Joanna Lovett (LONDON, United Kingdom), Nilani Murugusu, Adil Hasnain, Serena Tan, Terry O'Shaughnessy, Vladimir Macavei

**PA2355**
The effect of Post-acute domiciliary non-invasive ventilation (NIV) on hospital admissions and length of stay (LOS)
Alana Livesey (Birmingham (West Midlands), United Kingdom), Amy Oakes, Pearlene Antoine-Pitterson, Emma Gallagher, Biman Chakraborty, Rahul Mukherjee

**PA2356**
Ward-based Non-invasive ventilation (NIV) as Ceiling of Care in Acute Hypercapnic Respiratory Failure (AHRF)
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pearlene Antoine-Pitterson, Amy Oakes, Biman Chakraborty, Rahul Mukherjee

**PA2357**
Non-invasive ventilation in acute respiratory failure in a pulmonary ward: chronic obstructive pulmonary disease versus other indications
Denny Marques Rodrigues (Minde, Portugal), João Pedro Neiva Machado, José Costa, Teresa Costa

**PA2358**
Outcomes of noninvasive ventilation in immunosuppressed patients with acute respiratory failure due to pneumonia
Imren Nesil (Izmir, Turkey), Pervin Korkmaz Ekren, Feza Bacakoglu

**PA2359**
Outcomes of a co-ordinated MDT approach to the delivery of acute NIV
Robert Free (Leicester (Leicestershire), United Kingdom), Liam Curry, Clare Rossall, Liz Pulford, Irene Valero, Schnell D'Sa, Richard Walton, Thomas Crew, Gerrit Wolfmann, Rachael Evans

**PA2360**
Sleep quality during home noninvasive ventilation (NIV).
Jasmine Sutter (Caen, France), Raphaël Lukaszewicz, Julien Maris, Florence Portier, Adriana Portmann, Antoine Cuvelier, Maxime Patout

**PA2361**
The impact of late presentation of acidic hypercapnic respiratory failure in hospitalised COPD patients on outcome following non-invasive ventilation.
Samuel Trethewey (Birmingham (West Midlands), United Kingdom), Ross Edgar, Julien Morlet, Rahul Mukherjee, Alice Turner

**PA2362**
Assessment of Noninvasive Ventilation in COPD patients requiring Respiratory Critical Care
Kushal Chidgupkar (Solarpur (Maharashtra), India), Anita Anokar, Medha Bargaje, Ram Deoskar, Shivakumar Iyer

**PA2363**
Non invasive ventilation in elderly COPD with do not intubate order
Dejan Radovanovic (Milano (MI), Italy), Maurizio Rizzi, Francesca Frassanito, Andrea Airoldi, Andrea Cristiano, Silvia Vanni, Paolo Gaboardi, Pierachiile Santos
PA2364  Electrical impedance tomography in evaluating the effects of non-invasive ventilation in the post-operative cardiac surgery: randomized controlled clinical trial
Daniella Brandao (Recife (PE), Brazil), Alita De Novaes, Armêe Dormelas De Andrade, Shirley Campos, Norma Módolo, Christian Gonçalves, Caio Morais, Catarina Rattes, Wagner Leite, Wildberg Lima

PA2365  A dynamical model for patient-ventilator interactions during noninvasive ventilation
Emeline Fresnel (Saint Etienne du Rouvray, France), Adrien Kerfourn, Jean-François Muir, Maxime Patout, Antoine Cuvelier

PA2366  Evolving indications and demographics for domiciliary Non-Invasive Ventilation (NIV) at an acute hospital based NIV service
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pearlene Antoine-Pitterson, Amy Oakes, Pradeep Mallisetty, Alice Turner, Rahul Mukherjee

PA2367  Does adherence to domiciliary NIMV decrease the rate of subsequent hospitalizations and cost?
Burcu Arpinar Yigitbas (Istanbul, Turkey), Celal Satici, Mustafa Asim Demirkol, Gizem Koybasi, Ayse Filiz Kosar

TP-05  Session 266  12:50 - 14:40
Thematic poster: Non-invasive ventilation in chronic respiratory failure

Disease(s) : Respiratory critical care  Airway diseases  Sleep and breathing disorders
Method(s) : Epidemiology  Physiology  Respiratory intensive care  General respiratory patient care
Chairs : Patrick B. Murphy (Oxted (Surrey), United Kingdom), João Carlos Winck (Vila Nova de Gaia, Portugal), Maxime Patout (Mont-Saint Aignan, France), Dan Adler (Genève, Switzerland)

PA2368  Mouthpiece ventilation in COPD: an option for not-compliant patients
Anna Annunziata (Napoli (NA), Italy), Maurizia Lanza, Gianfranco Scotto Di Frega, Rosa Cauteruccio, Ilermando Meoli, Antonio Esquinas, Giuseppe Fiorentino

PA2369  A descriptive and cross-sectional multicentric study of long-term home non-invasive ventilation: adaptive servo-ventilation population
Chloé Cantero (Genève, Switzerland), Patrick Pasquina, Dan Adler, Alain Bigin Younossian, Maura Prella, Paola Gasche, Jean-Paul Janssens

PA2370  The NIVO Study: attitudes to ventilation following acute NIV.
Nicholas Lane (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Tom Hartley, Victoria Ferguson, John Steer, Stephen Bourke

PA2371  The minimal clinically important difference of the Severe Respiratory Insufficiency questionnaire.
Janine Kort (Groningen, Netherlands), Gerrie Bladder, Marieke Duiverman

PA2372  Skin integrity in domiciliary non-invasive ventilation: a clinical audit
Sarah Ewles (Southampton, United Kingdom), Sally Cozens, Peter R Worsley, Sean Ewings, Joy Conway

PA2373  Long-term outcomes of patients with chronic hypercapnic respiratory failure (CHRF) managed with home noninvasive ventilation (NIV)
Marcus Sim (Singapore, Singapore), Anthony Yee, Leong Chai Leow, Thun How Ong

PA2374  Epidemiology of Non-Invasive Domiciliary Ventilation in the southwest of Spain
Jacinto Hernandez Borge (Badajoz, Spain), Luis Miguel Sierra Murillo, Miguel Benitez-Cano Gamanosso, Koutar El Bouaibi Faiz, Maria Jose Antona Rodriguez, Maria Carmen Garcia Garcia, Francisca Lourdes Marquez Perez, Ana Maria CastañAr Jover, Pilar Cordero Montero

PA2375  Temporal trends in the initiation of domiciliary non-invasive ventilation (NIV)
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pearlene Antoine-Pitterson, Amy Oakes, Clare Williams, Biman Chakraborty, Rahul Mukherjee

PA2376  Noninvasive ventilation (NIV) adherence for chronic respiratory failure treatment
Gurvian Le Bouar (Franqueville-Saint-Pierre, France), Déborah Boyer, Elise Artaud-Macari, Luis Carlos Molano, Catherine Vlearoze, Antoine Cuvelier, Maxime Patout

PA2377  Inspired oxygen fraction during non-invasive ventilation: the influence of flow rates, masks, exhalation ports and ventilatory settings
Maud Hoofs (Zoetermeer, Netherlands), Rob Hagmeijer, Marieke L. Duiverman

PA2378  Noninvasive ventilation (NIV) related adverse events
Maxime Patout (Mont-Saint Aignan, France), Christian Caillard, Gregoire Jolly, Kinan El Hussein, Mathilde Le Brun, Marielle De Marchi, Julien Pierchon, Diane Gervereau, Mohamed-Zouhaier Gharsallaoui, Antoine Cuvelier
Do patients on NIV change their NIV use on nights when they have oximetry?
Paul Plant (Leeds (West Yorkshire), United Kingdom), V Yioe, A Khajuria, K Ward, R Angus, B Chakrabarti, N Duffy, R Parker, A Manuel

Overnight monitoring of lung mechanics and Tidal expiratory flow limitation (EFLT) by Forced Oscillation Technique (FOT) in Chronic Obstructive Pulmonary Disease (COPD) receiving non-invasive ventilation (NIV): the impact of sleep and posture
Ilaria Milesi (Milano (MI), Italy), Roberto Porta, Michele Vitacca, Simona Cacciatore, Rossella Trentin, Luca Barbano, Francesco Fanfulla, Raffaele Della

Use of nasal pillows in amiotrophic lateral sclerosis (ALS) patients with high non invasive ventilation (NIV) dependence
Luana Focaraccio (Torino (TO), Italy), Giulia Rovere, Roberta Di Tria, Renza Ambrosanio, Elisa Clivati, Sabrina Marchisio, Giuseppe Tabbia, Caterina Buca, Alessio Mattei

Home monitoring of transcutaneous PCO2 in children on long term ventilation.
Lucie Griffon (Paris, France), Lucie Griffon, Samira Touil, Annick Frapin, Sonia Khirani, Alessandro Amaddeo, Brigitte Faurox

PROGNOSTIC FACTORS FOR SUCCESSFUL ADHERENCE WITH NON-INVASIVE MECHANICAL VENTILATION THERAPY.
Sofia Jaurrieta Largo (Valladolid, Spain), Ignacio Lobato Astiárraga, Blanca De Vega Sánchez, María José Chourio Estaba, Ana María Andrés Porras, Ana Isabel García Onieva, Irene Alaejos Pascua, Maria Beatriz Cartón Sánchez, Isabel Ramos Cancelo, Carlos Disdier Vicente

Non-invasive ventilation in motor neurone disease patients attending the West of Scotland Long-Term Ventilation Unit (WoSLTVU)
Grace Murphy (G51 4TF, United Kingdom), Grace Murphy, Joanne Payne, Alison Clarke, George Gorrie, David Raeside, Scott Davidson

Role of Comorbidities and BMI on the Efficacy of Non Invasive Ventilation in COPD with Chronic Hypercapnia.
Angelo Petroianni (Roma (RM), Italy), Letizia D’Antoni, Jacopo Di Lorenzo, Fatim Zahra El Couhen, Francesca Oriolo, Elda Graziani

Security of removal long- term domiciliary oxygen therapy without indication.
Maria Jose Chourio Estaba , (Spain), Sofia Jaurrieta Largo, Ignacio Lobato Astiárraga, Blanca De Vega Sánchez

Pressure-controlled versus vs. volume-controlled ventilation in patients affected by amyotrophic lateral sclerosis (ALS).
Grazia Crescimanno (Palermo (PA), Italy), Maria Canino, Francesca Greco, Oreste Marrone

High-flow nasal cannula therapy has the effectiveness for acute respiratory failure including hypercapnic status:a single-centered retrospective study.
Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Yuki Nakamura, Osamu Hataji, Yuta Suzuki, Haruko Saiki, Kentarou Ito, Yoichi Nishii, Gabazza Esteban Cesar

Noninvasive ventilation compared to Albuterol in respiratory mechanics and lung function of asthmatics after bronchoprovocation. Randomized cross-over trial.
Evelim Gomes (São Paulo (SP), Brazil), Maisi David, Adriana Santos, Aldenice Magalhaes, Viviane Alves, Dirceu Costa

High flow nasal cannula: influence of gas type and flow rate on positive airway pressure and CO2 clearance in adult nasal airway replicas
Charles Moore (Edmonton (AB), Canada), Ira Katz, Marine Pichelin, Georges Caillibotte, Warren Finlay, Andrew Martin

An audit of Non-invasive ventilation (NIV) in practice and introduction of an integrated care pathway for the management of acute ventilatory failure in an Irish Hospital.
Ciara Gough (Dublin, Ireland), Catherine Mcgeoghegan, Deirdre Long, Dorothy Ryan
Clinical significance of episodic nocturnal hypercapnia and its treatment with non-invasive positive pressur
ventilation in patients with stable advanced chronic obstructive pulmonary disease
Takamasa Kitaigami (Osaka, Japan), Satoshi Marumo, Reina Haru, Aya Watanabe, Haruna Yamaki, Hiroshi Shima, Masahiro
Shirata, Daiki Inoue, Yuki Katayama, Ryo Itoh, Motonori Fukui

Survival and decision making for tracheotomy in ALS
Natalia Pascual Martinez (Cordoba, Spain), Silvia Martin Bueno, Ana Palomares Muriana, Francisca Montoro Ballesteros,
Nuria Feu Collado, Bernabe Jurado Gamez

Evaluation of Low Tidal Volume during General Anesthesia in Prone Position on Respiratory Functions
Mohamed Shahat Badawy (Luxor, Egypt), Ahmed El Saeed, Osama Hamdy, Ahmad Yousef, Marwa Hamed

Comparison between NIV and IMV in young people with neuromuscular diseases in age to transition to adult care.
Alessandro Onofri (Roma (RM), Italy), Martino Pavone, Elisabetta Verrillo, Maria Beatrice Chiarini Testa, Serena
Caggiiano, Virginia Mirra, Claudio Cherchi, Renato Cutrera

DIFFERENCES BETWEEN PATIENTS WITH INVASIVE, NON INVASIVE VENTILATION and BOTH
Ana Roca Noval (Madrid, Spain), Beatriz Aldave, Tamara Alonso Pérez, Marta Erro Iribarren, Pedro Landete, Enrique
Zamora García, Julio Ancochea Bermúdez

Comparative study between functional and endoscopic indicators for Percutaneous endoscopic gastrostomy (PEG) in
ALS.
Bebiana Da Conceição Fernandes Palheiros Conde (Vila real, Portugal), Maria Brandão, Sara Raimundo, Rafael Noya, Joao
Carlos Winck

Effect of nebuliser position on aerosol performance during high flow nasal therapy
Gavin Bennett (Galway, Ireland), Mary Joyce, Louise Sweeney, Ronan Macloughlin

Cough-augmentation techniques in patients with neuromuscular disease and non-invasive ventilation
Roberto Vera Uribe (Santiago, Chile), Rodrigo Torres-Castro, Luis Vasconcello, Marisol Barros-Poblete, Javiera Rosales- Fuente,
Gregory Villarroel, Raúl Valenzuela, Paola Pontoni, Rebeca Paiva R.

Percutaneous endoscopic gastrostomy insertion in neuromuscular disease patients on home mechanical ventilation
Angela Reddy (London, United Kingdom), Simon Anderson, Lindsay Arrandale, Jason Dunn, Philip Mariano, Patrick B.
Murphy, Ikram Nasr, Michelle Ramsay, Joerg Steier, Eui-Sik Suh, Huw Thomas, Nicholas Hart, Georgios Kaltisakas

Trigger asynchronies induced by the introduction of external gas into the circuit in non-invasive ventilation: a bench
study
Cristina Lalmolda Puyol (Barcelona, Spain), Roberto Larrosa, Manel Luján, Javier Sayas

High flow nasal cannula in patients not suitable for invasive ventilation – are we missing an opportunity for palliative
care?
Hazel Morrison (Bridgwater (Somerset), United Kingdom), Georgina Mynott, Robin Jones, Rebecca Hall, Jemima Robinson

Non-invasive ventilation as a first-line treatment for malaria patients with pulmonary dysfunction: A feature of
respiratory therapy.
Barbara Santana Davila Melo (Aracaju (SE), Brazil), Rita de Cassia Santa Barbara, Anselmo Costa E Silva, Leonardo
Figueiroa, Ana Pascoal, Jurema Real, Ernesto Antonio

High Flow nasal OXYgen therapy in high risk patients of hypoxia undergoing diagnostic BRONCHOScopy (HiFOXY-
BRONCHO): a prospective, randomised, controlled study
Yeonyung Park (Seongnam, Republic of Korea), Yeonkyung Park, Youlim Kim, Jisoo Park, Eun Sun Kim, Sang Hoon
Lee, Yeon Joo Lee, Jong Sun Park, Ho Il Yoon, Jae Ho Lee, Choon-Taek Lee, Young-Jae Cho

Efficacy of mechanical insufflation-exhalation therapy in patients with neuromuscular disease
Sagrario Mayoralas Alises (Colmenar Viejo (Madrid), Spain), A Castaño, A Hernandez Voth, N Pizarro, C Caneiras, S
Díaz-Lobato

UTILITY OF THE HIGH FLOW WITH NASAL CANNULA IN THE DECANULATION OF TRAQUEOTOMIZED PATIENTS DURING AN EPISODE OF ACUTE RESPIRATORY INSUFFICIENCY.
Salvador Diaz Lobato (Colmenar Viejo (Madrid), Spain), Sagrario Mayoralas Alises, Jose Manuel Carratalá Perales, Ana
Jaureguizar Oriol, Edwin Mercedes noboa, Francisco León Román
<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Airway diseases</th>
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<td>Method(s)</td>
<td>Imaging</td>
<td>Respiratory intensive care</td>
<td>General respiratory patient care</td>
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<td>Chairs</td>
<td>Christina M. Spengler (Zürich, Switzerland), Luiza Helena Degani-Costa (São Paulo (SP), Brazil), Joaquim Gea Guiral (Barcelona, Spain), Samuel Vergès (Grenoble, France)</td>
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### PA2408
**Defining and grading an obstructive ventilatory defect (OVD) in 2018**
Rim Kammoun (Sfax, Tunisia), Amani Sayhi, Ines Ghannouchi, Souhail Slama, Mohamed Moez Ben Sayah, Halima Ben Salem, Mohamed Ben Saad, Mohamed Salah Tlili, Helmi Ben Saad

### PA2409
**Dose omission to shorten methacholine challenge testing: clinical consequences and safety of the use of a "10% fall in FEVI" threshold**
Valérie Levesque (Montréal (QC), Canada), Claude Poirier, Bruno-Pierre Dube

### PA2410
**Armspan replacing height to reach spirometric reference values**
Nuno Filipe Teixeira China Pereira (Porto, Portugal), Aniel@sapo.Ptdaniel Vaz, Joana Gomes, Inês Ladeira, Ricardo Lima, Miguel Guimarães

### PA2411
**What is the proportion of patient with asthma, COPD and ILD who have normal auscultatory lung sounds?**
Sundeep Santosh Salvi (Pune (Maharashtra), India), Neerja Shastri, Shirikant Pawar, Sushma Jadhav, Vandana Das, Yogesh Thorat

### PA2412
**Comparison of GLI 2012 and NHANES III for diagnosing airway obstruction in Vietnamese patients at Ho Chi Minh City**
Tai Tran Quoc (Ho Chi Minh, Vietnam), Lan Le Thi Tuyet

### PA2413
**The Usefulness of Forced Oscillation Technique to assess lung functions in Patients with Lysosomal Storage Diseases**
Araf Alblooshi (Al-Ain, United Arab Emirates), Abdul-Kader Souid, Fatma Al Jasmi, Alison John (alison.john@nottingham.ac.uk / University of Nottingham,Nottingham), Stefan Offermanns (stefan.offermanns@mpi-bn.mpg.de / Max Planck Institute for Heart and Lung Research,Bad Nauheim), Gisli Jenkins (gisli.jenkins@nottingham.ac.uk / University of Nottingham,Nottingham)

### PA2414
**Non-invasive measurement of lung inhomogeneity in patients who suffered a primary spontaneous pneumothorax**
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Nick Smith, Nayia Petousi, Nick Talbot, Grant Ritchie, Najib Rahman, Peter Robbins

### PA2415
**Acoustic wave propagation in the tracheobronchial tree in healthy and asthmatic subjects**
Andrea Aliverti (Milan, Italy), Lorenzo Aliboni, Francesca Pennati, Thomas Royston

### PA2416
**Assessment of ventilatory mechanics in respiratory muscle weakness using structured light plethysmography**
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), James Stockley, Liam O'Reilly

### PA2417
**Validation of breathing frequency algorithms in impedance pneumography**
Carol Smyth (Salford (Lancashire), United Kingdom), John Dickinson, Samantha Winter

### PA2418
**Validation study of the AirGo™ device for continuous monitoring of respiratory function**
Andrea Antonelli (Canoe (CN), Italy), Alessia Stanzi, Federico Mazzia, Massimiliano Venturino, Paolo Noceti, Dario Guilizzoni, Andrea Aliverti, Giulio Melloni

### PA2419
**Baseline FeNO is an independent predictive marker of Exercise-Induced Bronchoconstriction (EIB)**
Matteo Bonini (London, United Kingdom), Jacopo Messina, Simone Petrarulo, Daniel Piamonti, Marcello Di Paolo, Marco Brunori, Paolo Palange, Omar Usmani

### PA2420
**Pilot data of the short-term effects of e-cigarette vaping on lung function**
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), James Stockley, Elizabeth Sapey, Simon Gompertz, Ross Edgar

### PA2421
**Alterations in oxygen consumption during acute exacerbations of COPD**
Alice Cottie (Sydney (NSW), Australia), Leigh Secombe, Cindy Thamrin, Gregory King, Matthew Peters, Claude Farah

### PA2422
**Effect of inhaled vaporized cannabis on dynamic airway function, breathlessness and exercise intolerance in adults with advanced COPD: A randomized controlled trial**
Sara Abdallah (Montreal (QC), Canada), Benjamin Smith, Mark Ware, Michelle Moore, Pei Zhi Li, Jean Bourbeau, Dennis Jensen

### PA2423
**Changes in lung function in a rodent model of diabetes mellitus**
Roberta Südy (Szeged, Hungary), Álmos Schranc, Bence Ballók, Jozsef Tolnai, Barna Babik, Ferenc Peták

### PA2424
**Impact of natural sleep, sedation and hypercapnia on physiological ventilation variability: an experimental study**
André dos Santos Rocha (Genève, Switzerland), Gergely H Fodor, Sam Bayat, Walid Habre
The effects of variable ventilation patterns in an animal model of ARDS
Gergely H. Fodor (Genève, Switzerland), Andre Dos Santos Rocha, Gergely Albu, Ferenc Petak, Sam Bayat, Walid Habre

Chest wall and pulmonary contributions to the total respiratory airway and tissue mechanics in rats: effects of altered lung volume
Ferenc Peták (Szeged, Hungary), Roberta Südy, Álmos Schranc, Bence Ballók, Barna Babik, Gergely Fodor, Walid Habre, József Tolnai

Assessment of shape factors and dead space indices by volumetric capnography in rats
József Tolnai (Szeged, Hungary), Roberta Südy, Barna Babik, Ferenc Peták

Thematic poster: The value of lung function testing in various pathophysiological conditions

Disease(s) :
- Airway diseases
- Respiratory infections
- Thoracic oncology
- Sleep and breathing disorders
- Pulmonary vascular diseases

Method(s) :
- Transplantation
- General respiratory patient care
- Imaging
- Physiology

Chairs :
Maurice Hayot (Montpellier Cedex 5, France), Vasileios Andrianopoulos (Schönau am Königissee, Germany), Georgios Kaltsakas (Athens, Greece), Roberto A. Rabinovich (Edinburgh (Scotland), United Kingdom)

Detection of late post stem cell transplantation lung function deterioration using simple spirometry.
Eyal Fuchs (Haifa, Israel), Emilia Hardak

Lung clearance index (LCI) as a sensitive marker of post-transplant bronchiolitis obliterans syndrome (BOS)
Madeleine Driskel (Manchester, United Kingdom), Alexander Horsley, Mohamed Al-Aloul

Pulmonary function and physical capacity in children with congenital heart disease
Roberto Acosta-Dighiero (Santiago, Chile), Rodrigo Torres-Castro, Iván Rodríguez-Núñez, Mercedes Guevara, Bernardita Lopetegui

Respiratory and Motor Phenotypes and Correlations with Diaphragm Function in Patients with Late-Onset Pompe Disease (LOPD)
Andrea Da Nobrega Cirino Nogueira (Fortaleza (CE), Brazil), Liégina Silveira Marinho, Renata Dos Santos Vasconcelos, Suzy Maria Montenegro Ponte, Nancy Delma Silva Vega Canjura Sousa, Juliete Vaz Ferreira, Patricia Carvalho Bezerra, Miguel Angelo Nobre E Sousa, Marcelo Alcantara Holanda

Prognostic value of lung membrane conductance in sickle cell disease
Antoine Beurnier (Nantes, France), Julie Gravelleau, Thierry Le Tourneau, Agathe Masseau, Bruno Degano, Bérangère Ricolleau, François-Xavier Blanc, Arnaud Chambellan

Mepolizumab improves small airway function in severe eosinophilic asthma
Leigh Secombe (Sydney (NSW), Australia), Peter Rogers, Nicola Reed, Tanya Badal, Cindy Thamrin, Greg King, Matthew Peters, Claude Farah

A new score to identify patients who need fitness to fly test
Giulia Spoletini (Leeds (West Yorkshire), United Kingdom), Akhil Sawant, Sue Watts, Mark Townson, Paul Whitaker, Ian Clifton, Tim Sutherland, Mark Elliott, Daniel Peckham

Can baseline lung function and arterial oxygenation predict air travel hypoxaemia in respiratory patients?
Ana Lutas (Lisboa, Portugal), Mónica Marques Grafino, Filipa Todo Bom, Maria Margarida Felizardo, Richard Staats, Marco Pereira, Teresa Pequito, Ana Ladeira, Joao Valenca, Sofia Furtado

The respiratory physiome: clustering based on a comprehensive lung function assessment in patients with COPD
Ingrid Augustin (Horn, Netherlands), Martijn A. Spruit, Sarah Houben-Wilke, Frits Franssen, Lowie Vandeput, Swetlana Gaffrin, Daniel Peckham

PREVALENCE OF ABNORMAL SPIROMETRIC RESULTS AMONG TEENAGERS: RESULTS FROM LUNG DEVELOPMENT PROJECT OF THE UNIVERSITY OF GRANADA
Pedro José Romero Palacios (Granada, Spain), Oliverio Ruiz Rodriguez, Alba Mateos Romero, Antonio Dueñas Ruiz, Elvira Ruiz Castellano, Bernardino Alazar Navarrete

The effect of 1-week treatment with permitted inhalation or prohibited oral doses of salbutamol on repeated sprint ability in healthy well-trained men and women
Kasper Eibye (København N, Denmark), Kasper Bengtsen, Søren Jessen, Vibeke Baucker, Glenn Jacobson, Morten Hostrup

Influence of an ultraendurance event on lung heath
Courtney M. Wheatley (Scottsdale, United States of America), Glenn Stewart, Caitlin Fermoyle, Brian Ziegler, Bruce Johnson
PA2441 Influence of ultra-endurance exercise on alveolar-capillary recruitment and lung diffusion
Glenn Stewart (Rochester, United States of America), Caitlin Fermoyle, Courtney Wheatley, Briana Ziegler, Bruce Johnson

PA2442 Prevalence of Late-Onset Pompe Disease in Portuguese Patients with Diaphragmatic Paralysis: The DIPPER Study
Maria José Araújo Cunha Guimarães (Palmeira – Stª Tirso, Portugal), JoãO Winck, Bebiana Conde, Alexandra Mineiro, Margarida Raposo, Joaquim Moita

PA2443 Comparison of mobility, shortening velocity and diaphragmatic thickness between pre-term and term infant: a pilot study
Daniella Brandao (Recife (PE), Brazil), Fernanda Silva, Helga De Souza, Rayane Nunes, Paulo Magalhaes, Leticia Melo, Armele Dornelas De Andrade, Cyda Reinaux

PA2444 Lung synchrony in different body positions in unilateral diaphragm paralysis
Maya Caleffi Pereira (Campinas, Brazil), Vinícius Iamonti, Jeferson Ferreira, Natália Lima, Flavia Badaro, Pedro Caruso, Carlos Carvalho, André Albuquerque

PA2445 The effect of the abdominal wall on the diaphragmatic mobility and respiratory function in young healthy subjects
Monize Karla Alves Aquino (São Paulo, Brazil), Caroline Gomes Mól, Catherine Čely Oliveira, Renato Batista Reis, Clarice Tanaka

PA2446 Diaphragm in the role of esophageal sphincter and possibilities of treatment of esophageal reflux disease using physiotherapeutic procedures
Petr Bitnar (Kladno, Czech Republic), Štěpán Hlava, Jan Štovíček, Alena Kobesová

PA2447 Thermodynamic analysis of human respiratory (diaphragm) skeletal muscles
Jale Çatak (İstanbul, Turkey), Mustafa Ozilgen, Bayram Yilmaz

TP-09  Session 270  12:50 - 14:40
Thematic poster: Cardiopulmonary exercise testing in COPD and cardiovascular diseases

Disease(s): Respiratory critical care  Airway diseases  Interstitial lung diseases  Pulmonary vascular diseases
Method(s): Public health  General respiratory patient care  Physiology
Chairs: Sébastien Baillieul (GRENOBLE CEDEX 9, France), Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Zafeiris Louvaris (Leuven, Belgium), Alain Varray (Montpellier, France)

PA2448 Exercise tolerance and balance of inspiratory–to–expiratory muscle strength in relation to breathing timing in chronic obstructive pulmonary disease
Keisuke Miki (Toyonaka, Japan), Kazuyuki Tsujino, Ryuya Edahiro, Seigo Kitada, Mari Miki, Kenji Yoshimura, Hiroyuki Kaga, Yohei Oshitani, Yuko Ohara, Yuki Hosono, Hiroyuki Kurebe, Ryoi Maekura

PA2449 Endothelial microparticles as markers of exercise capacity in chronic obstructive pulmonary disease (COPD)
Dario Nieri (Pisa (PI), Italy), Marta Daniele, Tommaso Neri, Maria Adelaide Roggi, Sabrina Santerini, Barbara Vagaggini, Carmela Morizzo, Carlo Palombo, Pierluigi Paggia, Alessandro Celi

PA2450 Physiological and perceptual responses to exercise according to the locus of symptom limitation in patients with COPD
Lauren Tracey (Montreal, Canada), Dennis Jensen

PA2451 Correlation of a modified shuttle walk with six-minute walk test in COPD patients
Rishi Gopalakrishnan (Thrissur (Kerala), India), Rupak Singla

PA2452 Oxygen desaturation-resaturation and heart rate change patterns during 6-min walk test in patients with mild to severe interstitial pneumonia
Takeshi Inagaki (Chiba, Japan), Jiro Terada, Musuzu Yahaba, Naoko Kawata, Mitsuhiro Abe, Kenji Tsushima, Koichiro Tatsumi

PA2453 The disease phenotype affects exercise capacity in COPD
Rocco Francesco Rinaldo (Milano (MI), Italy), Beatrice Vigo, Sofia Comandini, Alessandra Masseroni, Stefano Centanni, Fabiano Di Marco

PA2454 Any role for cardiopulmonary exercise test in symptomatic smokers with borderline spirometry?
Rocco Francesco Rinaldo (Milano (MI), Italy), Pierfrancesco Longo, Fulvia Ribolla, Silvia Ruggeri, Job Sara, Stefano Centanni, Fabiano Di Marco

PA2455 Exercise performance in lowlanders with COPD travelling to 2048m
Tobias Kuehne (St. Gallen, Switzerland), Michael Furian, Tsogyal D Latshang, Sayaka S Aeschbacher, Fabienne Huber, Deborah Fluack, Elisabeth Domenica Hasler, Stefanie Ulrich, Philipp M Scheiwiller, Silvia Ulrich, Konrad Ernst Bloch
PA2456 COPD-Left ventricular diastolic dysfunction overlap and ventilatory inefficiency
Tiago Rodrigues De Lemos Augusto (Campo Grande, Brazil), Karina Utida, Paulo Muller, Ana Cristina Wanderley Xavier

PA2457 To study the validity, reliability and acceptability of an audio signal modified shuttle walk test in COPD patients
Abhishek Faye (Bhandara (Maharashtra), India), Rupak Singla, Richa Rai, Anil Jain, Ranadip Chowdhury, Vikas Kumar, Shweta Anand

PA2458 Exercise related desaturation in patients with COPD is a reproducible phenomenon and important phenotypic marker
Roman Kalinov (Krumovo, Bulgaria), Blagoi Marinov, Dimitrina Stoianova, Nonka Mateva, Vladimir Hodgev, Stefan Kostianev

PA2459 Exercise related desaturation (6MWT) in patients with COPD – Is it predictable?
Roman Kalinov (Krumovo, Bulgaria), Blagoi Marinov, Dimitrina Stoianova, Nonka Mateva, Vladimir Hodgev, Stefan Kostianev

PA2460 Dymanic hyperinflation: can it be the key mecanism for exercise intolerance?
Ana Lutas (Lisboa, Portugal), Susana Clemente, Andreia Isidoro, Sara Dordio, Teresa Pequito, Marco Pereira, Sofia Furtado

PA2461 Quality of life and exercise intolerance in overlapping COPD-heart failure
A.S. Soares (Sao Paulo, Brazil), R. Lima, F.F. Arbex, M.F. Oliveira, W.M. Medeiros, L.E. Nery, J.A. Neder, Priscila Sperandio

PA2462 The association between lung function and peak oxygen uptake in coronary artery disease
 Øystein Rasch-Halvorsen (Trondheim, Norway), Erlend Hassel, Ben M Brumpton, Haldor Jenssen, Martijn A Spruit, ArnulfLanghammer, Sigurd Steinshamn

PA2463 Incremental step test in patients with pulmonary hypertension
Elaine Vieira (Sao Caetano do Sul (SP), Brazil), Roberta Ramos, Ivan Ivanaga, João Rolim, Angelo Fonseca, José Rodrigues Júnior, Eloara Ferreira, Simone Dal Corso, Luiz Eduardo Nery, Jaqueline Ota-Arakaki, Camila Loureiro

PA2464 Clinical value of an abnormal increase of O2 pulse during early recovery from maximal exercise in patients with chronic thromboembolic pulmonary hypertension
Camila Melo Coelho Loureiro (Salvador (BA), Brazil), Jaqueline Sonoe Ota-Arakaki, Andrei Augusto Assis De Campos Cordeiro, Eloara V M Ferreira, Angelo Xerez Cepeda, Rudolf K F Oliveira, Carolina Montemór Soares Messina, Elaine Brito Vieira, Luiz Eduardo Nery, Roberta Pulcheri Ramos

PA2465 Voluntary exercise increases survival and exercise capacity in a monocrotaline-induced pulmonary hypertension in rats
Gouveia Silva Matheus Marcus (, Brazil), Monica Irani Gouveia, Matheus Marcus Gouveia Silva, Leoncio Lopes Soares, Filipe Rios Drummond, Meileni Ribeiro Fidelis, Alexandre Jayme Lopes Dantas Costa, Leonardo Mateus Teixeira Rezende, Anselmo Gomes De Moura, Antonio Jose Natali

PA2466 Expiratory stenosis breathing – a novel model of dynamic hyperinflation
Matthias Urban (Wien, Austria), Anna Katharina Mayr, Ingrid Schmidt, Otto Chris Burghuber, Georg-Christian Funk

PA2467 Characteristics associated with physical activity in non-severe chronic obstructive pulmonary disease

TP-10
Session 271  12:50 - 14:40
Thematic poster: New methods and concepts in exercise testing

Disease(s) : Intestinal lung diseases, Airway diseases, Respiratory infections, Sleep and breathing disorders, Pulmonary vascular diseases, Respiratory critical care, Respiratory infections

Method(s) : Imaging, Public health, Epidemiology, General respiratory patient care, Respiratory intensive care, Physiology

Chairs : Frédéric Costes (Saint-Etienne, France), Asterios Kampouras (Thessaloniki, Greece), J. Alberto Neder (Kingston (ON), Canada), Elizabeth Smith (Wythenshawe (Manchester), United Kingdom)

PA2468 Late Breaking Abstract - Regional lung heterogeneity during mechanical ventilation and gene expression in endotoxia
Seiha Yen (Hobart (TAS), Australia), Melissa Preisnner, Ellen Bennett, Stephen Dubsky, Andreas Fouras, Peter Dargaville, Graeme Zosky

PA2469 Late Breaking Abstract - The effectiveness of electrical impedance spirometry in heart insufficiency diagnostics in COPD patients
Vitaly Mishlanov (Perm, Russian Federation), Andrew Zuev, Ekaterina Koshurnikova
PA2470 Late Breaking Abstract - Conversion of FENO: from different flows to the standard flow.
Paul Lassmann-Klee (Helsinki, Finland), Lauri Lehtimäki, Tuula Lindholm, Pekka Malmberg, Anssi Sovijärvi, Päivi Piirilä

PA2471 6-minute walk test with headphones
Rita Boaventura (Porto, Portugal), Leonor Almeida, Francisco Machado, Ermelinda Moreira, Pedro Amorim, Ana Pimentel, Joana Chaves Pipa, Andreia Neves, Patricia Teles, Natália Martins, Marta Drummond

PA2472 Sensitivity and specificity of Wasserman’s cardio-pulmonary exercise test protocol in comparison with physician diagnosis after three-month followup
Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Hamidreza Abtahi, Samira Kaffan, Shirin Izadi, Besharat Rahimi, Shahrokhi Izadi

PA2473 Cardiopulmonary exercise testing (CPET) patient survey
Jeanette Boyd (Sheffield (South Yorkshire), United Kingdom), Pippa Powell, Ioannis Vogiatzis, Dimitris Kontopidis, Helge Hebestreit

PA2474 Flattening of pulse oxygen during cardiopulmonary exercise testing (CPET) and associated factors in non-cardiopathic adults: cross-sectional results from the EPIMOV study
Victor Dourado (Santos (SP), Brazil), Vitor Almeida, Flavio Almeida, Evandro Sperandio, Marcello Romiti, Antonio Gagliardi, Rodolfo Arantes

PA2475 Reference equation for the six-minute walk distance of healthy Nigerian school-aged children
Peter Odion Ubuane (Lagos, Nigeria), Barakat Adeola Animasahun, Olufunke Ajiboye, Olugbemiga Mogbafoolu Kayode-Awe, Ayodeji Oluoso Akinola, Omotola Adeleye Ajayi, Gbengaolarin Akinyosoye, Chidimma Imma Ohagwu, Fidelis Olisamedua Njokanma

PA2476 Cross-site external biological control (BioQC) in cardiopulmonary exercise testing (CPET) equipment.
Courtney Dos Santos (London, United Kingdom)

PA2477 Effects of intravenous iron on hypoxic pulmonary vasoconstriction and maximal exercise capacity during sustained (8 h) hypoxia in healthy volunteers.
Nick Talbot (Oxford (Oxfordshire), United Kingdom), Hung-Yuan Cheng, Thomas Smith, Keith Dorrington, Peter Robbins

PA2478 Establishing normal laryngeal resistance measurements for the Continuous Laryngoscopy Exercise (CLE)-Test.
Zoe Fretheim-Kelly (Oslo, Norway), Ola Røksund, John-Helge Heimdal, Hege Clemm, Marie Vollseter, Thomas Halvorsen

PA2479 Exercise fear-avoidance beliefs and self-reported physical activity in young asthmatics and healthy controls
Thomas Janssens (Leuven, Belgium), Lieven Dupont, Andreas Von Leupoldt

PA2480 Value of cardiopulmonary exercise testing in interstitial lung diseases
Gonçalo António Cítrão Samouco, Rebeca Natal, João Costa, Andreia Filipa Carriço, Ana Filipa Fernandes, Luís Vaz Rodrigues

PA2481 Evaluation of exercise capacity and mechanisms of limitation during cardiopulmonary exercise testing (CPET) in patients with chronic hypersensitivty pneumonitis
Olivia Meira Dias, Bruno Baldi, Jeferson Pereira, Leticia Cadenas, Francesca Pennati, Caterina Salito, Carlos Carvalho, Andrea Aliverti, Andre Albuquerque

PA2482 The relationship between measured and estimated oxygen uptake in patients with pulmonary tuberculosis
Mikhail Chushkin (Moscow, Russian Federation), Natalia Karpina, Lydia Popova, Olga Ols, Olga Nenasheva, Petr Struchkov

PA2483 Evaluation of the sub-maximal aerobic capacity of patients with rheumatoid arthritis (RA): preliminary data
Helmi Ben Saad, Safaa Belghali, Sadok Lataoui, Fatma Guezghzue, Khadija Baccouche, Raja Elamri, HE£A Zeglaoui, Elies Bouajina

PA2484 Borg dyspnea scale and 6 Minute Walk Test could be useful tools for assessing respiratory involvement in systemic lupus erythematosus
Mariana Cebanu (Chisinau, Republic of Moldova), Victoria Sadovici-Bobeica, Virginia Salaru, Maria Garabaju, Gheorghe Ciobanu

PA2485 Is it possible to perform cardiopulmonary exercise test in laryngectomized patients?
Danielle Cristine Campos Bedin, Roberta Pulcheri Ramos, Elaine Brito Vieira, Sonia Maria Faresin, Luiz Eduardo Nery

PA2486 Impact of diastolic dysfunction on exercise capacity in patients with liver cirrhosis
Teresa Sassmann, Gabor Kovacs, Rudolf Stauber, Fabio Revelant, Vasilie Foris, Susanne Pfeiffer, Fabian Gruber, Vanessa Stadlbauer, Daniela Kniepeiss, Gernot Zollner, Peter Fickert, Alexander Avian, Andrea Olschewski, Horst Olschewski, Philipp Douschan
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<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA2487</td>
<td>The impact of dyspnea catastrophizing on the neural processing of respiratory sensations in patients with COPD.</td>
<td>Thomas Reijnders (Heverlee, Belgium), Thierry Troosters, Wim Janssens, Rik Gosselink, Daniel Langer, Paul Davenport, Andreas Von Leupoldt</td>
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<tr>
<td>PA2488</td>
<td>Influence of anxious depressive disorder in the treatment of Sleep Apnea Hypopnea Syndrome</td>
<td>Virginia Almadana Pacheco (Sevilla, Spain), SINDY CEDEÑO DE JESÚS, Jesús Sánchez Gómez, Agustín Valido Morales, Jose María Benitez Moya</td>
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<td>PA2489</td>
<td>Erratic adherence to continuous positive airway pressure for obstructive sleep apnea</td>
<td>Daniel López-Padilla (Madrid, Spain), Milagros Llanos Flores, Virginia Gallo González, Zichen Ji, José Terán Tinedo, Elena R. Jimeno, Soledad López Martín, Elena Ojeda Castillejo, Luis Puente Maestu</td>
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<tr>
<td>PA2490</td>
<td>Assessing an auto set trial period for obstructive sleep apnoea patients</td>
<td>Joe Topham (Nottingham (Nottinghamshire), United Kingdom), Laura Watson, Linda Johnson, Peter Smith</td>
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<tr>
<td>PA2491</td>
<td>Mild OSAS: Is CPAP therapy actually required for these patients?</td>
<td>Sameer Bansal (Navi Mumbai (Maharashtra), India), Ketaki Utpat, Urmila Desai, Jyotsna Joshi</td>
</tr>
<tr>
<td>PA2492</td>
<td>Prevalence of co-morbidities and clinical features in patients with obstructive sleep apnea and chronic obstructive pulmonary disease.</td>
<td>Lucia Spicuzza (Sant’Agata Li Battiati (CT), Italy), Emilio Frasca, Giacomo Doria, Giulia Cacopardo, Claudia Crimi, Raffaele Campisi, Nunzio Crimi, Giuseppe Di Maria</td>
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<td>PA2493</td>
<td>Prevalence of overlap of COPD and OSAS in a Pulmonary Rehabilitation Centre</td>
<td>Annia Fleur Schreiber (Torino (TO), Italy), Francesca Cemmi, Cinzia Lastoria, Piero Ceriana, Antonella Balestrino, Annalisa Carlucci</td>
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<tr>
<td>PA2494</td>
<td>Prevalence of obstructive sleep apnea in asthmatic school-aged children</td>
<td>Hanaa Shafiek (Alexandria, Egypt), Noha Fawzy, Mahmoud Ibrahim Mahmoud</td>
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<td>PA2495</td>
<td>Asthma and Obstructive Sleep Apnea Syndrome (OSAS)</td>
<td>Feryel Chaouki (Batna, Algeria), Abdelmajid Djebar</td>
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<td>PA2496</td>
<td>Overlap syndrome &quot;asthma and obstructive sleep apnea&quot; in obese patients</td>
<td>Ferdaous Yangui (Tunis, Tunisia), Sarra Ammari, Hana Mrassi, Iman Kharrat, Maher Abouda, Mohamed Ridha Charfi</td>
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<td>PA2497</td>
<td>Prevalence of obstructive sleep apnea in asthmatic school-aged children</td>
<td>Hanaa Shafiek (Alexandria, Egypt), Noha Fawzy, Mahmoud Ibrahim Mahmoud</td>
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<tr>
<td>PA2498</td>
<td>One airway one disease from a different perspective – eyes cant see what the mind doesn’t know</td>
<td>Firoz A Hakkim (Trivandrum (Kerala), India), Rajesh V, Giridhar B.H, Nandhakisore Baikunje</td>
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<tr>
<td>PA2499</td>
<td>IMPACT OF COMORBIDITY ON SLEEP QUALITY IN COPD PATIENTS EVALUATED WITH THE PITTSBURGH SLEEP QUALITY INDEX (PSQI)</td>
<td>Julia Sampol Sirvent (Barcelona, Spain), Patricia Lloberes Canadell, Odile Romero Santo Tomás, Beatriz Valeiro González, Marc Miravitlles Fernández, Gabriel Sampol Rubio, Jaume Ferrer Sancho</td>
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<td>PA2500</td>
<td>Is OSA an important risk factor for metabolic dysregulation in obese COPD patients</td>
<td>Silke Anna Theresa Weber (Botucatu (SP), Brazil), Flavio Danilo Pissulin, Ricardo Beneti, Francis Lopes Pacagnelli</td>
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<tr>
<td>PA2501</td>
<td>Assessment of 10-year risk for cardiovascular disease in patients with overlap syndrome</td>
<td>Athanasios Voulgaris (Alexandroupolis, Greece), Kostas Archontogeorgis, Evangelia Nena, Maria Xanthoudaki, Paschalis Ntolios, Toulin Mouemin, Konstantina Chadia, Nikoleta Paxinou, Konstantinos Kaltzas, Marios Froudarakis, Paschalis Steiropoulos</td>
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<td>Session 273</td>
<td>12:50 - 14:40</td>
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<td><strong>Thematic poster: Diagnostics including questionnaires</strong></td>
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<td><strong>Disease(s):</strong> Sleep and breathing disorders</td>
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<td><strong>Method(s):</strong> Surgery, Epidemiology, Physiology, General respiratory patient care, Public health</td>
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<td><strong>Chairs:</strong> Renata L. Riha (Edinburgh (Edinburgh), United Kingdom), Simon Dominik Herkenrath (Köln, Germany), Sophia E. Schiza (Heraklion, Greece), Ingo Fietze (Berlin, Germany)</td>
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<td><strong>PA2507</strong> ONE SIZE DOES NOT FIT ALL: SCREENING SCORES AND POLYSOMNOGRAPHY PROFILES OF TWO ETHNICALLY VARIED POPULATIONS</td>
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<tr>
<td>Ravi Chandra Malapaka (Bangalore (Karnataka), India), Murali Mohan, Archita Joshi Bhatt, Deepesh Vaidya, V M Annappandian</td>
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<td><strong>PA2508</strong> Correlation between diurnal symptoms (Excessive Daytime Sleepiness) and nocturnal symptoms (Nocturia) in patients with Obstructive Sleep Apnoea</td>
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<td>Teresa Diaz De Teran Lopez (Santander, Spain), Kimberly Lee, Sandra Tello Mena, Fabiola Escobar Ramirez, Marta Cabello Najera, Carlos Queipo Corona, Marian Martinez Martinez, Maria Martin Garcia, Olga Cantalejo Martin, Felix De Carlos Villafranca, Emilio Macias Escalada, Pedro Muñoz Cacho, Monica Gonzalez Martinez</td>
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<td><strong>PA2509</strong> Respiratory events during stable wake in sleep apnoea patients: occurrence and mechanism.</td>
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<td>Pierre J. Escourrou (Clamart CEDEX, France), Marie Brandewinder, Christian Berthomier, Pierre Berthomier, Guillaume Baffet, Zouheir Balekji, Nathalie Puisais, Gabriel Roisman</td>
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<td><strong>PA2510</strong> Multifactorial determinants of sleepiness and missing accident at wheel in OSA patients</td>
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<td>Francesco Fanfulla (Pavia (PV), Italy), Elisabetta Ruscio, Irene Risi, Nadia D'Artavilla Lupo, Aleksandar Prpa, Rossella Trentin, Caterina Pronzato</td>
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<td><strong>PA2511</strong> Self Reported Sleepiness At The Wheel Versus Apnea Hypopnea Index To Predict Sleep Related Accidental Risk Of Patients Suspected Obstructive Sleep Apnea Syndrome</td>
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<td>Pierre Philip (Bordeaux Cedex, France), Sebastien Bailly, Meriem Benmerad, Jean-Arthur Micoulaud-Franchi, Yves Grillet, Marc Sapene, Renaud Tamisier, Jean-Louis Pepin</td>
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<td><strong>PA2512</strong> Recognizing patients with sleepapnoea in primary care: a major challenge</td>
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<td>Elske Luiten (Enschede, Netherlands), Bart Dikkeboer, Marjolein Brusse-Keizer, Michiel Eijsvogel</td>
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<td><strong>PA2513</strong> Comparison of three clinical screening questionnaires for Sleep Apnea Syndrome (SAS) in Primary Care (PC)</td>
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<td>Patricia Peñacoba (Barcelona, Spain), Mª Antonia Llauger, Rosa Mª Miralda, Leandra Dominguez, Ana Mª Fortuna, Anna Mª Pedro, Pepi Valverde, Jose Ignacio Aoiz, Joan Bayó, Nuria Argemi, Casimira Medrano, Marineus Puig, Joan Juvanted, Montserrat Reverté, Xavier Flor, M. Angeles Santos, Mª Del Mar Fraga, Carmen Santiveri, Gabriella Sampoli, Patricia Lloberes, Nuria Grau, Vicente Plaza, Mercè Mayos</td>
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<td><strong>PA2514</strong> Comparison of three questionnaires for screening obstructive sleep apnea syndrome</td>
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<td>Hana BLIBECH (Tunis, Tunisia), Ferdaous Yangui, Imen Kharrat, Hana Mrassi, Maher Abouda, Mohamed Ridha Charfi</td>
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<td><strong>PA2515</strong> Sleep apnea screening questionnaires in patients with type 2 diabetes.</td>
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<td>Athanasia Pataka (Thessaloniki, Greece), Seraphim Kotoulas, George Kalamaras, Evangelia Panagiotidou, Vaggelis Chatzopoulos, Katalin Fekete, Paraskevi Argyropoulou</td>
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<td><strong>PA2516</strong> Comparison of different questionnaires to identify risk for obstructive sleep apnea in Indian population</td>
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<td>Mani Tiwari (Allahabad (Uttar Pradesh), India), Raj Kumar</td>
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PA2517  DES-OSA PLUS- a validation study and improvement of the score
Isaac Shpirer (Rehovot, Israel), Reudor Grinberg, Ben Fox

PA2518  External validation of a model predicting the risk of adult obstructive sleep apnea
Moussa Riachy (Beyrouth, Lebanon), Fadi Farah, Romy Younan, Ihab Ibrahim, Georges Juvelikian

PA2519  Development and validation of a screening algorithm for perioperative risk of complications in patients suspected with OSA.
Vladimir Macavei (London, United Kingdom), Adil Hasnain, Dan King, Otto Mohr, Jelka Mitic, Terry O'Shaughnessy

PA2520  Evaluation of the pretest probability of severe OSA in a bariatric population
Gabriel Roisman (Clamart, France), Michel Petitjean, Denis Chemla, Claire Colas Des Francs

PA2521  Obstructive sleep apnea and levels of physical activity and its association with elevated cardiovascular risk in chilean adults
Juan Carrillo Azocar (Santiago, Chile), Sandra Mahecha-Matsudo, Guillermo Droppelmann, Maria Belen Fernandez, Fernando Yanez, Patricia Fernandez, Ariel Cisternas

PA2522  Obstructive Sleep Apnea severity and lung function
Maria Alvarenga Santos (Lisboa, Portugal), Margarida Aguiar, Vânia Sacramento, Sílvia Rodrigues, Sofia Furtado

PA2523  Spirometric alterations in patients studied for suspected sleep-disordered breathing
Maria Del Carmen Fernandez Criado (Sevilla, Spain), Antonio Javier Cruz Medina, Cristina Carrasco Carrasco, Javier Diez Sierra, Francisco Campos Rodriguez

PA2524  The effect of unilateral forced nostril breathing on sleep physiology
Elif Yilmazel Uçar (Erzurum, Turkey), Deniz Ozturk, Omer Araz, Metin Akgun

PA2525  Suprasternal pressure recording and respiratory inductance plethysmography for respiratory effort evaluation in patients with sleep-disordered breathing
Abdelkebir Sabil (Paris, France), Martin Glos, Katharina Jelavic, Christoph Schöbel, Ingo Fietze, Thomas Penzel

PA2526  Diagnosing sleep disorders: a continued argument for overnight oximetry
Javed Ibrahim (Walsall (West Midlands), United Kingdom), A Ali, Z Khan, M Radzali, A Makan, E Crawford, N Ahmad, K Srinivasan, H Moudgil

TP-13  Session 274  12:50 - 14:40
Thematic poster: Sleep-disordered breathing: biomarkers and genetics and the role of hypoxia, insomnia, movement disorders and sleep quality

PA2527  Late Breaking Abstract - Single variable non-anthropometric based continuous positive airway pressure predictive equation
Marwa Omar (Mansoura, Egypt), Ahmed Younis, Mohsen Elshafey, Aida M. Yousef

PA2528  Late Breaking Abstract - How to Provide Optimal Depth of Sedation for DISE: Simultanious Monitorization of EEG and BIS
Mehmet Ali Babademez (Ankara, Turkey), Gökhan Yalçınler, Mustafa Aksoy, Saliha Kuşoğlu Atalay, Kemal Caner Deliöğlu, Ayça Tuba Dumanlı Özcan, Hayati Kale

PA2529  Late Breaking Abstract - Pilot study for a new diagnostic supply process for patients with sleep related breathing disorders
Katharina Lederer (Berlin, Germany), Sandra Zimmermann, Maria Haustein, Vivienne Gourdon, Bodo Weller, Martin Glos, Maria Maass, Ingo Fietze, Thomas Penzel

PA2530  Interleukin-10 affects the control of breathing.
Charoula Eleni Giannakopoulou (Athens, Greece), Adamantia Sotiriou, Maria Dettoraki, Michael Yang, Fotis Perlikos, Dimitrios Toutoupanakis, Georgios Prezerakos, Ioannis Koutsourelakis, Georgios Kastis, Vronia Vassilakopoulou, Eleftheria Mizi, John J Greer, Theodoros Vassilakopoulou

PA2531  Chronic Intermittent Hypoxia effects are not mediated by guinea pig carotid body sensitization
Angela Gomez-Niño (Valladolid, Spain), Inmaculada Docío, Elena Olea, Jesus Prieto-Lloret, Ana Obeso, Asencion Rocher
PA2532 The role of inflammatory biomarkers in obstructive sleep apnea syndrome
Süreyya Yilmaz (Diyarbakir, Turkey), Hadice Selimoglu Sen, Mahsuk Taylan, Melike Demir, Fusun Topcu, Abdurrahman Senyigit, Gokhan Kirbas

PA2533 Oxydative stress in obstructive sleep apnea: Value of fractional exhaled nitric oxide measurement
Samira Aouadi (Ariana, Tunisia), Selma Mkaddem, Khadija Ayed, Imen Sahnoun, Sonia Maalej, Saloua Jameeddine, Leila Douik-Elgharbi

PA2534 Exhaled Breath Analysis for the Diagnosis of Obstructive Sleep Apnea
Timon M. Fabius (Enschede, Netherlands), Rianne De Vries, Marjolein Brusse-Keizer, Michiel M. M. Eijsvogel, Frans H. C. De Jongh

PA2535 Urinary biomarkers for obstructive sleep apnea syndrome: Lipocalin type prostaglandin-D synthase and F2-isoprostane
Murat Türk (Soest, Netherlands), Oğuz Köktürk, Zeynep İşköðoðan, Canan Demirtað

PA2536 The role of P-selectin glycoprotein ligand-1 (PSGL-1) in the pathogenesis of obstructive sleep apnea
Péter Horváth (Budapest, Hungary), Zsófia Lázár, Martina Mészáros, Gabriella Gállfy, Rita Puskás, György Losonczy, László Kunos, András Bıkóv

PA2537 Peripheral blood lymphocyte repertoire in non-obese patients with Obstructive Sleep Apnea.
Agata Raniszewska (Warszawa, Poland), Malgorzata Barsas, Piotr Bielicki, Iwona Kwiecien, Tomasz Skirecki, Aneta Wernicka, Maciej Wyzgal, Joanna Domagala-Kulawik

PA2538 The frequency of monosite chemoatratant protein-1 gen polymorphism in obstructive sleep apnea syndrome
Buðra Kerget (Erzurum, Turkey), Ömer Araz, Elif Yilmazel Uçar, Metin Akgun

PA2539 Apolipoprotein E polymorphisms and incident arterial hypertension in obstructive sleep apnea patients A prospective cohort study
Ana Cerezo Hernández (Valladolid, Spain), Tomás Ruíz Albi, Maria Jesús Alonso Ramos, Andrea Crespo Sedano, Daniel Alvarez González, Julio Fernández De Frutos Arribas, Carmen Ainhoa Arroyo Domingo, Félix Del Campo Matías

PA2540 The effect of chronic-intermittent-hypoxia on 5-HT1A receptors and GIRK-2 in dorsal raphe nucleus of rats
Ying Zou (Shenyang, China), Wei Wang, Wenyang Li, Hongyu Jin

PA2541 Study of cognitive impairment in subjects with obstructive sleep apnoea using Addenbrooke's Cognitive examination(ACE-R)
Uma Maheswari Krishnaswamy (Bangalore (Karnataka), India), Priya Ramachandran, Kimberly D'Souza, Uma Devaraj

PA2542 Efficacy and safety of single-use suvorexant for insomnia during in-laboratory polysomnography in patients with obstructive sleep apnea: A feasibility study
Takuma Matsumura (Chiba, Japan), Jiro Terada, Taku Kinoshita, Yoriko Sakurai, Misuzu Yahaba, Seiichiro Sakao, Chikara Yoshimura, Koichiro Tatsumi

PA2543 Periodic Leg Movements are Associated With Cardiovascular Disease and Severity of Obstructive Sleep Apnea Syndrome
Halil Ibrahim Yakar (Istanbul, Turkey), Sebahat Alışır Ecder, Erkan Ceylan, Asiye Kanbay

PA2544 Effect of nighttime earplugs and eye mask on sleep quality in medical intensive care unit patients
Pureapat Arttawejkul (Bangkok, Thailând), Naricha Charakalwasan

PA2545 Sleep quality, under-recognition and underreporting of sleep disturbance among HIV patients attending tertiary hospital in Ilorin, Nigeria
Adeniyi Olatunji Aladesanmi (ilorin, Nigeria), Olufemi Desalu, Adeniyi Aladesanmi, Olutobi Ojuawo, Christopher Opeyemi, Obianuju Ozoh, John Olarinoye, Taofeeq Oloyede, Emmanuel Sanya, Alakija Salami

TP-14 Session 275 12:50 - 14:40
Thematic poster: Obesity: comorbidities
Disease(s) : Sleep and breathing disorders Airway diseases
Method(s) : Public health Respiratory intensive care Epidemiology General respiratory patient care Physiology
Chairs : Thomas Brack (Glarus, Switzerland), Alanna Hare (London, United Kingdom), Peter Coss (Dublin 8, Ireland), Oana Claudia Deleanu (Bucuresti, Romania)

PA2546 Late Breaking Abstract - Obstructive Sleep Apnoea in an Irish Bariatric Population
Imran Johan Meurling (Dublin 4, Ireland), Emer O’ Malley, Colin Dunlevy, Donal O’ Shea, John F. Garvey

PA2547 The results of OSAS patients in our clinic
Süreyya Yilmaz (Diyarbakir, Turkey), Haidice Selimoglu Sen, Mahsuk Taylan, Melike Demir, Gokhan Kirbas
Elevated levels of BMI positively correlate with increased cardiovascular risk in patients with Obstructive Sleep Apnea.

Pierluigi Carratù (Bari (BA), Italy), Gaia Corvasce, Silvano Dragonieri, Lorenzo Marra, Giorgio Castellana, Teresa Ranieri, Onofrio Resta

Ericksonian coaching for weight management in patients with OSA: A pilot study

Pavol Joppa (Košice, Slovakia), Ruzena Tkacova, Ivana Paranicova, Eva Timkova, Dagmar Vonkova

The issue of weight management in sleep apnea patients

Andrius Komarovec (Vilnius, Lithuania), Rasa Gauronskaite, Irina Liustrickyte, Vaiva Kumpauskaite, Dalia Balcienė, Rollandas Zablockis, Edvards Danila, Agne Krizickytė, Justina Kucinskaite

Predictive factors of residual events after weight loss in Obstructive Sleep Apnea Syndrome.

Astrid Mosseray (Woluwe-St-Lambert, Belgium), Daniel Rodenstein, Gimbada Benny Mwenge

Diagnosis, follow-up and management of sleep disordered breathing in children with Osteogenesis Imperfecta

Jessica TAYTARD (Paris, France), Antoine Leotard, Marion Aouate, Michèle Boule, Véronique Forin, Pauline Lallemant-Dudek

Assessment for Sleep in Myotonic Dystrophy type 1(MD-1) patients

Sandra Pedrero Tejada (Santurtzi (Vizcaya), Spain), Borja Ortiz De Urbina Antia, Idoia Salinas Garrido, Beatriz Gonzalez Quero, Sonia Castro Quintas, Amaia Urrutia Gajate, Lorea Martinez Indart, Valentin Cabriada Nuño, Pilar Marin Fernandez

High obstructive sleep apnea risk in patients with Aortic dissection

Xi Xin (Beijing, China), Wei Yongxiang, Sun Lizhong, Han Fang

Body image, sexual dysfunction and dysfunction in men with obstructive sleep apnea syndrome

Grzegorz Brozek (Katowice, Poland), Krzysztof Nowosielski, Szymon Skoczynski, Klaudia Glinka, Karolina Ficek, Aleksandra Oraczewska, Beata Kotulska, Sylwia Waz, Adam Barczyk

Is there a link between OSA and erectile dysfunction?

Paola Gudiel Arriaza (Leon, Spain), Amparo Sánchez Serrano, Jose Luis Fernandez Sánchez

Chronic cough in patients with obstructive sleep apnea.

Aleksandra Rybka (Warszawa, Poland), Magdalena Wąsik, Elżbieta Grabczak, Marta Dąbrowska, Piotr Bielicki, Rafał Krenke

Prevalence of Obstructive Sleep Apnea in Idiopathic Pulmonary fibrosis

Subho Sarkar (North 24 Parganas (West Bengal), India), Chainaram Choudhary, Gopal Purohit

Association Between Swallow-Associated Respiratory Arousal and Nocturnal Gastroesophageal Reflux Occurrence in Patients with Coexisting Obstructive Sleep Apnea and Gastroesophageal Reflux Disease

Nattawat Jantarangsi (Bangkok, Thailand), Nattapong Jaimchariyatam, Sutep Gonlachanvit, Tayard Desudchit

Snoring and nocturnal gastroesophageal reflux in the ECRHS III: Association to lung function and respiratory symptoms

Össur Ingi Emilsson (Uppsala, Sweden), Shadi Amir Hägg, Deborah Jarvis, Judith Garcia-Aymerich, Thorarinn Gislason, Christer Janson, On Behalf Of The Ecrhs Sleep Working Group

Does intraocular pressure change in response to CPAP applied in wakefulness?

Dariusz Wozniak (St Ives (Cornwall), United Kingdom), Matthew Schneider, Rupert Bourne, Ian Smith

Obstructive Sleep Apnea in patients with Primary-Open Angle Glaucoma: prevalence and associations

Dariusz Wozniak (St Ives (Cornwall), United Kingdom), Rupert Bourne, Gil Peretz, Jane Kean, Catherine Willshire, Shabbir Harun, Sofia Villar, Yi-Da Chiu, Ian Smith

28-day post-operative complications in elective bariatric patients with obstructive sleep apnoea

Peter Siu Pan Cho (London, United Kingdom), Paola Eiben, Joseph Patrick Hetherington, Kai K Lee

Venous vs arterial blood gases in the assessment of sleep disordered breathing in an Irish bariatric population

Imran Johan Meurling (Dublin 4, Ireland), Donal O’Shea, John Garvey

Can serum bicarbonate be used to screen for sleep disordered breathing (SDB) in obese patients?

Giulia Spoletini (Leeds (West Yorkshire), United Kingdom), Julian Barth, Daniel Peckham, Dipansu Ghosh, Mark Elliott

12.09.2018
The use of untunneled indwelling pleural catheters for non-malignant pleural effusions in the outpatient
André Miotto (São Paulo (SP), Brazil), Julio Mott Ancona Lopez, Jorge Henrique Rivaben, Pedro Augusto Antunes Honda, Marcio Botter

Treatment of empyema thoracis in HIV-infected patients in the era of antiretroviral therapy: a thoracic surgeon's point of view
Dimitris Lioumpas (Athens, Greece), Aggeliki Panagiotou, Konstantinos Bouboulis, Ilias Samiotis, Ioannis Stamatakis, Despoina Mylonaki, Stylianos Zaragkas, Nikolaos Tzatzadakis

The use of Povidone iodine in the anticipation and management of prolonged post-operative air-leak
ASMA SAIDANE (TUNIS, Tunisia), Walid Abid, Yacine Ben Safa, Sami Daloul, Mounir Ben Moussa, Mohamed-Sadok Boudaya

Role of rigid thoracoscopy in undiagnosed exudative pleural effusion
Moti Lal Bunkar (Jaipur (Rajasthan), India), Anil Saxena, Suman Khangarout, Rajendra Takhar, Babulal Bansiwal, Vineet Gupta, Shahin Lal, Savita Arya

Management of recurrent hepatic hydrothorax: a 5-year experience at a tertiary centre in Greece.
Dimitris Lioumpas (Athens, Greece), Konstantinos Boumpoulis, Ilias Samiotis, Ioannis Stamatakis, Despoina Mylonaki, Stylianos Zaragkas, Aggeliki Panagiotou, Nikolaos Tzatzadakis

Pleural empyema – does time matter?
Dionísio Joaquim de Castro Maia (Vila do Conde, Portugal), João Santos Silva, David Silva, Ana Rita Costa, João Eurico Reis, Ricardo Coelho, Alexandra Mineiro, Paulo Calvinho, João Cardoso

Comparative results of Sericin pleurodesis, as a novel pleurodesis agent
Alkın Yazıcıoğlu (Ankara, Turkey), Serkan Uysal, Tuba Sahinoglu, Mahmut Subasi, Funda Demirag, Erdal Yekeler

Uniportal thoracoscopy for pneumothorax
Camilla Poggi (Rome, Italy), Sara Mantovani, Ylenia Pecoraro, Carolina Carillo, Massimiliano Bassi, Davide Amore, Pietro Bruschini, Andrea Pagini, Giuseppe Naldi, Tiziano De Giacomo, Daniele Diso, Erino Angelo Rendina, Federico Venuta, Marco Anile

Solitary fibrous tumor of the pleura. Presentation of a series of cases.
Servio Tulio Torres Rodriguez (Guatemala City, Guatemala), Danilo Herrera Cruz, Marco Antonio Peñalonzo Bendfeldt

Pedicled intercostal muscle flap for bronchus fistula prevention and treatment.
Aivars Berzins (Moers, Germany), Uldis Kopeika, Petar Traykov, Christian Roesel, Thomas Krbek

Vadim Krylov (Moscow, Russian Federation), Ekaterina Dobrava, Sergey Kharnas, Vladimir Parshin, Leonid Ippolitov, Nikolay Kuznetsov, Georgy Polunin

The operation of choice for closure of large defects of the anterior wall of the trachea.
Rustem Hayaliev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otabek Eshonkhodjaev

Management of secondary tension pneumothorax as a complication of chronic obstructive pulmonary disease: self-experience study
Filip Shterev (Plovdiv, Bulgaria), Ivan Novakov

Mediastinal masses: Clinical, radiological and pathological analysis
Darine Sakka (sfax, Tunisia), Hanen Smadhi, Achraf Ben Tkhayat, Hela Kamoun, Ines Akrout, Dorra Greb, Hajer Ben Abdelghaffar, Hela Hassan, Leila Elfekih, Mohamed Lamine Megdiche

Surgical resection and outcome of multifocal adenocarcinoma of the lung
Funda Incekara (Ankara, Turkey), Deniz Kaygusuz-Tikici, Sevki Mustafa Demiroz, Koray Aydogdu, Funda Demirag, Selim Sakir Erkmen Gulhan, Sadi Kaya, Gokturk Fındık

Thoracomyoplasty operations in treatment of postoperative complications it thoracic surgery.
Aleksey Reshetov (St. Petersburg, Russian Federation), Aleksey Elkin, Dmitry Ermacov, Tatiana Trunina
Session 277  12:50 - 14:40

Thematic poster: Moving lung transplantation forward

**Disease(s):** Pulmonary vascular diseases, Respiratory infections, Interstitial lung diseases, Respiratory critical care, Thoracic oncology, Airway diseases

**Method(s):** Cell and molecular biology, General respiratory patient care, Physiology, Respiratory intensive care, Endoscopy and interventional pulmonology, Transplantation

**Chairs:** Are Martin Holm (Oslo, Norway), Cécile Robinson (Zürich, Switzerland), James Laurence Lordan (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Federica Meloni (Pavia (PV), Italy)

**PA2582 Surgical management of pulmonary hydatid cyst with a thoracoscopic approach**
Sarra Zairi (Tunis, Tunisia), Sabrine Louhaiachi, Mehdi Abdennadher, Monia Attia, Amira Dridi, Hazem Zribi, Henda Neji, Sonia Ouerghi, Saoussen Hantous, Khaoula Ben Miled, Taher Mestiri, Adel Marghli

**PA2583 Features and management of iatrogenic tracheal stenosis**
Sabrine LOUHAICHI (Ariana, Tunisia), Sarra Zairi, Abdelmalek Jelassi, Besma Hamdi, Mahdi Abdennadher, Hazem Zribi, Amira Dridi, Jamel Ammar, Adel Marghli

**TP-16 ERS 2018 International Congress**

**PA2584 LSC - 2018 - Development of a hybrid alginate-ECM hydrogel as a potential bioink for 3D bioprinting**
Martina M. De Santis (Lund, Sweden), Darcy Wagner (Lund, Sweden), Chiharu Ota (chipaota@gmail.com / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich,Munich), Rita Costa (rita.costa@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich,Munich), Ali Doryab (ali.doryab@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich,Munich), Hani N. Alsafadi (hani.alsafadi@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich,Munich), Deniz Bolukbas (deniz.bolukbas@med.lu.se / Department of Experimental Medical Sciences, Lund University,Lund), Melanie Königshoff (MELANIE.KOENIGSHOFF@UCDENVER.EDU / Department of Medicine, University of Colorado,Denver), Darcy E. Wagner (darcy.wagner@med.lu.se / Department of Experimental Medical Sciences, Lund University,Lund)

**PA2585 LSC - 2018 - Laser-capture microdissection, mass spectrometry and immunohistochemistry reveal pathological alterations in the extracellular matrix of transplanted lungs**
Catharina Mueller (Lund, Sweden), Emma Ahman (emma.ahman@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science and Division of Infection Medicine, Department of Clinical Sciences, Lund University,Lund), Leif T. Eriksson (leif.eriksson@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science, Lund University and Department of Respiratory Medicine and Allergology, Lund University Hospital,Lund), Katharina Wassilew (katharina.wassilew@regionh.dk / Department of Pathology, Copenhagen University Hospital, Righospitalet,Copenhagen), Hans H. Schultz (Hans.Henk.Lawaetz.Schultz.01@regionh.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet,Copenhagen), Hans Brunstrom (hans.brunstrom@med.lu.se / Department of Clinical Sciences in Lund, Division of Oncology and Pathology, Lund University and Department of Genetics and Pathology, Division of Laboratory Medicine, Region Skåne,Lund), Michael Perch (Michael.perch@regionh.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Righospitalet,Copenhagen), Martin Iversen (martin@iversen-net.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Righospitalet,Copenhagen), Johan Malmstrom (johan.malmstrom@med.lu.se / Division of Infection Medicine, Department of Clinical Sciences Lund, Lund University,Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science, Lund University,Lund)

**PA2586 Safety of antifibrotic drugs in idiopathic pulmonary fibrosis patients awaiting lung transplantation**

**PA2587 Significant associations between Escape-avoidance coping and emotional distress in patients evaluated for lung transplant**
Torunn Stavnes Soyseth (Oslo, Norway), Mary Amanda Dew, May Brit Lund, Gro Killi Haugstad, Vidar Soyseth, Ulrik Fredrik Malt

**PA2588 Cardiovascular Autonomic Control in Lung Transplantation Recipients**
Valeria Rossetti (Milano (MI), Italy), Giulia Coti Zelati, Eleonora Tobaldini, Letizia Corinna Morlacchi, Domenica Federica Briganti, Linda Bassi, Ilaria Righi, Stefano Aliberti, Paolo Tarsia, Nicola Montano, Francesco Blasi

**PA2589 The diaphragm before and after lung transplant (LT)**
Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Emilia Privitera, Maurizio Vergari, Ilaria Righi, Manuela Sgroia, Davide Tosi, Valeria Rossetti, Federica Briganti, Peter Frykhol, Carla Colombo, Mario Nosotti, Alessandro Palleschi

**PA2590 Cardiopulmonary response to exercise after lung transplantation**
Mariann Ulvestad (Oslo, Norway), Michael Thomas Durheim, May Brit Lund, Johny Kongerud, Stian Roterud, Elisabeth Edvardsen
Physical activity, physical fitness and quality of life in lung transplant recipients
Elisabeth Edvardsen (Oslo, Norway), Mariann Ulvestad, May Brit Lund, Johny Kongerud, Inger Lise Alteren, Hanne Flatsetøy, Vibeke Klungerbo, Stian Roterud, Michael T Durheim

Donor lung pathological abnormalities and recipient outcomes

Bronchial stenosis, a critical complication in lung transplant: single center experience
Francesco Tarantini (Vimercate (MB), Italy), Giuseppe Ciaravino, Piercarlo Parigi, Luca Novelli, Lorenzo Corbetta

The role of pulmonary arterial wedge pressure in primary graft dysfunction
Federico B. M. Blasi (Milano (MI), Italy), Letizia Corinna Morlacchi, Valeria Rossetti, Rosa Casella, Paolo Tarsia, Mario Nosotti, Lorenzo Rosso, Paolo Mendogni, Federico Lombardi, Marco Vicenzi

Basiliximab induction reduces the incidence of acute rejection in lung transplant patients
Víctor Manuel Mora Cuesta (Santander (Cantabria), Spain), David Iturbe, Laura González, Teresa Díaz, Sonia Fernández, Amaya Martínez, Ana Sangrador, Javier Gómez, Ainara Azueta, Laura Sánchez, Sara Narango, Carlos Álvarez, Miguel Carbajo, Roberto Mons, Rodrigo Alonso, Virginia Pérez, Alicia De Pablo, José M. Cifrián

Differential gene expression of aquaporins (AQP) in lung transplant recipients with acute lung rejection.
Dimitris Magouliotis (Larisa, Greece), Vasiliki Tasiopoulou, Kyriakos Spiliopoulos, Konstantina Svokos, Alexis Svokos, Kalliopi Athanassiadi

Retrospective analysis of efficacy of combined CMV prophylaxis scheme: Turin Lung Transplant Center experience
Filippo Patrucco (Torino (TO), Italy), Elisa Clivati, Giulia Verri, Erika Simonato, Daniela Libertucci, Cristina Costa, Antonio Curtoni, Massimo Bottini, Massimo Rinaldi, Caterina Bucia, Paolo Solidoro

COPD and alpha-1 antitrypsin deficiency emphysema: characteristics and survival after Lung Transplantation
Sara Isabel Campos Silva (Paços de Ferreira, Portugal), Nidia Caires, Vânia Caldeira, Ricardo Dias Coelho, Ana Sofia Santos, Telma Lopes, Paulo Calvinho, Luisa Semedo, João Cardoso, José Fragata

Outcomes and survival in alpha1-antitrypsin deficiency post lung transplantation
Jana Kleinerova (Dublin 8, Ireland), Lana Khorsheed, Iain Lawrie, Sara Winward, Karen Redmond, Donna Eaton, David Healy, Lars Nolke, Seyed Javadpour, Jim Egan

Evaluation of early conversion to prolonged-release tacrolimus in lung transplantation.
Marta Entreñas Castillo (CORDOBA, Spain), Isabel Ordoñez Dios, Francisca Montoro Ballesteros, Javier Redel Montero, Maria Jesus Cobos Ceballos, Francisco Santos Luna, Jose Manuel Vaquero Barrios

Incidence and risk factors for bronchiolitis obliterans syndrome stage 0p after lung transplantation
Sehyun Kwak (Seoul, Republic of Korea), Song Yee Kim, Ji Soo Choi, Sungwoo Moon, Juhye Shin, Ji-Eun Park, Moo Suk Park, Hyo-Chae Paik, Jin Gu Lee

Malignancies in lung transplant recipients: un update of the portuguese experience
Vania Caldeira (Azueira, Portugal), Tiago Sá, Sara Silva, Nidia Caires, Ricardo Coelho, Sara Alfarroba, Ana Sofia Santos, Luisa Semedo, Joao Cardoso, Jose Fragata

Experience of lung transplant consultation in a non-transplant centre
Maria Asuncion Macia Palazon (Palma De Mallorca, Spain), Antonio Román Broto, Ernest Sala Llinas, Cristina Berastegui Garcia, Manuel López Meseguer, Jaume Saeleda Roig

Pepsin as a biomarker of reflux in NAR patients
Rhianna Lenham (Kingston Upon Hull, United Kingdom), Rhianna Lenham, Qiuping Wang, Xiu Wang, Peter Dettmar

Vitamin D and Bronchiectasis Severity Index (BSI): A correlation
Sebastian Ferri (Catania (CT), Italy), Enrico Heffler, Raffaele Campisi, Carlo Chessari, Claudia Crimi, Nunzio Crimi
Interleukin-6 levels as an evolution marker of late mortality and cardiovascular events after an episode of community-acquired pneumonia.

Sergio Luquero Bueno (Madrid, Spain), José María Galván-Román, Jose Curbelo, Mara Ortega-Gómez, Ángel Lanchon-Sánchez, Lorena Vega-Piris, Manuel Gómez, Hortensia De La Fuente, Carmen Suárez, L. Jesús Jiménez-Borreguero, Javier Aspa Marco

Soluble urokinase plasminogen activator receptor (suPAR) for the prediction of ventilator-associated pneumonia (VAP)

Pouline M.P. van Oort (Amsterdam, Netherlands), Lieuwe D. Bos, Pedro Povoa, Paula Ramirez, Antonio Torres, Antonio Artigas, Marcus J. Schultz, Ignacio Martin-Loeches

Serum ferritin as a prognostic marker of pneumonia: a prospective, single center study

Ji Hye Kim (Daejeon, Republic of Korea), Dae Sung Kim, In-Beom Jeong, Ji-Woong Son, Mun-Jun Na, Sun-Joong Kwon

Relationship between Neutrophilic Airway Inflammation and Airway Colonisation in non-Cystic Fibrosis Bronchiectasis

Federico Lorenzo Dente (Pisa (PI), Italy), Roberta Del Cesta, Maria Laura Bartoli, Matteo Bradicich, Marta Daniele, Maria Adelaide Roggi, Barbara Vagaggini, Pierluigi Paggiaro

C-reactive protein (C-RP) in patients with chronic heart failure (CHF) and community-acquired pneumonia (CAP): usefulness to guide antibiotic prescription

Andrey Bobylev (Smolensk, Russian Federation), Svetlana Rachina, Sergey Avdeev, Sergey Rachin, Daria Smirnova

LYMPHOPENIA AS PREDICTOR OF LONG TERM MORTALITY IN PATIENTS WITH HOSPITAL ACQUIRED PNEUMONIA

Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Meropi Panagiotarakou, Marta Martin-Fernandez, Raquel Almansa Mora, Otavio Ranzani, Cattia Cilloniz, Gianluigi Li Bassi, Admantia Liapikou, Miquel Ferrer, Jesus Bermejo-Martin, Antoni Torres

Serum Albumin-Globulin ratio reversal predicts morbidity in patients hospitalized for Influenza A(H1N1) infection.

Karthikeyan Ramaraju (Mumbai (Maharashtra), India), Anupama K Murthy, Nithilavalli Balasubramaniam, Vinodh Kumar Leon

Usefulness of the measurement of plasma neutrophil gelatinase-associated lipocalin as a biomarker for predicting prognosis in hospitalized patients with pneumonia

Sang-Heon Kim (Seoul, Republic of Korea), Ji-Hee Min, Tai Hoon Park, Dong Won Park, Ji-Yong Moon, Ta Hyung Kim, Jang Won Sohn, Ho Joo Yoon

The extent of microbiological testing and antibiotic de-escalation in adults with community-acquired pneumonia: a retrospective cohort study.

Esther Wittermans (Nieuwegein, Netherlands), Stefan M T Vestjens, Willem Jan W Bos, Jan C Grutters, Ewoudt M W Van De Garde, Bart J M Vlaminckx

MCC-IMS Spectral Analyses of Volatile Markers for Screening of Clinically Relevant Bacterial Infection

Gunther Becher (Bernau, Germany), Roman Purkhart, Romy Gerber, Werner Schueler, Rolf Graupner

The association between phagocytes in Gram-stained sputum and detection of causative organisms

Koko Shibutani (Tokyo, Japan), Ryosuke Tsugitomi, Ryosuke Imai, Hiroaki Kanemura, Kenji Ishi, Kohei Okafuji, Atsushi Kitamura, Eri Hoshino, Hiroshi Ono, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

Thrombotic disorders (blood coagulation test and Padua Prediction Score for risk of lung thrombosis) in hospitalized patients with community-acquired pneumonia (CAP)

Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Katerina Dyagovets

Is it connection between systemic inflammation and risk of thrombotic disorders (by Padua scale) in hospitalized patients with community-acquired pneumonia (CAP)?

Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva

Evaluation of clinical and operational outcomes of a Point of Care Test for patients with suspected influenza in an acute medical unit.

Mahin Ahmad (Heswall, United Kingdom), Anuradha Jayachandran

The Neutrophil-lymphocyte ratio in patients with community-acquired pneumonia

Meriem Mjid (Tunis, Tunisia), taboubi amir, Sonia Toujani, Safa Ben Khaled, Azza Slim, Abir Hedhli, Sana Cheikhrouhou, Yacine Ouahchi, Samira Merai


Meriem Mjid (Tunis, Tunisia), Amir Taboubi, Abir Hedhli, Sonia Toujani, Safa Ben Khaled, Azza Slim, Sana Cheikh Rouhou, Yacine Ouahchi, Samira Merai
Procalcitonin has wider applicability in community-acquired pneumonia than other biomarkers

IgG3 subclass deficiency as a predictive marker of mortality in patients admitted to ICU

Community-acquired pneumonia (CAP) with cytomegaloviral (CMV) persistence at young adults: prevalence and reciprocal burdening

Verifying the antibiotic selection algorithm in the new Japanese pneumonia guidelines - Is algorithm-discordant treatment associated with increased mortality of healthcare-associated pneumonia?

Community-acquired pneumonia (CAP) with cytomegaloviral (CMV) persistence at young adults: prevalence and reciprocal burdening

Effectiveness of a 23-valent pneumococcal polysaccharide vaccine and a 13-valent pneumococcal conjugate vaccine among the elderly with chronic respiratory diseases

Clinical significance of virus detected community-acquired pneumonia in adults

Uncommon accumulation of multidrug resistance and virulence potential in carbapenemase ST-14 KPC-3 Klebsiella pneumoniae in Portugal: a high risk threat

Hospitalized community-acquired pneumonia in the elderly: etiology and comorbidities

Risk factors for long-term mortality in patients with pneumococcal community-acquired pneumonia

Inhaled antibiotics, pneumonia and bacterial resistance in the ICU

Platelet activation is boosted early in community-acquired pneumonia and sustained until 30 days later

Macrolide resistance has a prognostic impact in bacteremic pneumococcal pneumonia

Predicting the mortality of pneumonia patients visiting the emergency department through machine learning
Thematic poster: Mechanisms of respiratory infection

**Disease(s):** Respiratory infections, Respiratory critical care, Respiratory infections

**Method(s):** Endoscopy and interventional pulmonology, Physiology, Respiratory intensive care, Epidemiology, General respiratory care, Cell and molecular biology

**Chairs:** Charles Dela Cruz (New Haven, United States of America), Mustapha Si-Tahar (Tours, France), Jessica Rademacher (Hannover, Germany), Grant Waterer (Perth (WA), Australia)

PA2644 Three-dimensional lung epithelial cells potentiate aminoglycoside efficacy by enhancing intracellular pH in Pseudomonas aeruginosa
Aurélie Crabbé (Ghent, Belgium), Lisa Ostyn, Charlotte Rigauts, Heleen Van Acker, Martijn Risseeuw, Serge Van Calenbergh, Tom Coenye

PA2645 Characterization of murine model of chronic M. abscessus respiratory infection.
Camilla Riva (Milano (MI), Italy), Floriana Gona, Cristina Cigan, Marco Rossi, Antonio Esposito, Tamara Canu, Anna Colarieti, Alessandra Bragonzi, Enrico Tortoli, Daniela Maria Cirillo

PA2646 Dysregulation of lipid mediators in clinically stable bronchiectasis
Pallavi Bedi (Edinburgh (Scotland), United Kingdom), Donald Davidson, Brian McHugh, Adriano Rossi, Adam Hill

PA2647 Suppressor of cytokine signalling 1 (SOCS1) and asthma exacerbations
Kate Strong (London, United Kingdom), Jie Zhu, David Jackson, Jaideep Dhariwal, Maria-Belen Trujillo-Torralbo, Sebastian Johnston, Michael Edwards

PA2648 The impact of testosterone on Pseudomonas aeruginosa pathogenicity and antimicrobial susceptibility
Celine Vidaillac (Singapore, Singapore), Valtere Yong Lee, Tavleen Kaur Jaggii, Dan Roizman, Jagadish Sankaran, Thorsten Wohland, Liang Yang, Sanjay Haresh Chotirmall

PA2649 Inhaled phage therapy for the treatment of acute Pseudomonas aeruginosa lung infections
Elisa Bodier-Montagutelli (Tours Cedex, France), Jeoffrey Pardessus, Emilie Dalloneau, Cindy Fevre, Guillaume L’Hostis, Eric Morello, Jérôme Gabard, Sandrine Le Guellec, Renaud Respaud, Laurent Vecellio, Nathalie Heuzé-Vourc’H

PA2650 Pseudomonas aeruginosa modulates the pulmonary immune response by affecting the IL17 / IL22 axis
Reem GHINNAGOW (Paris, France), Saadé Kheir, Bérengère Villerot, Nicolas Serafini, Ignacio Garcia-Verdugo, Jean Michel Sallenave
PA2651  Trivalent Influenza Vaccine Responses in COPD
Karl J. Staples (Southampton (Hampshire), United Kingdom), Nicholas P. Williams, Olivia Bonduelle, Andrew J. Hutton, Béhazine Combadière, Tom M.A. Wilkinson

PA2652  Amplified virus infection in a transforming growth factor-beta (TGFß) transgenic mouse model of inflammatory lung disease
Belinda Thomas (Melbourne (VIC), Australia), Keiko Kan-O, Hong-Mei Li, Ian Simpson, Jack Elias, Philip Bardin

PA2653  Exhaled volatile markers analysed using Selected Ion Flow Tube Mass Spectrometry discriminate Pseudomonas aeruginosa and Streptococcus pneumoniae lung infection in a rat model study
Gitte Slingers (Nieuwerkerken, Belgium), Pauline M. Van Oort, Gudrun Koppen, Adrie Maas, Joris J. Roelofs, Marcus Schultz, Philippe Jorens, Marc Raes, Lieve D. Bos

PA2654  Inflammatory exacerbation and inadequate interferone response to RV1b infection in HDM-sensitized lung tissue
Olga Danov (Hannover, Germany), Lisa Laßwitz, Helena Obernolte, Christina Hesse, Armin Braun, Sabine Wronski, Katherina Sewald

PA2655  Rapid in vitro detection of resistant strains by MCC-IMS
Claus Steppert (Bamberg, Germany), Tanja Dick, Isabel Steppert, Thomas Bollinger, Gunther Becher

PA2656  Effects of direct lung dosing of Tobramycin in a rat chronic infection model using Pseudomonas aeruginosa RP73
Mary McErlroy (Edinburgh (Edinburgh), United Kingdom), Senthil Gandi, Islay Cranston, Gerry Melachlan, Steven Wright, James Baily, Susanna Stimpson, Stephen Maddern, Mark Whitmarsh, Alan Young

PA2657  Impact of enzymes and toxins potentiality of four Aspergillus species to cause aspergillosis
Mohamed Fawzy Adam (Assiut, Egypt), Abdel-Naser Zohri, Bassam Aboul-Nasr, Enas Mahmoud Amer

PA2658  Adaptation to oxidative stress induced-lung injury: friend or foe of influenza infection?
Benoit Allard (Chambrillon, France), Erwan Pernet, Jeffrey Downey, Maziar Divangahi, James Martin

Pauline M.P. van Oort (Amsterdam, Netherlands), Paul Brinkman, Gitte Slingers, Gudrun Koppen, Adrie Maas, Joris J. Roelofs, Ronny Schnabel, Dennis Bergmans, Roy Goodacre, Stephen Fowler, Marcus J. Schultz, Lieve D. Bos

TP-20 Session 281  12:50 - 14:40
Thematic poster: Improving the quality of life of patients with bronchiectasis

Disease(s) :  Airway diseases  Respiratory infections  Respiratory infections
Method(s) :  Respiratory intensive care  Imaging  General respiratory patient care  Epidemiology
Chairs :  Pieter Goeminne (Brussels, Belgium), Amelia Shoemark (Dundee (Angus), United Kingdom), Wim G. Boersma (Amsterdam, Netherlands), Michal Shteinberg (Haifa, Israel)

PA2660  Influence of diabetes on serum profiles immune mediators and their association with the severity in patients hospitalized for pneumonia.
Renata Baez-Saldana (Ciudad de Mexico, Mexico), Carlos Lopez-Elizondo, Ricardo Lacurain-Ledesma, Leslie Chavez-Galan, Patricia Gorgina-Rosete

PA2661  Mycobacterium avium complex (MAC)-specific poly-functional CD8 T cells can discriminate MAC pulmonary disease from colonization
Chin-Chung Shu (Taipei, Taiwan), Ping-Huai Wang

PA2662  The medical tactics at repeated pneumonias.
Marina Karakina (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Natalia Ponomareva

PA2663  Lung vessel thrombosis like the reason of mortality at severe community-acquired pneumonia (CAP) of viral and bacterial etiology - autopsy data
Ksenia Bielosladtseva (Dniepropetrovsk, Ukraine), Mariia Krykhina, Katerina Dyagovets

PA2664  Adverse events during treatment of nontuberculous mycobacterial lung disease: do they really matter?
Charlotte Balavoine (Etouy, France), Francois-Xavier Blanc, Philippe Lanotte, Jean Claude Meurice, Claire Andrejak, Sylvain Marchand-Adam

PA2665  Peripheral blood eosinophilia and clinical phenotype in Bronchiectasis
Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Simon Finch, Holy Keir, Thomas Fardon, James Chalmers
PA2666 Factors related to microbiological isolates in patients with Non Cystic-Fibrosis Bronchiectasis (Non-CFBQ)
Jacinto Hernandez Borge (Badajoz, Spain), Miguel Benitez-Cano Gamonoso, Maria Jose Antonia Rodriguez, Maria Teresa Gomez Vizcaino, Pilar Iliggo Naranjo, Pilar Cordero Montero, Amparo Sanz Cabrera, Jose Antonio Gutierrez Lara, Luis Miguel Sierra Murillo, Kaoutar El Boutsibi Faiz, Francisca Lourdes Marquez Perez

PA2667 Prognostic indicators of adult patients with non-CF bronchiectasis and those with combined COPD and non-CF bronchiectasis
Geraldine Lynch (Bristol (Avon), United Kingdom), Caroline McKerr, Adam Massey, Nabil Jarad

PA2668 Lung function decline in patients with bronchiectasis
Michal Shteinberg (Haifa, Israel), Alon Ikan, Yochai Adir, Nili Stein, Sonia Schneer

PA2669 A randomised placebo-controlled dose finding study of tobramycin inhalation powder (TIP) in patients with bronchiectasis (BE) and pulmonary P. aeruginosa (PA) infection (iBEST-1)

PA2670 Quality of life is associated with increased symptom burden and markers of disease severity: data from the German Bronchiectasis Registry PROGNOSIS
Felix C. Ringshausen (Hannover, Germany), Philipp Sokol, Grit Barten, Andrés De Roux, Roland Diel, Stefanie Konwert, Tobias Welte, Marie-Louise Witte, Annegret Zurawski, Jessica Rademacher

PA2671 Paratracheal air cysts in patients with non-CF bronchiectasis
Oxana Munteanu (Chisinau, Republic of Moldova), Irina Volosciuc, Doina Rusu, Eugenia Scutaru, Leonid Onea, Victor Botnaru

PA2672 Validation of the Italian version of Bronchiectasis Quality of Life Questionnaire (QoL-B)
Elisa Franceschi (Milano (MI), Italy), Angela Bellofiore, Cesare Del Monaco, Andrea Gramagna, Fabrizio Nava, Noemi Borsa, Francesco Amati, Martina Contarini, Alinea Quittner, Ilaria Baiardini, Stefano Aliberti, Francesco Blasi

PA2673 Validation of Murray sputum purulence scale in the Italian Registry of Bronchiectasis (IRIDE)
Elisa Franceschi (Milano (MI), Italy), Stefano Aliberti, Federico Morte, Marialma Berlendis, Emanuela De Juli, Salvatore Battaglia, Andrea Gramagna, Francesco Amati, Martina Contarini, Cecilia Calabrese, Valentina Conio, Vittoria Comellini, Nunzio Crimi, Angelo Cossico, Paola Faverio, Sebastian Ferri, Carla Galeone, Francesco Menzella, Stefano Nava, Pierluigi Paggiaro, Nicola Sibichioni, Maurizio Dottorini, Rosa Di Matteo, Meridiana Dodaj, James D Chalmers, Giovanni Sotgiu, Francesco Blasi

PA2674 Etiology, clinical, radiological and microbiological profile of patients with non-CF bronchiectasis in Pakistan. A single center study.
Nadia Sharif (Karachi, Pakistan), Mirza Saifullah, Nisar Rao

PA2675 Effect of prior year pulmonary exacerbation (PE) frequency on response to ARD-3150 in patients with non-cystic fibrosis bronchiectasis (NCFB) chronically infected with Pseudomonas aeruginosa (PA)
James D. Chalmers (Dundee (Angus), United Kingdom), Bruce Thompson, Juergen Froehlich, Angela Davis, Janice Dahms, David Cipolla, Igor Gonda

PA2676 The heterogeneity of bronchiectasis patient characteristics, management and outcomes across Europe: Data from the EMBARC registry
James D. Chalmers (Dundee (Angus), United Kingdom), Eva Polverino, Francesco Blasi, Felix Ringshausen, Anthony De Soya, Montse Vendrell, Pieter Goemminne, Wim Boersma, Charles Haworth, Marlene Murriss, Adam Hill, Michael Loebinger, Rosario Menendez, Antoni Torres, Katerina Dimakou, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti

PA2677 ABPA screening in bronchiectasis: is there a grey zone?
Paola Faverio (Limbiate (MI), Italy), Giulia Bonaiti, Anna Stainer, Federica De Giacomi, Stefano Zucchetti, Bruno Dino Bodini, Francesco Bini, Alberto Pesci

PA2678 Impact of Inflammatory bowel disease in bronchiectasis (IBD-BR) data from the EMBARC registry
Anthony De Soya (Newcastle-upon-Tyne, United Kingdom), James Chalmers, Dimakou K, Adam Hill, Michael Loebinger, Rosario Menendez, Francesco Blasi, Felix Ringshausen, Montserrat Vendrell, Pieter Goemminne, Wim Boersma, Antoni Torres, Tobias Welte, Rob Wilson, Charles Haworth, Marlene Murriss, Eva Polverino, Stefano Aliberti

PA2679 Factors associated with the need of intravenous antibiotics in a cohort of adult patients with non-CF bronchiectasis
Caroline McKerr (Bristol (Avon), United Kingdom), Adam Massey, Geraldine Lynch, Nabil Jarad

PA2680 Etiology of 1805 adult patients with bronchiectasis in western China
Bicui Liu (Chengdu, China), Dan Wang, Chuntiao Liu, Jian Luo, Tingxuan Huang, Binxiao Liang, Xiaohu Wang, Dan Yang

PA2681 Cross-sectional comparison of the bronchiectasis-specific quality of life questionnaires
Arietta Spinou (London, United Kingdom), Georgie Housley, Surinder S Birring, Robert Wilson, Michael R Loebinger
Robustness of assessment of pulmonary endpoints in phase 3 trials with ARD-3150 in non-cystic fibrosis bronchiectasis (NCFB) patients with chronic Pseudomonas aeruginosa (PA) infections
Juergen Froehlich (Hayward, United States of America), Anne O'Donnell, Bruce Thompson, Janice Dahms, David Cipolla, Angela Davis, Igor Gonda, Charles Haworth

Is there a relationship between adventitious respiratory sounds and disease severity in patients with bronchiectasis? A cross-sectional study.
Iciar Tobajas-Sagaste (Ejea de los Caballeros, Spain), Marina Francín-Gallego, Marta San Miguel-Pagola, Juan Antonio Saez-Perez, Beatriz Herrero Cortina

TP-21 Session 282 12:50 - 14:40
Thematic poster: Challenges in tuberculosis care

Disease(s) : Airway diseases, Respiratory critical care, Respiratory infections
Method(s) : Endoscopy and interventional pulmonology, Surgery, Epidemiology, Public health, Cell and molecular biology
Physiology : General respiratory patient care
Chairs : Inês Tavares Ladeira (Vila Nova de Gaia, Portugal), Heinke Kunst (London, United Kingdom), Dumitru Chesov (Chisinau, Republic of Moldova), João Henrique Cordeiro Da Costa (Leiria, Portugal)

Routine liver function test monitoring of patients treated for active M.TB infection does not influence management: A real-world retrospective study
Eshrina Gosal (Nottingham, United Kingdom), Amanda Goodwin, Vidya Navaratnam, Lois Dexter, Anna L Rich

Determinants of lymph node resolution in patients of tubercular lymphadenitis treated with anti tuberculous chemotherapy.
Alkesh Khurana (Bhopal (Madhya Pradesh), India), Vikas Gupta, Deepti Joshi, Abhishek Goyal, Kamendra Paware, Abhijit Pakhare

Mycobacterium tuberculosis resistance profiles in index and secondary TB cases from the same household
Elena Chesov (Chisinau, Republic of Moldova), Greta Balan, Nelly Ciobanu, Dumitru Chesov, Valeriu Crudu

Improved Concordance Between Anti-TB Prescriptions and Treatment Guidelines by Expert Prescription Review in Taiwan
Meng-Jer Hsieh (Taipei, Taiwan), Yi-Wen Huang, Ying-Huang Tsai, Jia-Yih Feng, Wei-Juin Su

Precision medicine in tuberculosis treatment – a role for pharmacogenetics?
Maria Celeste da Silva Alcobia (Coimbra, Portugal), Luis Nogueira, Miguel Villar, Carlos Robalo Cordeiro, Carlos Fontes Ribeiro, Fernando Regateiro, Henriqueta Coimbra Silva

Efficacy of Sensitive Tuberculosis Treatment with Malabsorption Syndrome during IV Administration of Anti-Tuberculosis Drugs
Lilia Todoriko (Chernivtsi, Ukraine), Olena Podverbetskaya, Nikolay Gumenyuk, Mihaylo Kuzhko, Igor SemiAniv, Oleksiy Denisov, Tetiana Sypynsian, Inga Eremenchuk

Lymph node tuberculosis: Criteria for cure and optimal duration of treatment
Sofiane Alilhalassa (El-Madina Alager, Algeria)

Vitamin D levels in patients with active TB: Is it clinically relevant?
Madeleine L B Jacobs (Nottingham, United Kingdom), Eshrina Gosal, Amanda Goodwin, Vidya Navaratnam, Lois Dexter, Anna L Rich

Treatment Outcome of the Retreatment Tuberculosis Patients Under Tuberculosis Controle Programme in a TB Endemic Part of India
Ashwini Kumar Mishra (GORAKHPUR (UTTAR PRADESH), India), Praveen Bahadur Gautam, Santosh Kumar

Fixed-dose combination antituberculosis therapy: is the INH dose adapted for the Tunisian population?
Achraf Ben Tkhayat (Ariana, Tunisia), Soumaya Ben Saad, Hafaoua Daighfous, Fatma Tritar

Effectiveness of REBT psychotherapy approach on reducing cognitive distortions in tubercular patients
Mitra Safa (TEHRAN, Islamic Republic of Iran), Payam Tabarsi, Fatemeh Ghassem Boroujerdi, Bamdad Mirab Zadeh Ardekani, Farzaneh Haji Zadeh
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<td><strong>Thematic poster: Tuberculosis comorbidities</strong></td>
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<td><strong>Disease(s):</strong></td>
<td><strong>Respiratory infections</strong></td>
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<td><strong>Method(s):</strong></td>
<td>Imaging</td>
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<td><strong>Chairs:</strong></td>
<td>Ana Ciobanu (Chisinau, Republic of Moldova), Cécile Magis-Escurra (Nijmegen, Netherlands), Ana Castro (Madail - Oliveira de Azemeis, Portugal), Dennis Falzon (Genève, Switzerland)</td>
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<td><strong>2804</strong></td>
<td><strong>Immunodiagnoses of tuberculosis at the advanced stage of HIV-infection</strong></td>
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<td><strong>Results of TB prophylactics and early detection in HIV-positive people in Moscow, Russia</strong></td>
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<td><strong>2806</strong></td>
<td><strong>To determine the occurrence and natural fate of Immune reconstitution inflammatory syndrome (IRIS) in Human immunodeficiency virus (HIV) negative patients of extra pulmonary tuberculosis (EPTB)</strong></td>
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<td><strong>2807</strong></td>
<td><strong>Totally implantable central venous access device in the treatment of patients with multi- and extensively drug-resistant tuberculosis co-infected with human immunodeficiency virus and with history of illicit drug use.</strong></td>
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<td><strong>Results of treatment of patients with pulmonary tuberculosis combined with HIV infection and hepatitis</strong></td>
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<td><strong>Tuberculosis treatment outcomes in HIV co-infected patients in Novokuznetsk, Russian Federation</strong></td>
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<td><strong>2811</strong></td>
<td><strong>Impact of diabetes mellitus on MDR-TB outcome</strong></td>
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<td><strong>2812</strong></td>
<td><strong>Impact of diabetes mellitus on pulmonary tuberculosis clinical presentation and treatment outcomes</strong></td>
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The impact of diabetes mellitus (DM) on adverse events related to tuberculosis (TB) chemotherapy (ATT): Retrospective cohort study at the National Hospital of Respiratory Diseases, Sri Lanka
Amila Rathnapala (Minuwangoda, Sri Lanka), Damith Rodrigo, Dhanusha Punyadasa, Wijitha Senaratne

The impact of diabetes and pre diabetes on the sputum smear conversion in tuberculosis: Retrospective cohort study at the National Hospital of Respiratory Diseases, Sri Lanka
Amila Rathnapala (Minuwangoda, Sri Lanka), Damith Rodrigo, Wijitha Senaratne, Dhanusha Punyadasa

Cytomegalovirus infection in patients with lung tuberculosis
Alexey Shibanov (Moscow, Russian Federation), Vladimir Stakhanov, Natalia Karazhas

Association lung function disorders and the respiratory muscles strength in patients with tuberculosis (TB) and COPD
Larisa Kiryukhina (St. Petersburg, Russian Federation), Vera Sysoeva, Nina Denisova, Natalia Nefedova, Liudmila Archakova, Piotr Yablonskii

Matrix Metalloproteinases (MMPs) in patients with pulmonary tuberculosis (PT) and comorbid COPD
Diljara Esmedlyaeva (St. Petersburg, Russian Federation), Larisa Kiryukhina, Marina Dyakova

Adenosine deaminase in the COPD pathogenesis in patients with pulmonary tuberculosis
Larisa Kiryukhina (St. Petersburg, Russian Federation), Marina Dyakova, Diljara Esmedlyaeva

Active tuberculosis and lung cancer: a 6-year retrospective study
Joana Sofia Vicente De Carvalho (Bobadela LRS, Portugal), Miguel Afonso, Filipa Ferro, Ana Cysneiros, Teresa Mourato, Alexandre C Gomes, Conceição Gomes, Ana Tavares E Castro

Lung cancer and TB incidence evolution in Portugal
Margarida Souto Vargas-Castanho (Lisboa, Portugal), Sara Cerqueira, Marta Sousa, Marta Gomes, Rita Gaio, Raquel Duarte

Diagnosis of chronic pulmonary aspergillosis (CPA) complicating pulmonary tuberculosis by chest X-ray
Iain Page (Manchester (Greater Manchester), United Kingdom), Rosemary Byanyima, Sharrath Hosmane, Nathan Onyachi, Cyprian Opira, John Owoonya, Malcolm Richardson, Richard Sawyer, Anna Sharman, David Denning

Diabetes, body mass index, and risk of active tuberculosis
Avril Soh (Singapore, Singapore), Cynthia Chee, Yee-Tang Wang, Woon-Puay Koh

Tuberculosis in the very elderly – clinical presentation and treatment outcomes
Miguel Frederico Baia Afonso (Oeiras, Portugal), Filipa Ferro, Ana Cysneiros, Ana Tavares E Castro, Teresa Mourato, Alexandre C Gomes, Conceição Gomes

Role of high resolution computed tomography in childhood tuberculosis diagnosis
Elena Lupu (Chisinau, Republic of Moldova), Stela Kulcitaia, Constantin Ivorschi, Nadejda Pisarenco, Victor Cebotari

Lymph-node puncture benefits in ganglionar childhood tuberculosis
Besma Hamdi (Manouba oued ellil, Tunisia), Serry Jdidi, Hajer Kchok, Iness Moussa, Jamel Ammar, Anissa Berraies, Agnes Hamzaoui

Clinical and epidemiological features of respiratory morbidity in children with latent tuberculosis infection in the Republic of Moldova
Ivorschi Constantin (Chisinau, Republic of Moldova), Irina Sincarenco, Anisa Moscoviuc, Valentia Bolotnikova

MAIT and Tuberculosis in children: a different behavior from adults.
Véronique Houdouin (Paris, France), Ghada Ben Youssef, Lianna Ghazarian, Veronique Durey, Clara Malka, Albert Faye, Sophie Caillat-Zucman

Clinical-laboratory profile of children and adolescents who performed the Rapid molecular-TB test (TRM-TB) in Rio de Janeiro
Rafaela Baroni Aurilio (Rio De Janeiro (RJ), Brazil), Maria De Fátima Bazhuni Pombo March, Clemax Couto Sant Anna, Thania Andrade, Afranio Kritskia, Thiago Malaquias
The dynamics of tuberculosis incidence and diagnostics of latent tuberculosis infection in children of Ukraine.
Olga Bilogortseva (Kyiv, Ukraine)

Use of the Recombinant Tuberculosis Allergen in the Early Diagnosis of Tuberculosis in Paediatric Patients
Tatiana Ivanovna Morozova (Saratov (Saratov Oblast), Russian Federation), Elena Alexandrova

The role of molecular genetic studies of resected samples for M. tuberculosis in children after TB surgery
Irina Petrakova (Moscow, Russian Federation), Marina Gubkina, Elena Larionova, Natalya Yukhimenko

Children with TB treated in the one clinic for childhood TB in Sofia – Bulgaria for the period 2013-2017
Svetlana Velizarova (Sofia, Bulgaria), Natalia Gabrovskva, Maria Paskova

The role of immunological tests in the diagnosis of tuberculosis infection in children with juvenile idiopathic arthritis (JIA)
Dmitry Kudlay (Moscow, Russian Federation), Ludmila Shovkun, Valentina Aksenova, Alexey Sarichev

TB detection in children in Moscow (Russia) as in low TB incidence region
Evgeny Belilovskiy (Moscow, Russian Federation), Valentina Aksenova, Tatyana Sevostyanova, Sergey Borisov, Ludmila Slogodskaya, Luiza Shamuratova

The Efficacy of Screening for Tuberculosis Infection in Paediatric Population in the Republic of Tatarstan
Aleksy Alekseev (Kazan, Russian Federation), Ramziya Fathykho

The characteristics of TB processes in children exposed to household TB
Yulia Khokhlova (Moscow, Russian Federation)

Evaluation of Tuberculin skin test size and risk of tuberculosis in children household contact
Besma Hamdi (Manouba oued ellil, Tunisia), Moussa Ines, Louhaichi Sabrine, Ammari Sarra, Ben Jemai Emna, Ammar Jamel, Berraies Anissa, Hamzaoui Agnes

Latent tuberculosis in healthy children
Larissa Gorbach (Minsk, Belarus)

Tuberculosis in pregnant and postpartum women.
Svetlana Goponiako (Gomel, Belarus), Irina Buynevich, Dmitriy Ruzanov

Particularities of tuberculosis in pregnant women
Oxana Sili (Chisinau, Republic of Moldova), Valentina Vile

Clinical, radiological, évolutive and génétic aspect of pulmonary tuberculosis(PT) in the elderly subject without comorbidities.
Yacine Benbetka (Alger, Algeria), Karim Saadi, Aziza Fissah

Tuberculosis in elderly patients
Cristian Cojocaru (Iasi, Romania), Constantin Cristian Grigoras, Elena Cojocaru, Adriana Grigoras

Chronic pulmonary aspergillosis in patients with post-tuberculosis bronchiectasis
Oxana Munteanu (Chisinau, Republic of Moldova), Irina Volosciuc, Eugenia Seutaru, Victor Botnaru

Predictive factors of sequelae among Tunisian patients treated for pulmonary tuberculosis.
Merie Mjed (Tunis, Tunisia), Safi Ben Khaled, Abir Hedhli, Sonia Toujani, Amir Taboubi, Azza Slim, Sana Cheikh Rouhou, Yacine Ouaachi, Samira Merai

Post tuberculosis sequelae in patients treated for tuberculosis: An observational study at a tertiary care center of a high TB burden country
Maryam Gohar Ali (Hyderabad (Sindh), Pakistan), Zubair Syed Muhammad, Talha Shahzad, Afshan Yaseen, Muhammad Irfan
Long term sequelae of pulmonary tuberculosis and the factors predicting its development: A clinicoradiological study
Jayamol Revendran (Navi Mumbai (Maharashtra), India), Kalpita Patil, Girija Nair, Abhay Uppe, Viral Nanda, Sayli Sawant, Abhishek Nuchin

Clinical manifestation and pulmonary function test after post tuberculosis treatment
Abolfazl Mozaffari (qom, Islamic Republic of Iran), Abolfazl Mozaffari (Tehran, Islamic Republic of Iran)

Post-Tuberculosis Bronchiectasis in India: Outcomes of the Indian EMBARC Registry

Pulmonary function and Quality of Life in patients with treated smear positive pulmonary tuberculosis at three tuberculosis clinics in Nairobi, Kenya
Peter Ngaruiya Mugo (Nairobi, Kenya), Jared Mecha, Chakaya Muhwa

Assessment of lung functions in patients of pulmonary tuberculosis (PTB) after completion of their anti-tubercular medication
Gaurav Gupta, A.S Chitnis

LAMA increases pulmonary lung functions in post-tuberculous destroyed lung patients
Ji Hye Kim (Daejeon, Republic of Korea), In-Beom Jeong, Ji-Woong Son, Mun-Jun Na, Sun-Jung Kwon

Atypical locations of tuberculosis in a pulmonary diagnostic center in Portugal
Margarida Pimenta Queiroz Valério (Abrantes, Portugal), Denny Marques Rodrigues, Eunice Dias, Paulo Cravo Roxo, Catarina Ferreira

Extrapulmonary Tuberculosis: 21 Patients at Western Visayas Medical Center DOTS Clinic, Philippines (January 2016 to December 2017)
Fel Angelie Colon (Iloilo City, Philippines)

Retrospective study of abdominal tuberculosis without pulmonary involvement: a difficult to diagnose form of extrapulmonary tuberculosis
Ana Santos Dormellas Cysneiros (Lisboa, Portugal), Miguel Afonso, Filipa Ferro, Joana Carvalho, Teresa Mourato, Alexandre Gomes, Conceiçao Gomes, Ana Castro

Prevalence of positivity of CBNAAT (cartridge based nucleic acid amplification test) in extra-pulmonary tuberculosis
Mahesh Gupta (Rohtak (Haryana), India), Gopal Purohit, Sunil Vyas

Neutrophil-predominant effusion as a predictive factor for outcome in tuberculous pleurisy
Kanako Katayama (Sakai city, Japan), Kazunari Tsyuguchi, Yu Kurahara, Takehiko Kobayashi, Naoko Takeuchi, Toru Arai, Yoshikazu Inoue, Katsuhiro Suzuki

Differentiating tuberculosis pleuritis from other exudative lymphocytic pleural effusions
Pichaya Petborom (Nakhon Nayok, Thailand), Bothamai Dechates, Panunat Muangnoi

Diagnostic Utility of Closed Needle Pleural Biopsy in Exudative Pleural Effusions
Sameer Bansal (Navi Mumbai (Maharashtra), India), Ketaki Utap, Unnati Desai, Jayotsna Joshi

Use of pleural fluid interferon-gamma enzyme-linked immunoslot (ELISLOT) assay in the evaluation of undiagnosed pleural effusion
Zia Hashim (Lucknow (Uttar Pradesh), India), Alok Nath, Vikas Agarwal, Ravi Mishra

Diagnostic performance of interferon-gamma release assay for tuberculous pericarditis: A systematic review and meta-analysis
Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Tae Hwa Kim, Doo Soo Jeon, Seung Eun Lee, Seong Hoon Yoon, Hye Ju Yeo

Yield of sputum AFB smear, gene xpert & sputum culture of MTB in biopsy proven Pleural Tuberculosis
Kamran Khan (Karachi, Pakistan), Nadeem Rizvi
**Disease(s):** Thoracic oncology  
**Method(s):** Cell and molecular biology, General respiratory patient care, Imaging, Surgery, Endoscopy and interventional pulmonology

**Chairs:** Matthew Evison (Manchester, United Kingdom), Amadea Heitmann (London, United Kingdom), Konstantinos Tzimopoulos (Athens, Greece), Konstantinos Loverdos (Athens, Greece)

**PA2763**
Cardiopulmonary Exercise Test parameters as predictors of postoperative morbidity in lung cancer surgery  
Ana Maria Fortuna Gutierrez (Barcelona, Spain), Marta Lenczewska, J.C. Trujillo Reyes, Elizabeth Martinez Tellez, Nuria Calaf Sordo, Pilar Moros Garces, M.D. Luque Toro, J. Belda Sanchis, Mercé Mayos Pérez

**PA2764**
Preoperative evaluation of patients undergoing lung resection using cardiopulmonary exercise testing in predicting postoperative respiratory complications  
Alice Tašková (Praha 84, Czech Republic), Marie Drösslerová, Vladislav Hytych, Martina Vašáková

**PA2765**
Prognostic role of PET/CT in surgically treated pN0-1 Non-Small-Cell Lung Cancer  
Irina Zemtsova (Saint Petersburg, Russian Federation), Andrey Petrov, Michael Atiukov, Marina Tlostanova, Piotr Yablonski

**PA2766**
Incidental findings in Positron Emission Tomography - Computed Tomography for Lung Cancer Assessment  
Sabrina Black (London, United Kingdom), Tom Nicholson, James Tadjkarimi, Krista Adelmann, Chris Wathen

**PA2767**
Diagnostic accuracy of flexible bronchoscopy for lung cancer diagnosis in an expert center  
Laurent Mhanna (Toulouse, France), Nicolas Guibert, Julien Mazieres, Alain Didier, Gavin Plat, Christophe Hermant

**PA2768**
Core needle biopsy in malignant pulmonary lesions  
Cristina María Carrasco Carrasco (SEVILLA, Spain), Jorge Lima Alvarez, Angela Reina González, Alberto Beiztegui Sillero, Nicolás Peña Griñán

**PA2769**
Feasibility study of cryobiopsy for practical pathological diagnosis including immunohistochemical assessment of primary lung cancer  
TOMOKI NISHIDA (Chigasaki, Kanagawa Pref., Japan), Yuji Matsumoto, Midori Tanaka, Toshiyuki Nakai, Yuichiro Ohe, Shun-Ichi Watanabe, Noriko Motoi

**PA2770**
An 8 year-review of granulomatous inflammation in EBUS samples—common in sarcoidosis, rare but identified in the setting of cancer where FDG uptake can be observed on PET scanning.  
Cathal Tobin-O’Brien (Clonmel, Ireland), Stephen Skehan, Niall Swan, Marie McNally, Marcus Butler, Aurelie Fabre

**PA2771**
A promising tool for T-staging of lung cancer: Is convex probe endobronchial ultrasound better than computerized tomography in determining invasion of mediastinal and hilar vessels?  
Ibrahim Onur Alici (İZMİR, Turkey), Seher Susam, Melike Yuksel Yavuz, Eda Bayramic, Filiz Guldaval, Ceyda Anar, Ahmet Ucvet, Melih Buyuksirin

**PA2772**
Systematic staging through endobronchial ultrasound-guided transbronchial needle aspiration compared with targeted staging in patients with non-small cell lung cancer.  
Leire Mendiluce Ochandorena (BARCELONA, Spain), Pere Serra Mitjà, Jose Sanz Santos, Anabel Moreno García, Carmen Centeno Clemente, Mohamed Torky, Sonia Baeza, Filipe Carvalho, Felipe Andreo García, Jorge Abad Capa

**PA2773**
Comparison of endobronchial ultrasound-guided transbronchial needle aspiration and positron emission tomography standard uptake values in mediastinal or hilar lymph node evaluation in benign, granulomatous and malignant disease  
Nazan Bayram (Gaziantep, Turkey)

**PA2774**
Does a “first sample into the pot” methodology improve the yield to enable molecular testing on samples obtained by EBUS?  
Jenny Messenger (Brighton (Brighton and Hove), United Kingdom), Lukas Kalinke, Emma Short, Sarah Doffman, Mark Howard

**PA2775**
Molecular analysis of peripheral lung adenocarcinoma in brush cytology obtained by endobronchial ultrasound plus fluoroscopy-guided  
Roberto Chalela (Barcelona, Spain), Clara Martín Ontiyuelo, Lara Pijuan Andujar, Raquel Albero Gonzalez, Beatriz Bellosillo Paricio, Alba Dalmases Massegu, Raquel Longaron Rozalen, Victor Curull Serrano, Albert Sanchez Font

**PA2776**
Transbronchial sampling for pulmonary metastasis used by new middle-range bronchoscope with large channel  
Shinji Sasada (Tokyo, Japan), Yuji Matsumoto, Morio Nakamura

**PA2777**
The role of EBUS-TBNA in genetic phenotype determination at adenocarcinoma cases  
Benen Caglayan (İstanbul, Turkey), SÆVDA COMERT, Sinem Iliaz, Ömer Zengin, Pınar Bulutay, Nagehan Barışık
Risk factors for infectious complications after endobronchial ultrasound guided transbronchial biopsy
Tomohide Souma (Nagoyashi, Japan), Tomoyuki Minezawa, Takuya Okamura, Tomoya Horiguchet, Sayako Morikawa, Yusuhito Goto, Masamichi Hayashi, Sumito Isogai, Masashi Kondo, Kazuyoshi Imazumi

Prognostic Impact of Extracapsular Lymph Node Invasion on Survival in non-Small-cell Lung Cancer: a Systematic Review of Medline and Meta-analysis
Seyed Vahid Tabatabaei (Euskirchen, Germany), Christoph Nitche, Maximilian Michel, Kurt Rasche, Khosro Hekmat

The Effect on Chest Tube Drainage of Postoperative Prophylactic Enoxaparin in Patients with Non-Small Cell Lung Cancer
Ferdane Melike Duran (Konya, Turkey), Hıdır Esme, Atilla Can

A comparative study of conventional cytology and cell block method in the diagnosis of malignant pleural effusion.
abdomouleh khouloud (Sfax, Tunisia), Hamdi Besma, Ben Bdira Baraa, Moussa Ines, Ben Jemia Emna, Ammari Sarra, Ammar Jamel, Berraies Anissa, Hamzaoui Agnés

Limited role of Ki-67 in lung carcinoid tumor patients predicting overall short-term survival, A single institution experience
Bernard Budimir (Zagreb, Croatia), Kristina Krpina, Suzana Kukulj, Gordana Drpa, Lela Bitar, Fran Seiwerth, Blanka Čuk, Ante Marušić, J Jopis Grah, Marko Jakopović, Miroslav Samaržija

Downregulation of Thyroid transcription factor 1 in lung adenocarcinoma: the prognostic impact
Nidia Pestana Caires (Funchal, Portugal), Margarida Castanho, Direndra Hasmucrai, Encarnacao Teixeira, Ana Sofia Vilarica, Paula Alves, Renato Soto-Mayor

Prognostic and potential therapeutic impact of prostate specific membrane antigen expression in non-small cell lung cancer
Rainer G. Wiewrodt (Münster, Germany), Lars Henning Schmidt, Arik B. Schulze, Birthe Franziska Heitkoetter, Georg Evers, Christoph Schliemann, Konrad Steinestel, Marcel Trautmann, Alessandro Marra, Ludger Hillejian, Eva Wardelmann, Kambiz Rahbar, Dennis Goerlich, Georg Lenz, Wolfgang E. Berdel, Wolfgang Hartmann, Michael Mohr, Sebastian Huss

Is neutrophil/lymphocyte ratio at the time of diagnosis a valuable prognostic factor in non-small cell lung cancer? Fatma Bodur Yıldırım (Ankara, Turkey), Nurgül Sevimli, Murat TüRK, NilügüN Yılmaz Demirci, Ahmet Selim Yurdakul, Can 0ZUİRK

Clinical usefulness of natural killer cell activity in patients with non-small cell lung cancer
Kwang Ho In (Seoul, Republic of Korea), Sue In Choi, Seung Hyeun Lee, Sang Yeub Lee

Interleukine-17A implicated in survival outcome of patients with late stage lung adenocarcinoma
Yu-Chen Huang (Taoyuan, Taiwan), Yu-CHEN HUANG (Taipei City, Taiwan), Chih-Ming Meng, Meng-Jung Lee, Chun-Hua Wang, Han-Pin Kuo

Cytotoxicity and apoptosis of alveolar lymphocytes (AL) in early clinical stage (I-IIa) of non-small cell lung cancer
(PNCLC)
Piotr Kopinski (Bydgoszcz, Poland), Joanna Golinska, Ewa Wypasek, Arkadiusz Goede, Karina Szablowska, Maciej Gnass, Kamil Brutkowski, Michał Zabczyk, Joanna Chorostowska

The significance of T-box transcription factor 5 and CD44s expression in NSCLC: correlation with prognostic markers.
Eleftheria Chaini (Corfu, Greece), Anna Maria Athanassiadou, Angelos Tsipis, Maria Gonidi, Dimitra Haini, Ioannis Giannopoulos, Kyriakos Hainis, Pauline Athanassiadou

Role of carbohydrate metabolism abnormality in non-small cell lung cancer-related immunoparalysis
Zsolt István Komlósi (Tarnok, Hungary), Gergő Szűcs, Éva Imre, Márton Szentkereszti, György Lósonczy

Association of tissue inhibitor of metalloproteinases 2 and 3 polymorphisms with non-small cell Lung cancer
Chuen-Ming Shih (Taiichung, Taiwan), Yao-Ling Lee
Evaluation of promoter hypermethylation in tissue and blood of non-small cell lung cancer patients and association with survival.
Ashraf Ali (New Delhi (Delhi), India), Kriti Upadhyay, Vinod Kumar Kakaria, Anant Mohan, Wajid Rafi, Kalpana Luthra, Randeep Guleria

The NANCI lncRNA-NKX2-1 gene duplex impacts prognosis in stage I NSCLC.
Jorge Moisés Lafuente (Barcelona, Spain), Alfons Navarro, Sandra Santasusagna, Nuria ViñOlas, José Ramírez, Gerard Frigola, Laureano Molins, Joan Josep Castellano, Sara Morales, Carmen MuñOz, Mariano Monzó, RamoN MariA Marrades

The CYP2A6 gene polymorphism in male Bataknese smoker lung cancer patients and its association with nicotine dependence
Noni Soeroso (Medan, Indonesia), Rozaimah Zain-Hamid, Bintang Ym Sinaga, Ahmad Hamid Sadewa

Expression analysis of miR-223 in plasma of patients with non-small cell lung cancer and other obstructive lung diseases
Dora Marinova (Sofia, Bulgaria), Darina Chakachova, Denitsa Dimitrova, Aleksandar Lilov, Evgeni Mekov, Miroslav Mihailov, Silva Giragosyan, Yanina Slavova, Dimitar Kostadinov, Vanya Youroukova, Rossen Petkov, Atanaska Mitkova, Radka Kaneva, Vanio Minev

Association of Pre-miR-rs2910164 polymorphism with non-small cell lung cancer in an Iranian population
Esmaeil Mortaz (Tehran, Islamic Republic of Iran), Neda K.Dezfoli, Shamila D.Alipour , Adnan Adnan Khosravi , Johan Garssen, Ian Adcock

Comparative gene expression analysis in lung cancer
Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Rafael Larrosa Jiménez, Rocío Bautista Moreno, Josefa Gómez Maldonado, José Luis De La Cruz Rios, Laura González Álvarez, Carmen María López Rodriguez, Manuel Angel Cobo Dols, Manuel Gonzalo Claros Díaz

Evaluation of the Thoracic Revised Cardiac Risk Index as a prognostic factor for survival after lung cancer resection
Teresa Díaz De Teran Lopez (Santander, Spain), Cristina Magadan Alvarez, Kimberley Lee, Pablo Lozano Cuesta, Victoria Maderuelo García, Victor Mora Cuesta, David Iturbe Fernandez, Beatriz Abascal Bolado, Laura Sanchez Moreno

The Khorana score as a predictor of mortality in lung adenocarcinoma
Kostas Syrigos (Athens, Greece), Ioannis Vathiotis, Andriani Charpidou, Paraskevi Boura, Sotirios Tsipoudis, Eleni Kokkotou, Dimitra Grapsa , Evangelos Dimakakos

TP-27

Session 288 12:50 - 14:40

Thematic poster: Lung cancer: modern therapies and beyond

Disease(s) : Thoracic oncology Airway diseases Respiratory infections Interstitial lung diseases Respiratory infections
Method(s) : Surgery General respiratory patient care Epidemiology Cell and molecular biology Endoscopy and interventional pulmonology Imaging

Chairs : Katherina Bernadette Sreter (Zagreb, Croatia), Rainer G. Wiewrodt (Münster, Germany), Katja Mohorcic (Trzic, Slovenia), Lykourgos Koliakos (Athens, Greece)

Ratio And Regional Distribution Of Genetic Mutation In Lung Cancer In Turkey (REDIGMA)

Prognosis of uncommon metastasis in non-small-cell lung cancer patients with mutated EGFR
Akihiro Yoshimura (Kyoto, Japan), Taisuke Tsuji, Chieko Takumi, Ryosuke Hamashima, Shinsuke Shiotsu, Tatsuya Yuba, Noriya Hiraoka

Efficacy of Afatinib, Erlotinib, and Gefitinib on epidermal growth factor receptor (EGFR) mutant non-small cell lung cancer (NSCLC) patients with brain metastasis: a network meta-analysis
So-My Koo (Seoul, Republic of Korea), Ki-Up Kim, Yang-Ki Kim, Soo-Taek Uh

Comparison of re-biopsy success rates among procedures and sequential changes of EBUS images
Kei Morikawa (Kawasaki (Kanagawa), Japan), Takeo Inoue, Masamichi Mineshita, Teruomi Miyazawa

Expression status of PD-L1 in NSCLC correlates with disease extension
Aya Yamamoto (Amagasaki, Japan), Takashi Iwata
Expression of PD1, COPD and lung cancer.
Francisco Javier Verdu Rivera (, Spain), Vanesa Cunill Monjo, Maria Isabel Luna Lopez, Valero Andreu Matillas, Amanda Iglesias Coma, Jaime Pons De Ves, Alberto Alonso Fernandez, Francisco De Borja Garcia-Cosio Piqueras, Maria Cerda Moncadas, Jaume Sauleda Roig

Retrospective analysis of tumor programmed death-ligand 1 expression in transbronchial biopsy samples
Hirofumi Takahashi (Sapporo, Japan), Naofumi Shinagawa, Yutaka Hatanaka, Mamoru Kunisaki, Megumi Furuta, Yuuta Takashima, Tetuaki Shouji, Hidenori Kitai, Hajime Kikuchi, Hidenori Mizugaki, Hajime Asahina, Eiki Kikuchi, Yunko Kikuchi, Jyun Sakakibara, Yoshio Matsuno, Masaharu Nishimura

Benefit of immune checkpoint inhibitors (ICIs) for second-line treatment of advanced non-small cell lung cancer (NSCLC) using restricted mean survival time (RMST).
Perrine Créquit (Paris, France), Alexandre Vivot, Raphael Porcher, Jacques Cadranel

Hyper-progressive disease in patients with advanced non-small cell lung cancer (NSCLC) treated with nivolumab (nivo)
Adrien Costantini (Paris, France), Jennifer Corny, Vincent Fallet, Sophie Renet, Sylvie Friard, Christos Chouaid, Boris Duchemann, Etienne Giroux-Leprieur, Laurent Taillade, Ludovic Doucet, Marina Nguyen, Stephane Jouveshomme, Marie Wislez, Jean Tredaniel, Jacques Cadranel

Different Th1 and Th2 cytokine profile in serum and tumor microcirculation of SCLC and NSCLC patients
Marija Karlicic (Beograd, Republic of Serbia), Vukoica Karlicic, Danilo Vojvodic

Pleural and systemic cytokute expression profiles in patients with lung cancer
David Betz (Munich, Germany), Rudolf Maria Huber, Diego Kauffmann-Guerrero, Kathrin Kahnert, Sebastian Koblod, Pontus Mertsch, Rosemarie Kiefl, Marina Schaule, Julia Stump, Amanda Tufman

Radiographic findings after stereotactic radiotherapy for lung carcinoma: retrospective analysis of 90 patients
Inès Menoux (Strasbourg, France), Delphine Antoni, Nicola Santelmo, Pierre Truntzer, Catherine Schumacher, Aissam Labani, Georges NoëL

How to predict fatal pneumonitis in non-small cell lung cancer (NSCLC) patients treated with radiotherapy (RT)
Jaume Bordas Martinez (Barcelona, Spain), Cristina Martin Cabeza, Susana Padrones Sanchez, Ramon Palmero Sanchez, Ernest Nadal Alforja, Valentin Navarro Perez, Jordi Dorca Sargatal, Arturo Navarro Martin, Samantha Aso Gonzalez

Characteristics of radiation pneumonitis and lung function after curatively intended radiotherapy in non-small cell lung carcinoma
Janna Berg (Porsgrunn, Norway), Ann Rita Halvorsen, Jon Olav Haugstvedt, May-Bente Bengtson, Odd Terje Brustugun, Åslaug Helland

Pulmonary tuberculosis and lung cancer: simultaneous and sequential occurrence
Berna Kımürçüoğlu (Izmir, Turkey), Aysen Evkan, Gulru Polat, Selvket Dereli

Characterization and management of elderly and very elderly patients with non-small cell lung cancer
Vera Cláudia Oliveira Clérico (Lisboa, Portugal), Direntra Hasmucrai, Encarnação Teixeira, Paula Alves, Ana Vilarica, Renato Sotto-Mayor

Prevalence of and risk factors for pulmonary complications after lung cancer surgery in elderly patients with preserved lung function
Yunjoo Im (Seoul, Republic of Korea), Sumin Shin, Sun Hye Shin, Hyun-II Gil, Hyun Lee, Ho Yun Lee, Jhingook Kim, Hye Yun Park

Clinical Features and Treatment Outcome of Carcinomatous Pericarditis due to Lung Cancer
Yoko Kida (Kobe, Japan), Yusuke Inui, Kouki Sato, Rikiya Koketsu, Toshiyasu Sakurai, Kimihide Tada, Akihiko Ikeda, Kimio Hashimoto, Nobuyuki Katakami

Tracheal Chondrosarcoma Masquerading as COPD
Dayle Terrington (King's Lynn (Norfolk), United Kingdom), Anshu Punjabi, Amyn Bhamani, Ajay Kamath

Thematic poster: Lung cancer: risk factors, supportive measures and quality improvement
Method(s) : Respiratory intensive care Endoscopy and interventional pulmonology Public health Epidemiology General respiratory patient care
Residential radon and lung cancer risk in never smokers in a radon prone area in Spain.

Maria Torres-Durán (Vigo (Pontevedra), Spain), María Lorenzo Gonzalez, Isaara Parente Lamelas, Virginia Leiro Fernandez, José Abal Arca, Carmen Montero Martínez, Olalla Castro Anon, Mariano Provencio Pulía, Iria Vidal García, Antonio Golpe Gómez, Cristina Martínez, Roxirys Guzman Taveras, Margarita Amenedo Gancedo, Alberto Fernandez Villar, Juan Miguel Barros Dios, Alberto Ruano Ravina

Prospective association between sedentary lifestyle and incidence of lung cancer in Norwegian adults: the HUNT study

Lin Jiang (Trondheim, Norway), Yi-Qian Sun, Ben Michael Brumpton, Arnulf Langhammer, Yue Chen, Tom Ivar Lund Nilsen, Xiao-Mei Mai

Anemia during lung cancer

Souad Souilah (Alger, Algeria), Nesrine Dermech, Yacine Benbetka, Nassima Djam, Karim Khennouf, Rabah Amrane, Aziza Fissah

EFFICACY OF IRON REPLETION WITHOUT ERYTHROPOIESIS-STIMULATING AGENT IN PATIENTS WITH CHEMOTHERAPY-INDUCED ANEMIA IN LUNG CANCER

Raja Dhar (Kolkata (West Bengal), India), Shyam Krishnan, Shubham Sharma, Praveen Kumar Shahi, Gourishankar Bhattacharya

Pegfilgrastim drastically lowered risk of febrile neutropenia in Japanese patients with thoracic malignancy receiving chemotherapy - a retrospective single institutional study

Takashi Iwata (Osaka, Japan), Aya Yamamoto

Music prior to bronchoscopy reduces anxiety in patients with suspected lung cancer

Elisabeth Jeppesen (København, Denmark), Carsten Pedersen, Klaus Larsen, Emil Walsted, Anne Rehl, Julie Ehrenreich, Sascha Schnoor, Vibeke Backer

Gender aspects in quality of life of lung cancer patients


Socioeconomic status and lung cancer pathways in southeast London: Friend or Foe?

Amadea Heitmann (London, United Kingdom), Priyanka Iyer, Haridha Pandian, Georgia Hardavella

Time in lung cancer diagnosis and its prognostic implication

Ana Mas Esteve (Lleida, Spain), Dinora Polanco Alonso, Sandra Bertran Mèlines, Gemma Fierro Barbàres, Estefanía Galera Lozano, Asunción Seminario Ruiz, Guillermo Suárez Cuartín, Silvia Gómez Falguera, Manel Vilà Justribó, Ferran Barbé Illa

Diagnosis, treatment and doctor delays in lung cancer patients who had diagnostic fiberoptic bronchoscopy at Pamukkale University Pulmonary Diseases Clinic

Feride Marim (Artvin, Turkey), Sevin Başer Öncel, Binnaz Fatma Ev Yaplan, Hande Şenol

The causes of the delay in diagnosis bronchopulmonary cancer

Ibrahim Arosi (Manchester (Greater Manchester), United Kingdom), Karl Heyes, Vee Sibanda, Ram Sundar
ERS 2018 International Congress
DETAILED PROGRAMME
MONDAY 17 SEPTEMBER, 2018
PA2836

Quality performance indicators in lung cancer;learning and reflecting on mortality data
Georgia Hardavella (London, United Kingdom), Carla Hobart, Richard Turner, Geoffrey Warwick, Lizzie Hadley, Amadea
Heitmann, Polly Edmonds

PA2837

Quality indicators in lung cancer care-review of resection rates in early stage NSCLC (non small cell lung cancer) at
King’s
Priyanka Iyer (London, United Kingdom), Amadea Heitmann, Haridha Pandian, Carla Hobart, Georgia Hardavella

PA2838

When lung cancer was rare: An historical study of prevalence from 1760 .
Luc Ollivier (Brest, France), Philippe Saliou, Olivier Pradier, Gilles Quéré, Renaud Descourt, André Smolarz, Paul Bore,
Karima Cherid, Anne-Sophie Blot, Guillaume Le Bihan, Francois Sassier, Charles Orione, Ulrike Schick, Christophe Roge

TP-29

Session 290

Thematic poster: Lung cancer: from the bench to the bedside

12:50 - 14:40

Disease(s) : Thoracic oncology

Method(s) : Cell and molecular biology General respiratory patient care Physiology
Chairs : Giulia Maria Stella (Pavia (PV), Italy), Daniela Xhemalaj (Tirana, Albania), Eleftherios Zervas (Athens, Greece), Torsten Gerriet
Blum (Berlin, Germany)

PA2839

LSC - 2018 - Tumor-derived granulocyte chemotactic protein 2 cooperates with neutrophil proteinase 3 to drive lun
g adenocarcinoma
Anne-Sophie Lamort (München, Germany), Stefanie A Weiß (stefanie.weiss@helmholtz-muenchen.de / Comprehensive
Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL),Munich),
Ioannis Lillis (ioannislilis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology,
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Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research
(DZL),Munich)

PA2840

LSC - 2018 - Nuclear factor ??-signalling drives Malignant Pleural Mesothelioma
Ioanna Giopanou (Rio (Patras), Greece), Dimitris Simoglou (dsimoglou@gmail.com / Laboratory for Molecular Respiratory
Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Patras), Marina Lianou
(marina_lianou@hotmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of
Medicine, University of Patras,Patras), Georgios T Stathopoulos (gstathop@upatras.gr / Laboratory for Molecular
Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Patras)

PA2841

Alteration patterns of tobacco carcinogens in lung adenocarcinoma reveal novel KRAS-addicted candidate
oncogenes
Mario Pepe (München, Germany), Francesco Pelizza, Anne-Sophie Lamort, Nikolaos I. Kanellakis, Georgios T.
Stathopoulos

PA2842

Depletion of STAT6 suppresses lung cancer progression through regulating M2-macrophage polarization
Cuiping Fu (, China), Shanqun Li

PA2843

Ghrelin does not influence cancer progression in a lung cancer cell line and mice with lung adenocarcinoma
Hironobu Tsubouchi (Kiyotake (Miyazaki prefecture), Japan), Ayako Miura, Shigehisa Yanagi, Masamitsu Nakazato

PA2844

The influence of brown adipose tissue on the proliferation and chemosensitivity in non-small cell lung cancer cells
Armin Frille (Leipzig, Germany), Hartmut Kuhn, Thomas Ebert, Hans-Juergen Seyfarth, Hubert Wirtz

232
194

12.09.2018


PA2845 The influence of non-small cell lung cancer cells on the expression of adipokines in brown adipose tissue
Armin Frille (Leipzig, Germany), Hartmut Kuhn, Thomas Ebert, Hans-Juergen Seyfarth, Hubert Wirtz

PA2846 Tissue factor induced tumor vascular infarction in lung cancer
Rainer G. Wiewrodt (Münster, Germany), Lars Henning Schmidt, Caroline Brand, Janine Stucke-Ring, Saliha Harrach, Christoph Schlismann, Alessandro Marra, Ludger Hillejan, Carsten Mueller-Tidow, Georg Lenz, Eva Wardelmann, Thomas Muley, Esther Herpel, Michael Mohr, Dennis Goerlich, Michael Kreuter, Michael Thomas, Christian Schweppe, Wolfgang Hartmann, Wolfgang E. Berdel

PA2847 Micro RNA-21 Targeting PI3K/PTEN/Akt signaling axis regulates multiple biological functions in human lung cancer
Yonghua Zheng (Shanghai, China), Ding Zhang

PA2848 Specific lung cancer peptides selected by a subtractive 3D cell-phage display technology
Larissa Prado Maia (Uberlandia, Brazil), Emília Rezende Vaz, Aline Gomes Souza, Rodrigo Miquelanti Melo, Thulio Marquez Cunha, Luiz Ricardo Goulart

PA2849 Analyzing the role of proteasome activator 200 (PA200) in lung cancer
Vanessa Welk (München, Germany), Thomas Meul, Christina Lukas, Deniz Bölükbas, Ina Koch, Michael Lindner, Silke Meiners

PA2850 Generation of small molecules targeting hypoxia inducible factors
Yasemin Saygi deger (Adana, Turkey), Demet Kahraman, Sedat Ilhan, Tugba Taskin Tok, Eyüp Başaran, Aysegul iyidogan, Aykut Üren, Elcin Emre, Hasan Bayram

PA2851 Modulation of tumor-microenvironmental factors and cancer growth in co-cultures of fresh human lung tissue and patient-derived cancer cells
Sebastian Konzok (HANNOVER, Germany), Susann Dehmel, Christian Werno, Peter Braubach, Gregor Warnecke, Patrick Zardo, Danny Jonigk, Olaf Plennig, Hans-Gerd Fieguth, Bernhard Polzer, Kathrin Weidele, Christoph Klein, Armin Braun, Katherina Sewald

PA2852 Prognostic value of EGFR genotype in EGFR-mutant non-small cell lung cancer
Kostas Syrigos (Athens, Greece), Ilias Kottees, Maria Paraskeva, Ioannis Gki ozos, Paraskevi Boura, Sofia Tsagouli, Dimitra Grapsa, Andriani Charpidou

PA2853 Uncommon EGFR mutations of lung adenocarcinoma in one tertiary institution, Korea: clinical characteristics and treatment response to tyrosine kinase inhibitors
Jung Hyun Chang (Seoul, Republic of Korea), Yeji Han, Yon Ju Ryu, Jin Hwa Lee

PA2854 Blocking beta adrenergic signaling may be a target for overcoming EGFR TKI resistance.
Eun Young Heo (Seoul, Republic of Korea), Myungjin Lee, Jung-Kyu Lee, Deog Kyeom Kim, Hee Soon Chang

PA2855 The impact of β-blockers in non–small cell lung cancer patients treated with Epidermal Growth Factor Receptor Kinase Inhibitors, Taiwan NHIRD database study.
Guin Wei Fan (Taipei, Taiwan), Chun Yu Lin

PA2856 Metformin improves survival in lung cancer patients receiving EGFR-TKIs therapy.
Ming-Szu Hung (Puzi city, Taiwan), Min-Chun Chuang, Ying-Huang Tsai, Yao-Hsu Yang

PA2857 Association of antiPD1 immunotherapy with immunogenic cell death-inducing chemotherapy in a murine model of squamous cell lung cancer
Mathilde Jeanvoine (Bonsecours, France), Florian Guisier, Pierre Bohn, Luc Thiberville, Mathieu Salaun

PA2858 Immune Checkpoint Inhibitors-related Interstitial Lung Disease in patients with thoracic tumors: experience of one institution
Filipa Ramalho Fernandes (Alcanena, Portugal), Teresa Almodovar, Isabel Duarte, Duro Da Costa

TP-30 Session 291 12:50 - 14:40
Thematic poster: Mesothelioma and pleural malignancy: investigations and management

Disease(s) : Thoracic oncology, Respiratory infections, Respiratory critical care, Respiratory infections

Method(s) : Epidemiology, Surgery, Physiology, Cell and molecular biology, Endoscopy and interventional pulmonology, General respiratory patient care

Chairs : Julius P. Jannsen (Nijmegen, Netherlands), Mohammed Munavvar (Preston (Lancashire), United Kingdom), Rafa Krenke (Laski, Poland), Sotiros Zarogiannis (Larisa, Greece)
PA2859 5-hydroxymethylcytosine but not MTAP methylation status can stratify malignant pleural mesothelioma based on the lineage of origin
Giulia Maria Stella (Pavia (PV), Italy), Matteo Bosio, Elena Salvaterra, Patrizia Morbini, Michele Zorzetto, Simona Inghilleri, Stefano Tomaselli, Patrizia Mangiarotti, Francesca Datturi, Federica Meloni, Isa Cerveri

PA2860 In the era of personalised medicine, is pleural fluid cytology sufficient for oncological treatment?
Rachel Mercer (Guildford (Surrey), United Kingdom), David Mccracken, Rachelle Asciak, Robert Hallifax, Maged Hassan, Eihab Bedawi, Najib Rahman

PA2861 Targeting of CSF1R abrogates Lewis Lung adenocarcinoma-induced malignant pleural effusion
Ioannis Kalomenidis (Athens, Greece), Sophia Magkouta, Chrysavgı Kosti, Photene Vaitsi, Apostolos Pappas, Charalampos Moschos, Mariathanii Illopoulou, Katerina Psarra

PA2862 Treatment with Anti-VEGF and anti-EGFR in a model of malignant pleural effusion: Genic evaluation
Lisette Ribeiro Teixeira (São Paulo (SP), Brazil), Vanessa Alvarenga, Roberta Sales, Carlos Silva, Nicole Almeida, Lucas Sousa, Ana Santos, Vera Capelozzi, Evaldo Marchi, Milena Acencio

PA2863 Role of markers C-Reactive Protein, Procalcitonin and TREM-1 in diagnosis of infection pleural effusion
Lisette Ribeiro Teixeira (São Paulo (SP), Brazil), Vanessa Alvarenga, Milena Acencio, Roberta Sales, Aline Silva, Jucara Silva, Carlos Silva, Evaldo Marchi

PA2864 Water and urea transport in benign and malignant pleural mesothelial cells.
Evgeniy Solenov (Novosibirsk, Russian Federation), Alexander Ershov, Galina Baturina, Lubov Katkova, Chrissi Hatzoglou, Konstantinos Gourgoulianos, Sotirios Zarogiannis

PA2865 ADAM10 membrane-bound protease mediates malignant pleural mesothelioma invasiveness
Didier Cataldo (Liege , Belgium), Christelle Sepult, Marine Bellefroid, Christine Gilles, Andreas Ludwig, Bernard Duysinx, Agnés Noel

PA2866 Effects of 2-Deoxy-glucose with Cisplatin-Pemetrexed in mesothelioma sphere formation.
Rajesh Jagirdar (Larissa, Greece), Irini Georgianni, Eleanna Pitaraki, Eleftherios Papazoglou, Chrissy Hatzoglou, Konstantinos Gourgoulianos, Sotirios Zarogiannis

PA2867 Cytology, chest computed and positron emission tomography correlations in lung cancer malignant pleural effusion.
Clement Brun (Saint-Etienne, France), Pierre Gay, Michelle Cottier, Georgia Karpapthiou, Fabrice-Guy Barral, Jean-Michel Vergnon, Marios E. Froudarakis

PA2868 Investigating unilateral pleural effusions: the role of cytology.
David Arnold (Bristol (Avon), United Kingdom), David Arnold (, Australia), Duneesha De Fonseka, Siobhan Perry, Andrew Medford, Mary Brett, Nick Maskell

PA2869 The use of immunocytochemistry to diagnose the etiology of malignant pleural effusion.
Aleksey Reshetov (St. Petersburg, Russian Federation), Vasily Klimenko, Victor Novik, Oleg Ivanov, Dmitry Ermakov

PA2870 Red cell distribution width value as a novel biomarker for exudative pleural fluid.
Akbar Sharifi (Tabriz, Islamic Republic of Iran), Dorraji Amir

PA2871 Differences in the pathological patterns of non-specific pleuritis (NSP).
Georgia Karpapthiou (Saint-Etienne, France), Sirine Hathroubi, Arnaud Patoir, Olivier Tiffet, Francois Casteillo, Clement Brun, Fabien Forest, Najib M. Rahman, Michel Peoc’h, Marios E. Froudarakis

PA2872 Comparison of pleural fluid pH measurements: blood gas analyzer, pH indicator stick, litmus paper, and point-of-care testing for blood gases
Sang-Ha Kim (Wonju, Republic of Korea), Beomsu Shin, Seok Jeong Lee, Myoung Kyu Lee, Won-Yeon Lee, Suk Joong Yong

PA2873 Impact of a pleural pathology unit in a third level hospital
Ines Ruiz Alvarez (Oviedo, Spain), Francisco Lopez Gonzalez, Ana Isabel Enrique Rodriguez, Tamara Hermida Valverde, Carmen Osoro Suarez, Julia Herrero Huertas, Andres Ortiz Reyes, Ariel Morena Bernando, Lucia Garcia Alfonso, Pere Casan Clara

PA2874 Percirardial and pleural metastases: clinical and histological differences
Georgia Karpapthiou (Saint-Etienne, France), Mousa Mobarki, Sirine Hathroubi, Marie Laure Stachowicz, Arnaud Patoir, Olivier Tiffet, Michel Peoc’h, Marios Froudarakis

PA2875 Rotation Aiding (RA’s) technique for EBUS-TBNA biopsy of intrathoracic lymph node: a comparison of conventional Jab method
Seung Won Ra (Ulsan, Republic of Korea), Woon Jung Kwon, Yongjik Lee, Chang-Ryul Park, Hee Jeong Cha, Byung Ju Kang, Taehoon Lee, Yangjin Jegal, Jong-Joon Ahn, Youngjoon Chee, Kwang Wond Seo
Malignant Mesothelioma (MM) is still the leading cause of death in Karain villagers in Turkey and/or abroad due to erionite exposure.

A. Salih Emri (Istanbul, Turkey), Dorina Esendagli, Michele Carbone

Thematic poster: Clinical management of pleural malignancies, including mesothelioma

Disease(s): Thoracic oncology

Method(s): Epidemiology, Endoscopy and interventional pulmonology, Cell and molecular biology, General respiratory patient care, Imaging, Surgery

Chairs: Kevin Blyth (Glasgow (Glasgow), United Kingdom), Coenraad Frederik Nicolaas Koegelenberg (Cape Town, South Africa), Alex West (London, United Kingdom), Marios E. Froudarakis (Alexandroupolis, Greece)

Single-center prospective study on clinical evolution of non-specific pleuritis

Federico Mei (Ancona (AN), Italy), Martina Bonifazi, Lina Zuccatosta, Francesca Barbisan, Michele Sediari, Stefano Gasparini

The clinical benefits of immune checkpoint inhibitors for thymic carcinomas

Naohiro Uchida (Kyoto, Japan), Kohei Fujita, Osamu Kanai, Mssato Okamura, Koichi Nakatani, Tadashi Mio

The Role of PET-CT in differential diagnosis of malignant-paramalignant pleural effusion

Elif Torun Parmaksiz (Istanbul, Turkey), BüLent Akkurt, CoşKun DoğAn, Seda Beyhan SağMen, Nesrin KiRal, Sevda ÇoMert, Ali Fidan, Saadet Akkuş

Determinants of survival in patients with malignant pleural mesothelioma (MPM) managed at a single institution in Liguria, Italy

Annamaria Carletti (Sarzana (SP), Italy), Lucia Benfatto, Vanna Balestracci, Pier Aldo Canessa

Predictors of pleurodesis success

Rachel Mercer (Guildford (Surrey), United Kingdom), Nicole Speck, Hannah Jeffries, Jessica Macready, Nikolaos Kanellakis, Nick Maskell, Justin Pepperell, Tarek Saba, Alex West, Nabeel Ali, Robert Miller, John Corcoran, Rachelle Asciak, Maged Hassan, Robert Hallifax, Ioannis Psalidas, Najib Rahman

The patient perspective of treatment for Malignant Pleural Effusion (MPE)- results of a pilot service-evaluation questionnaire.

Jack Seymour (Wallingford (Oxfordshire), United Kingdom), Ioannis Psalidas, Melissa Dobson, Najib Rahman

ANALYSIS OF INITIAL NON-CONCLUSIVE THORACOSCOPIES WITH A DIAGNOSIS OF MALIGNANCY OBTAINED DURING LONG-TERM FOLLOW-UP OF RECURRENT EXUDATIVE PLEURAL EFFUSIONS

Beatriz Romero Romero (Sevilla, Spain), Luis Alejandro Padron Fraysse, Beatriz Romero Romero, Francisco Rodriguez Panadero, Jose Martin Juan

Clinical and histological analysis of malignant mesothelioma - a comprehensive state-wide study

Rainer G. Wiewrodt (Münster, Germany), Nicola Pferdmenges, Volker Krieg, Arik Bernard Schulze, Hiltraud Kajueter, Georg Evers, Michael Mohr, Lars Henning Schmidt, Hans-Werner Hense, Oliver Heidinger

Iodopovidone pleurodesis, different techniques, excellent efficacy in malignant pleural effusion.. Tanta University experience

Ragia Samir Sharshar (Tanta, Egypt)

Is there a need for Video-assisted Thoracoscopic surgical (VATS) pleural biopsy following a Medical Thoracoscopy (MT)?

Mohamed Akram Abdulla (Sheffield (South Yorkshire), United Kingdom), John Hadfield, Thida Aung, Ayman El-Nayal

US guided true cut needle biopsy in patients with malignant mesothelioma

Rosen Petkov (Sofia, Bulgaria), Teodora Mihalova, Yordanka Yamakova, Georgi Yankov

Relationship between baseline metabolic 18F-FDG parameters and survival in malignant pleural mesothelioma: A single centre experience

Yusuf Kahya (Ankara, Turkey), Çiğdem Soydal, Mustafa Bülent Yenigün, Elgin Özkan, Nihat Ata Tutkun, Serkan Enön, Nuriye Ozlem Kıcık, Ayten Kayı Çangır

A comparison of outcomes from a regional Mesothelioma MDT against the National Lung Cancer Audit (NLCA) Mesothelioma standards

Maryam Ahmed (Manchester, United Kingdom), Judith Lyons, Susan Jackson, Anna Sharman, Mairead Dixon, Paul Taylor, Jayne Holme, Matthew Evison

Survival of patients with malignant pleural effusions: a three-year prospective self-experience study

Filip Shterev (Plovdiv, Bulgaria), Ivan Novakov, Filip Sterev
Assessing breathlessness following pleural fluid drainage using the Visual Analogue Scale for Dyspnoea (VASD) over 1 week (7-DVQ)
Radhika Banka (Mumbai (Maharashtra), India), Eleanor Mishra

EBUS-TBNA for the diagnosis of intrathoracic lymphadenopathy in patients with previously diagnosed breast carcinoma
Nevenka Piskač Živković (Zagreb, Croatia), Anja Ljilja, Nina Petra Novak, Neven Tudorić

Evaluation of chemotherapy response determined by volumetric method in malignant pleural mesothelioma and its effect on determination to survival
Muzaffer Metintas (Eskişehir, Turkey), Furkan Urfali, Selma Metintas, Atila Gürün, Güntülü Ak, Ragip Ozkan

Cisplatin/pemetrexed chemotherapy versus palliative care survival in malignant pleural mesothelioma
Emilija Lozo Vukovac (Split, Croatia), Ivan Škopljanc, Ivana Segrt, Kornelija Mise, Anita Tolic Biocina

Effects of cisplatin and pemetrexed on 3D phenotypes of benign mesothelial and malignant pleural mesothelioma cells
Eleftherios Papazoglou (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitaraki, Ourania Kotsiou, Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis

Thematic poster: Consequences of idiopathic interstitial pneumonias

Thematic poster: Consequences of idiopathic interstitial pneumonias

Late Breaking Abstract - Calpain regulates epithelial-mesenchymal transition and its correlation with Akt signaling in pulmonary fibrosis.
Yuan Liu (, China), Bing Liu, Jingfeng Zou, Menglin Zou, Zhenshun Cheng

Prognostic and functional significance of osteoporosis and vitamin D deficiency in interstitial lung diseases
Vivien Somogyi (Heidelberg, Germany), Carlos Francisco Silva, Simon Triphan, Monika Eichinger, Michael Kreuter

Depression is a predominant symptom among hypogonadism male patients with Interstitial Pulmonary Fibrosis
Doaa Magdy (Assiut, Egypt), Doaa Magdy, ahmed metwally, Randa El Zohne

Validity and responsiveness of the Euro-Qol-5 Dimensions-5 Levels (EQ5DSL) in IPF
Claire M. Nolan (London, United Kingdom), Matthew Maddocks, Toby M Maher, Sarah E Jones, Suhani Patel, Ruth E Barker, Peter M George, William D-C Man

Prevalence and clinical relevance of comorbidities in IPF
Ermanno Puxeddu (Roma (RM), Italy), Luigi Calzetta, Annapina Barrile, Francesco Cavalli, Alfredo Sebastiani, Mario Cazzola, Paola Rogliani

Validation of the King’s Brief Interstitial Lung Disease questionnaire in Danish
Thomas Skovhus Prior (Århus N, Denmark), Ole Hilberg, Surinder Birring, Elisabeth Bendstrup

Vitamin D predicts disease progression in patients with pulmonary fibrosis and blunts in-vitro fibrotic responses
Vasilios Tzilas (Athens, Greece), Argyris Tzouveleakis, Evangelos Bouros, Thodoris Karampitsakos, Sofia Kourtidou, Ilianna Barbayianni, Ioanna Ninou, Vasilis Aidinis, Demosthenes Bouros

Diagnosis and therapy of acute exacerbations of idiopathic pulmonary fibrosis (AE-IPF) in Germany
Markus Polke (Heidelberg, Germany), Juergen Behr, Hans-Joachim Kabitz, Claus Neurohr, Gabriela Leuschner, Antje Prasse, Francesco Bonella, Dirk Koschel, Julia Wälscher, Michael Kreuter

Evaluation of Dyspnea Questionnaires in Patients with Idiopathic Pulmonary Fibrosis (IPF).
Onofre Moran Mendoza (Kingston (ON), Canada), Sharina Aldaheri, Sami Alyami, Maxine Kish, Sean Davison

Prognostic impact of the pulmonary artery size on chest computed tomography in Idiopathic Pulmonary Fibrosis patients
Ji Soo Choi (Seoul, Republic of Korea), Sung Woo Moon, Se Hyun Kwak, Ju Hye Shin, Song Yee Kim

Different characteristics and outcomes of acute exacerbation: comparison between interstitial pneumonia with autoimmune features and lone idiopathic interstitial pneumonia.
Ryobu Mori (Kobe, Japan), Mariko Kogo, Kazutaka Hosoya, Hayato Kawachi, Ryosuke Hirabayashi, Munehiro Ito, Daichi Fujimoto, Kazuma Nagata, Ryo Tachikawa, Atsushi Nakagawa, Kojiro Otsuka, Keisuke Tomii
PA2907 Modified GAP stage as a predictor of acute exacerbation in idiopathic pulmonary fibrosis
Shinichiro Ohshimo (Hiroshima, Japan), Yoshiko Kida, Michihito Kyō, Yasushi Horimasu, Shintaro Miyamoto, Hiroshi Iwamoto, Hironobu Hamada, Noboru Hatōri, Francesco Bonella, Josiane Guzman, Ulrich Costabel, Nobuaki Shime

PA2908 Prevalence of cancer in patients with Idiopathic Pulmonary Fibrosis. A retrospective multicenter study

PA2909 Hospitalisation pattern in Interstitial Lung Diseases: a claims data study
Sabine Witt (Neuherberg, Germany), Julia Waelser, Larissa Schwarzkopf, Michael Kreuter

PA2910 Diaphragm dysfunction in combination with lung function decline is associated with higher mortality in idiopathic pulmonary fibrosis patients
Enikő Bárczi (Budapest, Hungary), Abigel Farkas, Aniko Bohaes, Krisztina Vincze, Noemi Eszes, Gyorgy Losoneyz, Veronika Muller

PA2911 Natural history of idiopathic pulmonary fibrosis (IPF) associated with obstructive sleep apnea (OSA) with or without continuous positive airway pressure (CPAP)
Thomas Gille (Bobigny, France), Morgane Didier, Marouane Boubaya, Zohra Carton, Daniëlle Sadoun-Danino, Dominique Israël-Biet, Vincent Cottin, Frédéric Gagnadoux, Bruno Crestani, Marie-Pia D'Ortho, Pierre-Yves Brillet, Dominique Valeyre, Hilario Nunes, Carole Planès

PA2912 Application of a predictive formula for hypoxic challenge testing in patients with interstitial lung disease
Sunil Patel (London, United Kingdom), Robert A Hastings, Harpreet K Łota, Philip L Molyneaux, Felix Chua, Georgios Magaritopoulos, Vasilis Kouranos, Maria Kokosi, Toby M Maher, Athol U Wells, Peter M George, Elisabetta A Renzoni

PA2913 The role of infection in acute exacerbation of Idiopathic Pulmonary Fibrosis
Dong Weng (Shanghai, China), Huiping Li

PA2914 Does body mass index influence survival of patients with idiopathic pulmonary fibrosis?
Nesrin Mogulkoc (İZMİR, Turkey), Burcu Uysaler, Paul Bishop

PA2915 Comorbid conditions in IPF patients; their frequencies and impacts on survival
Aysu Sinem Koc (İzmir, Turkey), Nesrin Mogulkoc, Paul Bishop

TP-33 Session 294 12:50 - 14:40
Thematic poster: News on the diagnosis of idiopathic interstitial pneumonia

Disease(s): Interstitial lung diseases Airway diseases

Method(s): Endoscopy and interventional pulmonology Surgery Imaging Epidemiology General respiratory patient care Cell and molecular biology

Chairs: Wim A Wuyts (Rotselaar, Belgium), Marcel Veltkamp (De Meern, Netherlands), Stéphane Jouneau (Rennes Cedex, France), Irina Ruxandra Strambu (Bucuresti 5, Romania)

PA2916 The impact of a network based approach on lung function and symptom duration at diagnosis in idiopathic pulmonary fibrosis
Taha Lodhi (Cheddle (Cheshire), United Kingdom), Colm Leonard, Pilar Rivera Ortega, Helen Morris, Tracey Marshall, Katherine Zakis, Theresa Garfoot, Conal Hayton, Melanie Greaves, John Blaikley, Nazia Chaudhuri

PA2917 Nationwide survey of physicians' attitude and approach to the clinical evaluation of interstitial lung disease in Singapore
Felicia Teo (Singapore, Singapore), Gin-Tsen Chai, Su-Ying Low, Chia-Meng Teoh, Tunn-Ren Tay, Maria Kokosi, Chuan-Gee Choo, Sze-Khen Tan, Jessica Tan, Lynette Teo, Yuen-Li Ng, Gregory Kaw, Masashi Takahashi, Wim A Wuyts, Felix Chua, Vincent Cottin, Simon L-F Walsh, Yiong-Huak Chan

PA2918 Absence of early metabolic response assessed by 18F-FDG PET-CT after initiation of antifibrotic drugs in IPF patients.
Benjamin Bondué (Bruxelles, Belgium), Amelie Castiaux, Gaëtan Van Simaëys, Celine Mathey, Felicie Sherer, Dominique Egrie, Simon Lacroix, François Huaux, Gilles Dounont, Serge Goldman

PA2919 Multidisciplinary discussion (MDD) in IPF diagnosis: the experience of an Italian Centre
Elena Torricelli (Firenze (FI), Italy), Elisabetta Rosi, Lorenzo Turi, Cinzia Lo Conte, Caterina Piccioli, Emanuele Vivarelli, Paola Parronchi, Chiara Moroni, Alessandra Bindi, Edoardo Cavigli, Maurizio Bartolucci, Valentina Luzzi, Michela Bezzi, Domenico Viggiano, Luca Voltolini, Elena Bargagli
| PA2936 | Clinical Analysis of Pathologically Diagnosed Cryptogenic Organizing Pneumonia: A 14-year Retrospective Analysis of 176 COP Patients. | Yuan Zhang (Shanghai, China), Nan Li, Huiping Li, Yang Hu, Qiuhong Li, Ying Zhou, Li Shen, Fen Zhang, Yiliang Su, Dong Weng |
| PA2937 | Clinical Characteristics of Familial Idiopathic Pulmonary Fibrosis (f-IPF) at the University of Giessen Marburg Lung Center. | Eikaterina Krauss (Giessen, Germany), Godja Von Gehren, Sabine Heinemann, Werner Seeger, Andreas Guenther |
| PA2938 | Idiopathic Interstitial Pneumonias: Distinct Characteristics | Rana Fessi (Tunis, Tunisia), Besma Ourari, Jihen Ben Amar, Haifa Zaibi, Salwa Azzabi, Mohamed Ali Baccar, Hichem Aouina |
| PA2940 | Correlation Between Pulmonary Function Tests and HRCT Indexes in Idiopathic Pulmonary Fibrosis (IPF) Patients | Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Stefano Palmucci, Roberta Rosso, Matteo Schisano, Mauro Pavone, Ada Vancheri, Giuseppina Sardo, Rosaiba Iudica, Carlo Vancheri |
| PA2941 | Prognosis of Pulmonary Fibrosis with Usual Interstitial Pneumonia Pattern in Myeloperoxidase Anti-Neutrophil Cytoplasmic Autoantibody-Related Neprhritis | Toshikazu Watanabe (Toyko, Japan), Tomoyuki Minezawa, Yasuhiro Goto, Takuya Okamura, Yosuke Sakakibara, Yoshikazu Niwa, Masamichi Hayashi, Midori Hasegawa, Kazuyoshi Imaizumi |
| PA2942 | Comparison of Clinical Characteristics and Prognosis in Patients with Idiopathic Pulmonary Upper Lobe Predominant Pulmonary Fibrosis and Idiopathic Pulmonary Fibrosis | Hirotsugu Ohkubo (Nagoya, Japan), Kensuke Fukumitsu, Satoshi Fukuda, Yoshihiro Kanematsu, Masaya Takemura, Ken Maeno, Yutaka Itô, Akio Nishii |
| PA2943 | Telomere Length in Fibrotic Groups of Interstitial Lung Diseases | Ioannis Tomos (Athens (Alimos), Greece), Anna Karakatsani, Effrosyni Manali, Cristina Kottaridi, Aris Spathis, Ioanna Korbila, Likurgos Kolilekas, Konstantinos Kagouridis, Periklis Foukas, Spyros Papiris |
| PA2944 | Macrolides as a Potential Treatment in Organizing Pneumonia | Andreia Filipa Fonseca Carriço (Guarda, Portugal), António Morais, Natália Melo, Patricia Caetano Mota, Susana Guimarães, Conceição Souto Moura, José Miguel Pereira |
| PA2945 | Lymphocytes in Bronchoalveolar Lavage Fluid Might Be Useful for Predicting the Prognosis, Even in the Stable Phase of Nonspecific Interstitial Pneumonia | Yukiko Takeno (Yufu, Japan), Kenji Uremi, Kosaku Komiya, Yuko Usagawa, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, Kazufumi Hiramatsu, Jun-Ichi Kadota |
| PA2946 | Evaluation of the 4-Meter Gait Speed (4mGS) in Patients with Interstitial Pneumonia: A Prospective Observational Study. | Ryosuke Hirabayashi (Kobe, Japan), Yusuke Takahashi, Kyo Shigeki, Kazuma Nagata, Kazutaka Hosoya, Hayato Kawachi, Ryubu Mori, Munehiro Ito, Mari Kogo, Daichi Fujimoto, Atsushi Nakagawa, Ryo Tachikawa, Kojiro Otsuka, Keisuke Tomii |
| PA2947 | Diagnostic Contribution of EBUS in Interstitial Lung Disease (Excluding Sarcoidosis) | Warda Khamis (Rosny-Sous-Bois, France), Damien Basille, Jean-François Bernardin, Julie Morvan, Michael Soussan, Marianne Auquier, Kim-Anastasia Levand, Pierre-Yves Brutier, Eline Magois, Charles Dayen, Youcef Doudi, Dominique Valeyre, Vincent Joumier, Hilario Nunes, Olivia Freynet |
| PA2948 | Histopathological Patterns of Resected Lung After Lung Transplant in Patients with Interstitial Lung Diseases | Tiago Soares Oliveira Sá (Lisboa, Portugal), Vânia Caldera, Sara Silva, Nidia Caires, Rita Carvalho, Ricardo Coelho, Alexandra Borba, Eugênia Pinto, Paulo Calvinho, Luisa Semedo, João Cardoso, José Fragata |
TP-35  Session 296  12:50 - 14:40

Thematic poster: CTD-ILD and hypersensitivity pneumonitis: mechanistic insights and prognostic markers

**Disease(s):** Interstitial lung diseases

**Method(s):** General respiratory patient care  Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology

**Chairs:** Martina Bonifazi (Ancona (AN), Italy), George Margaritopoulos (London, United Kingdom), Claudia Ravaglia (Forlì, Italy), Veronica Alfieri (Parma (PR), Italy)

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**PA2956**

Systematic review: In vivo imaging in animal models relevant to drug-induced Interstitial lung disease (DIILD)

Irma Mahmutovic Persson (Lund, Sweden), Karin Von Wachenfeldt, Kashmira Pindoria, Juan A. Delgado-San Martin, Simon Campbell, Michael Haase, Mark Wright, John C. Waterton, Lars E. Olsson

**PA2957**

Antioxidant and anti-inflammation effect of GHK-Cu in bleomycin-induced pulmonary fibrosis

Xiaoming Zhou (, China), Gang Hou

**PA2958**

Imaging biomarkers of oedema and fibrosis in a rat model of Drug-Induced-ILD

Irma Mahmutovic Persson (Lund, Sweden), Anders ÖRbom, Per-Ola ÖNnervik, Karin Von Wachenfeldt, Lars E Olsson

**PA2959**

Diagnostic value of serum KL-6 in Interstitial Lung Disease: preliminary results from an European cohort.

Paloma Millan Billi (Barcelona, Spain), Iván Castellvi, Laura Martinez Martinez, Francisco Aparicio, Tomás Franquet, Oriol Sibila Vidal, Diego Castillo Villegas

**PA2960**

Investigating microbial communities in interstitial lung disease by standard culture of bronchoalveolar lavage samples

Madeleine Bangham (London, United Kingdom), Katherine Myall

**PA2961**

Levels of YKL-40 in serum and sputum of patients diagnosed with hypersensitivity pneumonitis: A pilot study.

Mª Jesus Cruz Carmona (Barcelona, Spain), Miquel De Homedeu, Silvia Sanchez-Diez, Iñigo Ojanguren, Chistian Romero-Mesones, Ana Villar, Ferran Morell, Xavier Muñoz

**PA2963**

Screening and characterization of activin A inhibitory peptides by phage display technology

Larissa Prado Maia (Uberlandia, Brazil), Victor Alexandre Félix Bastos, Aline Gomes Souza, Patrícia Tieme Fujimura, Robinson Sabino Silva, Thulio Marquez Cunha, Larissa Prado Maia, Luiz Ricardo Goulart

**PA2964**

Antinuclear antibodies in interstitial lung diseases: Prevalence and predictive factors

Samira Aouadi (Ariana, Tunisia), Najla Ghrairi, Imen Ben Ali, Imen Sahnoun, Sonia Maalej, Sadok Yalaoui, Leila Douik-Elnharbi

**PA2965**

Bronchoalveolar lavage in healthy and diseased individuals

Bjorn Frye (Freiburg, Germany), Jonas Schupp, Thomas Köhler, Gernot Zissel, Werner Vach, Joachim Müller-Quernheim

**PA2966**

Validation of the ILD-GAP model in a Singapore population

Michelle Kam (Singapore, Singapore), Hui Hua Li, Yi Hern Tan, Su Ying Low
PA2967 Role of gastroesophageal reflux in interstitial lung disease associated to connective tissue disease.
Verónica Torres Esteche (Montevideo, Uruguay), Carolina Díaz Cuña, Sandra Consani, Fernanda Alonso, Adriana Bérez

PA2968 Interstitial Pneumonia with Autoimmune Features (IPAF): a single center prospective experience
Gianluca Sambataro (Valverde (CT), Italy), Sebastiano Emanuele Torrisi, Ada Vancheri, Mauro Pavone, Roberta Rosso, Matteo Schisano, Claudia Crimi, Domenico Sambataro, Carlo Vancheri

PA2969 Comparative survival analysis between idiopathic pulmonary fibrosis and chronic hypersensitivity pneumonitis: Retrospective cohort study.
Maria Laura Alberti (Ciudadela, Argentina), Martín Eduardo Fernandez, Leandro Fassola, Fabian Caro, Francisco Paulín

PA2970 Club cells in histological patterns of interstitial lung diseases
Paul Reynaud (Montpellier, France), Isabelle Serre, Isabelle Vacher, Aurélie Fort, Charlotte Vernisse, Micela Romagnoli, Gérard Durand, Yann Cabon, Sébastien Bommart, Anne-Sophie Gamez, Arnaud Bourdin

PA2971 Progression of Rheumatoid-arthritis associated interstitial lung disease by radiological subtype
Sukhmani Sra (London, United Kingdom), Katherine Myall, Boris Lams, Sangita Agarwal, Alex West

PA2972 Non Specific Interstitial Pneumonia and features of connective tissue disease: what are the consequences of a different point of view?
Giulia Deli, Alice Biffi, Anna Stainer, Federica De Giacomoni, Maria Rosa Pozzi, Paola Faverio, Alberto Pesci

PA2974 Impulse oscillometry compared to standard lung function testing in patients with idiopathic pulmonary fibrosis
Emil Lind Flensborg (Aarhus C, Denmark)

PA2975 Change of primary Sjögren’s syndrome-associated interstitial lung disease in computerized tomogram of chest during two years.
Soo-Taek Uh (Seoul, Republic of Korea), Bo Young Lee, So Myo Koo, Yang Ki Kim, Ki Up Kim, Do Jin Kim

TP-36 Session 297 12:50 - 14:40
Thematic poster: Clinical aspects of hypersensitivity pneumonitis (HP) and CTD-ILD: diagnosis, monitoring and treatment

Disease(s) : Interstitial lung diseases, Respiratory infections, Airway diseases, Thoracic oncology, Respiratory infections
Method(s) : Physiology, Surgery, Imaging, Epidemiology, Endoscopy and interventional pulmonology, General respiratory patient care

Chairs : John Mackintosh (Brisbane (QLD), Australia), Maria Kokosi (London, United Kingdom), Yurdagül Uzunhan (Bobigny, France), Dina Visca (Mantova (MN), Italy)

PA2976 LSC - 2018 - In vivo models of Drug Induced ILD; tools to study and improve drug safety
Irma Mahmutovic Persson (Lund, Sweden), Hanna Falk Häkansson (hanna@trulylabs.com / Truly Labs AB, Medico Village,Lund), Per-Ola Ònnervik (per-ola@trulylabs.com / Truly Labs AB, Medico Village,Lund), Janne Persson (janne@trulylabs.com / Truly Labs AB, Medico Village,Lund), Lars E. Olsson (lars.e_olsson@med.lu.se / Department of Translational Medicine, Medical Radiation Physics, Lund University, Malmö Sweden,Malmö), Karin Von Wachenfeldt (karin@trulylabs.com / Truly Labs AB, Medico Village,Lund)

PA2977 Association between 4-metre gait speed and isometric knee extension muscle strength in patients with interstitial lung disease

PA2978 Factors predicting response to azathioprine in chronic hypersensitivity pneumonitis – the importance of BAL lymphocytosis
Sara Raimundo (Vila Real, Portugal), Natália Melo, Patrícia Mota, Susana Guimarães, Conceição Souto Moura, Rui Cunha, José Miguel Pereira, António Morais

PA2979 Parasympathetic Nervous System withdrawal in patients with Interstitial Lung Disease but not in COPD patients
Katya Rigatto (Porto Alegre (RS), Brazil), Ana Amélia Machado Duarte, Cristiano Mostarda, Paulo José Zimmermann Teixeira

PA2980 Acute exacerbation of ILD: an Indian tertiary centre experience
Jai Mullerpattan (Mumbai (Maharashtra), India), Pankti Sheth, Aditi Joshi, Zarir Udwadia

PA2981 What does bronchoalveolar lavage add to cryobiopsy in interstitial lung disease?
Candela Serra (Barcelona, Spain), Paloma Millán Billé, Virginia Pajares Ruiz, Tomás Franquet Casas, Laura Lópe Vilaró, Cristina Burrel Deicke, Ana María Alonso León, Alfonso Torregro Fernandez, Diego Castillo Villegas
PA2982 Usefulness of pulsed cyclophosphamide in Interstitial Lung Disease (ILD)
Chia Wei Kong (SOUTHAMPTON (Hampshire), United Kingdom), Oluwatobi Adeagbo, Robert Hooper, Vanessa Titmuss, Suress Babu

PA2983 Interstitial lung diseases misdiagnosis: a Healthcare Improvement Science (HIS) approach
Radu Adrian Crisan-Dabija (Iasi, Romania), Traian Mihaescu

PA2984 CORRELATION BETWEEN LUNG AND JOINT INVOLVEMENT IN PATIENTS WITH RHEUMATOID ARTHRITIS AND INTERSTITIAL LUNG DISEASE: CROSS SECTIONAL STUDY
Francisco Paulin (Ciudad Autónoma Buenos Aires, Argentina), María Laura Alberti, Fabian Matias Caro, Martin Fernandez, Juan Francisco Mercado, Leandro Fassola

PA2985 Positive correlation between sympathetic modulation and peace in patients with interstitial lung disease
Katya Rigatto (Porto Alegre (RS), Brazil), Ana AméLia Machado Duarte, Cristiano Mostarda, Guilherme Watte, Giancarlo Lucchetti, Paulo José Zimmermann Teixeira

PA2986 Connective tissue disease-related interstitial lung disease and lung cancer
Maria Alvarenga Santos (Lisboa, Portugal), Susana Clemente, Margarida Felizardo, Sofia Furtado

PA2987 Joint Rheumatology and Chest Clinic in a District General Hospital
Lauren Bell (Wigan (Lancashire), United Kingdom), Namrata Kewalramani, Ayhan Umar, Gladston Chelliah, Abdul Ashish

PA2988 An audio-imaging approach to measure the degree of severity of patients suffering from DPLD disease
Ashok Mondal (Kharagpur, India), Poulami Banerjee

PA2989 A case of diffuse alveolar hemorrhage after illegal vaginal injection of hyaluronic acid
Seung Hyeun Lee (Seoul, Republic of Korea), Min Hye Kang, Jung Mi Lee, Seoung Woo Han, Jae Joon Hwang, Yong Suk Jo, Cheon Woong Choi, Myung Jae Park

PA2990 Surgical biopsy results of our patients with diffuse parenchymal lung diseases
Guler Okumus (Istanbul, Turkey), Berker Ozkan, Zuleyha Bingol, Melike Ulker, Berivan Karatekin, Esen Kiyan, Zeki Kilicaslan, Murat Kara, Dilek YiLmazbayhan, Alper Toker

PA2991 Autoimmunity in Interstitial lung diseases: preliminary data from a tertiary center.
Emanuele Vivarelli (Florence, Italy), Gianfranco Vitiello, Francesco Tinghi, Danilo Malandrino, Boaz Palterer, Elena Torricelli, Elena Bargagli, Elisabetta Rosi, Paola Parronchi

PA2992 Revisiting the diagnostic approach of Hypersensitivity Pneumonitis
Ana Luisa Fernandes (Matosinhos, Portugal), Jorge Ferreira, Inês Neves

PA2993 Pirfenidone as a treatment for asbestos-related lung fibrosis? A retrospective case series
Franziska Rytz (Bern, Switzerland), Alexander Poellinger, Sabina Berezowska, Thomas Geiser, Manuela Funke-Chambour

PA2994 Interventions to improve symptom control and quality of life in patients with interstitial lung disease: a systematic review and meta-analysis
Sabrina Bajwah (London, United Kingdom), Jill Colquitt, Emma Loveman, Claudia Bausewein, Howard Almond, Adejoke Oluyase, Athol Wells

PA2995 Clinical features of dermatitis, myositis and severe ILD. Could the AntiSSA / Ro52 antibodies be a diagnostic and prognostic tool for Antisynthetase syndrom?
(,), PARASKEVI KAVOURA, Prokopis Kithreotis, Christos Bagos, Stefanos Kanellas, Dimitrios Veldeuis

TP-37 Session 298 12:50 - 14:40
Thematic poster: Granulomatous disorders: heterogeneous diseases with variable management

Disease(s) : Interstitial Lung Diseases
Method(s) : Respiratory intensive care Epidemiology Imaging Endoscopy and interventional pulmonology General respiratory patient care Cell and molecular biology

Chairs : Robert P. Baughman (Cincinnati, United States of America), Hilario Nunes (Bobigny, France), Diane Bouvry (Bobigny, France), António Morais (Maia, Portugal)

PA2996 Late Breaking Abstract - Characteristics of macrophagal formula and cytokine spectrum of the bronchoalveolar lavage fluid in patients with newly diagnosed and those with recurring sarcoidosis of respiratory apparatus.
Natalia Makaryants (Moscow, Russian Federation), Atajan Ergeshov, Natalia Demyanenko, Larisa Lepekha, Eugene Shmelev
PA2997 Late Breaking Abstract - Reduced activity of energy-transducing NADH-quinone oxidoreductase (complex I) indicates mitochondrial respiratory chain dysfunction in patients with sarcoidosis
Ourania Kotsiou (Larisa, Greece), Zoe Danil, Eugenios Bouzetos, Helen Panagiotidou, Maria Fouka, Foteini Malli, Fotini Bardaka, Katerina Antoniou, Anna-Maria Psara, Zissis Mamuris, Konstantinos Gourgoulianis, Emily Zifa

PA2998 Retrospective analysis of sarcoidosis characteristics and psychological impact between civilian and military populations.
Clara Ranc (Clamart, France), Olivier Bylicki, Hervé Le Floch, Wanda Gaspard, Lucie Zhang, Frederic Grassin, Frederic Riviere

PA2999 Spirometry, cardiopulmonary exercise testing and the six-minute walk test results in sarcoidosis patients
Atefeh Abedini (Tehran, Islamic Republic of Iran), Arda Kiani, Alireza Es Salmanjad, Mohsen Shafie Pour, Fatemeh Razavi, Seyyed Reza Seyyedi, Babak Shariif-Kashani, Kimia Taghavi

PA3000 Gender and smoking – does it matter for lung function in sarcoidosis? An analysis of large cohort (n=1260) Caucasian patients.
Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros, Stefan Wesolowski

PA3001 Health-related quality of life and health status among patients with sarcoidosis, chronic obstructive pulmonary disease and interstitial lung disease
Marina Labor (Zagreb, Croatia), Gordana Pavlisa, Marija Alilovic

PA3002 Exhaled Breath Biomarkers in Sarcoidosis: A Systematic Review
Dayle Terrington (King's Lynn (Norfolk), United Kingdom), Coral Hayton, Adam Peel, Stephen Fowler, Andrew Wilson

PA3003 The comparative characteristics of mediastinal lymphadenopathies in granulomatous pulmonary diseases
Makaryants N., Lepekha L., Sivokozov I., Semenova A. Central TB Research Institute, Moscow, Russia

PA3004 Does the peripheral blood neutrophil lymphocyte ratio increase as the stage of sarcoidosis progresses?
Esin Sonkaya (Istanbul, Turkey), Sumeyye Alparslan Bekir, Fatma Ozbaki, Selma Aydogan Eroglu, Lale Sertcelik, Dildar Duman, Murat Kavas, Meltem Coban Ata, Ipek Erdem, Ipek Ozmen, Sibel Bozga, Fatma Armagan Hazar, Tulin Sevim, Hatice Turker, Zuzhal Karakurt

PA3005 Glucocorticosteroid therapy as predisposing factor for pulmonary sarcoidosis relapse
Ievgeniia Merenkova (Kyiv, Ukraine), Yaroslav Dziublyk, Galyna Gumieniuk, Mykola Gumieniuk

PA3006 Predictive value of Neutrophil-to-lymphocyte ratio(NLR) and Platelet-to-lymphocyte ratio(PLR) in patients with Sarcoidosis
Gülistan Karadeniz (Izmir, Turkey), Enver Yalnaz, Fatma Ucsular, Gülru Polat, Görkem Vayisoglu

PA3007 Monocytes and dendritic cells with hyperinflammatory profile in lungs of sarcoidosis patients
Anna Smad-Sörensen (Stockholm, Sweden), Rico Lepzien, Sang Liu, Susanna Kullberg, Anders Eklund, Johan Grunewald

PA3008 Long-term outcomes of rituximab (RTX) therapy in recurrent Granulomatosis with Polyangiitis (GPA)
Dariusz Gawryluk (Warszawa, Poland), Justyna Fijolek, Elzbieta Wiatr

PA3009 Long-term follow-up of patients with pulmonary sarcoidosis
Yulia Garmash (Moscow, Russian Federation), Sergey Evgenievich Borisov, Diana Ivanova

PA3010 Evaluation of specific immune complexes in patients with pulmonary sarcoidosis.
Ulina Zinchenko (St Petersburg, Russian Federation), Anna Starshinova, Michael Filatov, Vladimir Burdakov, Sergey Landa, Nina Denisova, Piotr Yablonskiy

PA3011 Clinical features and prognosis of Chinese sarcoidosis patients.
Xiaojian Ma (Beijing, China), Huaping Dai, Chen Wang

PA3012 Dynamics of the incidence and primary disability of sarcoidosis in Belarus
Halina L Baradzina (Minsk, Belarus)

PA3013 Sarcoïdosis: imagiological findings and their impact on the disease outcome
Margarida Baptista Duarte Barata (Lisboa, Portugal), Ricardo Estêvão Gomes, Carolina Monge, Miguel Lopes, Jorge Soares, José Duarte

PA3014 Psychological impact of diffuse infiltrative lung disease
lobna Loued (MONASTIR, Tunisia), Sonia Toujani, Abir Hedhli, Sana Cheikhrouhou, Yassine Ouahchi, Meriem Mjid, Samira Meraii
Thematic poster: Pitfalls in the diagnosis and management of rare diffuse parenchymal lung diseases (DPLDs)

**Disease(s):** Interstitial lung diseases, Pulmonary vascular diseases

**Method(s):** Endoscopy and interventional pulmonology, Cell and molecular biology, Imaging, Epidemiology, General respiratory patient care

**Chairs:** Thomas Wessendorf (Essen, Germany), Paola Faverio (Limbiate (MI), Italy), Phil Molyneaux (London, United Kingdom), Eda Boerner (Essen, Germany)

**PA3016**
Autoimmune pulmonary alveolar proteinosis complicated with sarcoidosis: clinical courses and serum levels of anti-GM-CSF autoantibody
Toru Arai (Osaka, Japan), Takahiko Kasai, Akiko Matsumuro, Chikatoshi Sugimoto, Masaki Hirose, Naoko Takeuchi, Kanako Katayama, Masanori Akira, Masanori Kitaichi, Yoshikazu Inoue

**PA3017**
Neutralizing capacity of autoantibody against GM-CSF in patients with autoimmune pulmonary alveolar proteinosis
Etsuro Yamaguchi (Nagakute (Aichi), Japan), Kensi Kosaka, Toshiyuki Yonezawa, Hirofumi Shibata, Ayako Matsubara, Toshio Kato, Hiroyuki Tanaka, Norihito Yokoe, Satoru Ito, Akihito Kubo

**PA3018**
Our cases with pulmonary alveolar proteinosis
Zuleyha Bingol (Istanbul, Turkey), Gulfer Okumus, Gonca Öcal, Esen Kiyon

**PA3019**
Lung cysts in pulmonary alveolar proteinosis.
Maria Kokosi (London, United Kingdom), Peter Saunders, Phil L Molyneaux, Peter M George, George Margaritopoulos, Vasileios Kouranos, Thomas Pickworth, Felix Chua, Toby M Maher, Elisabeth Renzoni, Athol U Wells, Cliff Morgan

**PA3020**
Lung disease caused by non-null ABCA3 mutations: long-term follow-up
Effrosyni D. Manali (Athens, Greece), Nidia Nathan, Caroline Kannengiesser, Periklis Tomos, Aurore Coulomb-L’Herminie, Penelope Korkolopoulou, Periklis G. Foukas, Lykourgos Kolilekas, Konstantinos Kagouridis, Maria Maniati, Stylianos Argentos, Ioanna Korbila, Ioannis P. Tomos, Nikolaos Roussakis, Maria Kallieri, Andrea Schams, Matthias Griese, Theofanis Tsiliogiannis, Anna Karakatsani, Stylianos Loukides, Georgios N. Koutsocharas, Angeliki Androu, Marie Legendre, Serge Amselem, Raphael Borie, Bruno Crestani, Spyros A. Papiris

**PA3021**
Lung involvement associated with anti-NXP2 autoantibodies: a monocentre observational French study
Julien Bermudez (Marseille, France), Benjamin Coulon, Youssef Trigui, Carine Gomez, Jean-Louis Mege, Nathalie Bardin, Martine Reynaud-Gaubert

**PA3022**
Genetic interstitial lung disease: an unusual case
Gros Marion (Fontenay sous bois, France), Alix De Becdelièvre, Daphne Lehalle, Celine Delestrain, Annick Le Floch, Benoit Funalot, Pascale Fanen, Ralph Epaud

**PA3023**
Effect of MUC5B gene polymorphism on survival in a Lebanese population of patients with idiopathic pulmonary fibrosis
Georges Dabar (Beyrouth, Lebanon), Zeina Aoun, Moussa Riachi, Jacques Boutros, Georges Khayat

**PA3024**
Acute eosinophilic pneumonia due to heroin inhalation
Canan Dogan (Izmir, Turkey), Haci Ahmet Bircan

**PA3025**
Relapse predictive factors of chronic eosinophilic pneumonia
Naoko Takeuchi (Sakai, Japan), Toru Arai, Yumiko Sasaki, Yoshinobu Matsuda, Kanako Katayama, Chikatoshi Sugimoto, Kazunobu Tachibana, Seiji Hayashi, Masanori Akira, Takahiko Kasai, Masanori Kitaichi, Yoshikazu Inoue

**PA3026**
Eosinophilic Pneumonia Due to Sulphasalazine Use
Sinem Nedime Sökücü (Istanbul, Turkey), Cengiz Özdemir, Özlem Kahya, Seda Tural ÖzüR

**PA3027**
Pulmonary toxicity to mesalazine
Maria Raquel Araújo Pereira (Braga, Portugal), Maria João Araújo, Filipa Lemos Aguiar, Joana Vale Lages, Ana Luisa Vieira, João Filipe Cruz

**PA3028**
Disease characteristics and outcomes in a Swedish cohort of patients with pulmonary fibrosis (PF)
Magnus Sköld (Stockholm, Sweden), Karen Bartley, Aaron Levine, Lisen Armheim-Dahlstrom, Klaus-Uwe Kirchgaessler, Ragnar Linder, Christer Janson, Giovanni Ferrara

**PA3029**
Transbronchial cryobiopsy in interstitial lung disease
Lars Hagmeyer (Haan, Germany), Dirk Theegarten, Marcel Tremi, Anja Pietzke-Calcagnile, Simon Dominik Herkenrath, Winfried J. Randerath

**PA3030**
Prevalence of progressive fibrosing interstitial lung disease
Amy Olson (Denver, United States of America), Nadine Hartmann, Rozsa Schlenker-Heerseg, Laura Wallace
PA3031  Smoking-related interstitial fibrosis (srif): A new entity?  Elizabeth De Freitas Gonzalez (León, Spain), Jesús Villegas Alcázar, Raúl Almeida Cabrera, Carlos Mier Bango, Laura Sierra Herranz, Javier Juan García, Inmaculada Herráez Ortega, Nieves Alonso Orcajo, Silvia García García, Elena Bollo De Miguel

PA3032  Atypical presentation of a rare lung condition: axillary and paraspinal lymphadenopathy in a patient with clinical and radiological features of lymphangioleiomatosis (LAM)  Aijkumar Kavidasan (London, United Kingdom), Vicky Taylor, Sajid Chaudhry, Rosh Siva, Yogini Raste

PA3033  Case of lymphangioleiomyomatosis complicated by severe alveolar hemorrhagic syndrome  Oxana Fezenko (Moscow, Russian Federation), Svetlana Shwaiko, Zhanna Sheykh, Oxana Paklina, Eugene Kulaeva

PA3034  False-positive PET-CT scan secondary to interstitial pneumonitis mimicking malignancy in fire eater’s lung  Ayse Baccioglu (Ankara, Turkey), Dilek Eraslan, Sule Halici, Fusun Kalpaklioglu

PA3035  The presence of staphylococcal superantigens in nasal swabs and correlation with activity of granulomatosis with polyangiitis (GPA) in own material.  Justyna Fijołek (Warszawa, Poland), Elzbieta Wiatr, Violetta Petroniec, Ewa Augustynowicz-Kopec, Michal Bednarek, Dariusz Gawryluk, Magdalena Maria Martusewicz-Boros, Katarzyna Modrzewska, Elżbieta Radzikowska, Kazimierz Roszkowski-Sliz

TP-39  Session 300  12:50 - 14:40

Thematic poster: Pulmonary hypertension: therapy

PA3036  Pharmacokinetic (PK) interaction of fixed-dose combination (FDC) antiretrovirals (ARV) with riociguat (rio)  Soundos Saleh (Wuppertal, Germany), Edwin Dejesus, Corina Becker, Reiner Frey, Sigrun Unger, Wolfgang Mueck

PA3037  Clinical pharmacokinetic (PK) performance of a ralinepag extended-release (XR) tablet  John Grundy (San Diego, United States of America), Anthony Blackburn, Ed Parsley, Yong Tang, Christopher King, John Adams

PA3038  Inhaled liposomal iloprost shows high drug encapsulation, extended release profile and potentials of improving patient compliance  Pei Kan (Taipei, Taiwan), Ko-Jie Chen, Chin-Feng Hsu, Yi-Fong Lin

PA3039  Acute response of iloprost inhalation using the Breelib nebulizer in pulmonary arterial hypertension: the Breelib acute study  Manuel Jonas Richter (Gießen, Germany), Jens Axmann, Ardeschir Ghofrani, Andreas Rieth, Werner Seeger, Khodr Tello, Henning Gall

PA3041  Urocortin-2 improves right ventricular function and attenuates experimental pulmonary arterial hypertension  Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal), Pedro Mendes-Ferreira, Diana Santos-Ribeiro, Carolina Maia-Rocha, Luís Pimentel, Cláudia Pinto, Eamon P. Mulvaney, Helen M. Reid, B. Therese Kinsella, François Potus, Sandra Breuils-Bonnet, Miriam T. Rademaker, Stéeve Provencher, Sébastien Bonnet, Adelino Leite-Moreira, Carmen Brás-Silva

PA3042  Effects on Right Ventricular size and function by Riociguat in Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension (The RIVER Study)  Satenik Harutyunova (Heidelberg, Germany), Alberto Maria Marra, Nicola Benjamin, Christina Eichstaedt, Benjamin Egenlauf, Christine Fischer, Henning Gall, Hossein Ardeschir Ghofrani, Michael Halank, Marius Hoeper, Tobias Lange, Karen Olsson, Ekkehard Grünig

PA3043  Interim analysis of pulmonary arterial hypertension (PAH)-targeted background therapy in SPHERE (SelexiPag: the usErs dRug Registry)  Valerie McLaughlin (Ann Arbor, MI, United States of America), Kelly Chin, Harrison Faber, Kristin Highland, Anna Hemnes, Murali Chakinala, Carol Zhao, Mike Keating, Nick H. Kim

PA3044  Impact of treatment strategy in survival of patients with idiopathic pulmonary arterial hypertension. Real world evidence from Spanish National Pulmonary Hypertension Registry (REHAP)  Ana Jaureguizar Oríol (Madrid, Spain), Esther Barbero Herranz, Carlos Andrés Quezada Loaiza, Deisy Barrios Barreto, Antonio Román Broto, Javier Segovia Cubero, Teresa Elías Hernández, Sergio Cadenas Menéndez, Pedro Bedate Díaz, Isabel Blanco Vich, Pilar Escribano Subías
PA3045 Switching to macitentan in pulmonary arterial hypertension
Iraklis Tsagkaris (Athens, Greece), Eleni Vrigkou, Dimitris Konstantonis, Frantzeska Frantzeskaki, Athanasios Pappas, Konstantina Ntaï, Eleni Stagaki, Apostolos Armanagidis, Stylianos Orfanos

PA3046 A single-centre, placebo-controlled, double-blinded, randomized, cross-over study of Iloprost in patients with Eisenmenger syndrome
Heba Nashat (London, United Kingdom), Carl Harries, Lisa Parfitt, Emily Shaw, Aleksander Kempny, Laura C Price, Michael A Gatzoulis, Konstantinos Dimopoulos, Stephen J Wort

PA3047 Differences in the activity of the angiotensin converting enzyme 2 axis in patients with idiopathic pulmonary arterial hypertension and congenital heart defect related pulmonary hypertension
Ricardo Teijeiro Paradis (Mexico City, Mexico), Julio Sandoval Zarate, Tomas Pulido Zamudio, Nayeli Zayas Hernadnez, Leonardo Del Valle, Felipe Massò, Héctor Gonzalez, Carlos Sisniega, Gustavo Pastelin

PA3048 Cough and airway irritation with inhaled treprostinil does not involve activation of laryngeal reflexes.

PA3049 Acute hemodynamic effects of riociguat in pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension
Manuel Jonas Richter (Gießen, Germany), Adrian Kambakamba, Khodr Tello, Jens Axmann, Henning Gall, Ardeschir Ghofrani, Stefan Guth, Christoph Wiedenroth

PA3050 Efficacy and safety of tadalafil in portopulmonary hypertension
Mitja Jevnikar (Paris, France), Nathan Ebstein, Xavier Jais, Athenais Boucly, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale

PA3051 The effects of a 10-weeks-pulmonary rehabilitation program on exercise performance, muscle strength and quality of life in patients with pulmonary hypertension.
Thomas Koudstaal (Rotterdam, Netherlands), Monique Wapenaar, Dirk Van Ranst, Ruud Beesems, Leon Van Den Toorn, Karin Boomsar

PA3052 Clinical efficacy of Macitentan in patients with Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension
Heba Nashat (London, United Kingdom), Rosa Da Costa, Joanna Barbosa, Carl Harries, Aleksander Kempny, Laura C Price, Colm Mc Cabe, Michael A Gatzoulis, Konstantinos Dimopoulos, Stephen J Wort

PA3053 Initial dual oral combination therapy in inoperable chronic thromboembolic pulmonary hypertension (CTEPH)

PA3054 Safety of riociguat for chronic thromboembolic pulmonary hypertension (CTEPH): Interim data from a prospective non-interventional study in Japan
Nobuhiro Tanabe (Chiba City, Japan), Takeshi Ogo, Masaru Hatano, Yoichi Tazaki, Toshiyuki Sunaya, Akira Saikawa, Toshiaki Sakaguchi

PA3055 Effects of sildenafil as a bridge therapy for pulmonary endarterectomy in chronic thromboembolic pulmonary hypertension
Shigefumi Fukui (Osaka, Japan), Massimiliano Palazzini, Enrico Gotti, Davide Pacini, Sofia Suarez, Takeshi Ogo, Satoshi Yasuda, Alessandra Manes, Norifumi Nakanishi, Nazzareno Galíe

TP-40 Session 301 12:50 - 14:40
Thematic poster: Experimental research in pulmonary hypertension
Disease(s): Pulmonary vascular diseases | Airway diseases
Method(s): Cell and molecular biology | Physiology
Chairs: David Montani (Le Kremlin-Bicêtre, France), Frances S. De Man (Amsterdam, Netherlands), Soni Savai Pullamsetti (Bad Nauheim, Germany), Christophe Guignabert (Paris, France)

Extracellular vesicles derived from mesenchymal stem cells prevent pulmonary vascular dysfunction induced by lipopolysaccharide (LPS).
Sergio Esquivel-Ruiz (Madrid, Spain), Bianca Barreira, María Alvárez-Fuente, Anthony Gurjian, Pedro Hernández-Hernández, Africa González-Murillo, Manuel Ramírez-Orellana, María Jesús Del Cerro, Ángel Cogolludo, Francisco Pérez-Vizcaino, Laura Moreno
PA3057 Common genetic basis for pulmonary arterial hypertension and high altitude pulmonary edema
Christina Eichstaedt (Heidelberg, Germany), Heimo Mairbäurl, Jie Song, Nicola Benjamin, Christine Fischer, Katrin Hinderhofer, Ekkehard Grünig

PA3058 BMPR2 mRNA functioning as competing endogenous RNA in pulmonary arterial hypertension associated with systemic-to-pulmonary shunts
Kai Ma (Beijing, China), Lei Qi, Hao Zhang, Sen Zhang, Fenpu He, Guanxi Wang, Zicong Feng, Shoujun Li

PA3059 Impact of treprostinil on dynamin-related protein 1 (DRP1) and mitochondrial fragmentation in pulmonary arterial hypertension (PAH).
Jerjes Abu-Hanna (London, United Kingdom), Jan-Willem Taanman, David Abraham, Lucie Clapp

PA3060 Gene-Gene Interaction between EPAS1 and EGLN1 in Patients with High-Altitude Pulmonary Edema
Toshimichi Horiuchi (Matsumoto, Japan), Yunden Droma, Fumiya Kinota, Nobumitsu Kobayashi, Masao Ota, Masayuki Hanaoka

PA3061 Kv1.5 channels and endothelium-dependent relaxation are downregulated by miR-1 in rat pulmonary arteries.
Gema Mondejar-Parreño (Madrid, Spain), María Callejo, Bianca Barreira, Daniel Morales-Cano, Laura Moreno, Sergio Esquivel-Ruiz, Angel Cogolludo, Franciscó Pérez-Vizcaino

PA3062 Stabilised ferroportin activity affects pulmonary vascular cells responses: implications for pulmonary hypertension
Sofia Pedersen (LONDON, United Kingdom), Quezia Toe, S John Wort, Gregory J Quinlan*, Latha Ramakrishnan*

PA3063 Activation of the Beta-3 adrenoceptor in experimental pulmonary hypertension
Pedro Mendes Ferreira (Guimarães, Portugal), Rui Adao, Rozenn Quarck, Catharina Belge, Marion Delcroix, Carmen Bras-Silva

PA3064 Pulmonary Hypertension in Female Rats: Estrogens and Age Influence
Ana Obeso (Valladolid, Spain), Elena Olea, Asuncion Rocher, Ana Gordillo, Angela Gomez-Niño, Jesus Prieto-Lloret

PA3065 Leukotriene-mediated sex dimorphism in pulmonary arterial hypertensionmonocrotaline-induced rat.
Angela Liparulo (Naples, Italy), Giuseppe Spaziano, Teresa Palmira Russo, Antonietta Rossi, Fiorentina Roviezzro, Rosanna Filosa, Manuela Sgambato, Gioia Tagliatone, Renata Esposito, Bruno D’Agostino

PA3066 Targeting CCR2 and CCR5 to inhibit macrophage/pulmonary artery smooth muscle cells cross-talk in pulmonary hypertension
Sharīq Abid (Creteil, France), Aurelien Parpaleix, Elisabeth Marcos, Valérie Amself, Amal Housseíni, Marielle Breau, Daigo Sawaki, Emilie Bizard, Marion Delcroix, Rozenn Quarck, Larissa Lipskaia, Serge Adnot

PA3067 Effect of BMPRII on endothelial function in human lung microvascular endothelial cells
Birger Tielemans (Leuven, Belgium), Rik Gijsbers, Annelies Michiels, Allard Wagenaar, Ricard Farre Marti, Catharina Bege, Marion Delcroix, Rozenn Quarck

PA3069 Reduce expression of endothelial nitric oxide synthase lead to more severe pulmonary complex vascular lesions associated with HIV
Jose Luis Sandoval Gutierrez (México D.F, Mexico), Rosa Maria Rivera Morales, Juan Rodriguez Silverio

PA3070 Cold exposure lowered miR-21-5p expression in monocrotaline induced pulmonary artery hypertension.
Fausto Sanchez Munoz (mexico, Mexico), José Sánchez, Roxana Carbó, Adrián Hernández, Rafael Bojalil, Julio Sandoval, Fausto Sánchez

PA3071 Maladaptive Pulmonary vascular responses to chronic intermittent and sustained hypoxia in a rat hypertension model
Asuncion Rocher Martin (Valladolid, Spain), Jesus Prieto-Lloret, Inmaculada Docio, Elena Olea, Maria Llanos Bravo, Ana Obeso, Angela Gomez-Niño

PA3072 The effect of Monoamine oxidase A inhibition on experimentally induced pulmonary arterial hypertension
Xiao-Qing Sun (Amsterdam, Netherlands), Eva Peters, Ingrid Schalij, Stine Andersen, Denielli Da Silva Goncalves Bos, Anton Vonk-Noordegraaf, Frances S De Man, Willen Van Der Laarse, Harm Jan Bogaard

PA3073 Echocardiographic and histomorphometric assessment of the effects of pharmacological antagonism of endothelin receptors in the Sugen 5416/hypoxia rat model of pulmonary hypertension
Silvia Cantoni (Parma, Italy), Stefano Cavalli, Fiorella Pastore, Romina Nassini, Francesco De Logu, Gino Villetti, Fabrizio Facchinetti

PA3074 Effects of acute increases in right ventricular preload and afterload on pulmonary artery pulse pressure in a chronic thromboembolic hypertension model
David Boulate (Le Plessis-Robinson, France), Denis Chemla, Fanny Loisel, Benoit Decante, Philippe Herve, Francois Haddad, Elie Fadel, Olaf Mercier
Lower than expected pulsatile pulmonary arterial load in a thromboembolic pulmonary hypertension model
David Boulate (Le Plessis-Robinson, France), Denis Chemla, Fanny Loisel, Mathieu Coblenze, Bastien Provost, Benoît Decante, Philippe Herve, Elie Fadel, Olaf Mercier

TP-41  Session 302  12:50 - 14:40
Thematic poster: Clinical aspects of pulmonary hypertension

Disease(s) : Pulmonary vascular diseases, Respiratory critical care
Method(s) : Respiratory intensive care, Imaging, Epidemiology, Physiology, Cell and molecular biology, Public health, General respiratory patient care, Surgery
Chairs : Laurent Savale (Le Kremlin-Bicêtre, France), Frédéric Lador (Genève 14, Switzerland), Irene Lang (Wien, Austria), Sean Gaine (Dublin, Ireland)

Identification of chronic thromboembolic pulmonary hypertension (CTEPH) through French national hospital database (PMSI)
Vincent Cottin (Lyon, France), Simon Teal, Daphné Avot, Laurie Lévy-Bachelot, Carl Baxter, Aurore Palmero, Laura Catella, Stève Bénard, Olivier Sitbon

Clinical characteristics and prognosis in patients with chronic thromboembolic pulmonary hypertension and a psychiatric disorder
Hiroshi Tajima (Chiba, Japan), Hajime Kasai, Hideki Miwa, Akira Naitou, Toshihiko Sugiuura, Seiichiro Sakao, Nobuhiro Tanabe, Koichiro Tatsumi

Prevalence of chronic thromboembolic pulmonary hypertension (CTEPH) in patients after pulmonary embolism
Valentina Dimitrova (Varna, Bulgaria), Diana Petkova, Velin Stratev, Tanya Dobreva

Good outcomes following elective lower limb orthopaedic surgery in patients with pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension
Mikaela Ming (Sheffield, United Kingdom), Amanda Nair, Sarah Saunders, Robin Condliffe, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Robert Lewis, Iain Armstrong, Paul Sephton, Neil Hamilton, Robert Kerry, David Kiely

Anomalous pulmonary venous drainage (APVD) in patients with suspected pulmonary hypertension (PH)
Robert Lewis (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Christopher Johns, Judith Hurdman, Neil Hamilton, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Jim Wild, Andrew Swift, David Kiely, Robin Condliffe

Survival in postpulmonary hypertension (PoPH) in the era of modern PAH-targeted therapy
Laurent Savale (Le Kremlin-Bicêtre, France), Nathan Ebstein, Mitja Jevnikar, Xavier Jaïs, Florence Parent, Athenaïs Boucry, Gerald Simonneau, David Montani, Marc Humbert, Olivier Sitbon

Possible pathophysiological role of vitamin D deficit in pulmonary arterial hypertension
Maria Callejo (Madrid, Spain), Daniel Morales-Cano, Gema Mondejar-Parreño, Bianca Barreira, Sergio Esquivel-Ruiz, Laura Moreno, Pilar Escribano, Isabel Blanco, Joan Albert Barberà, Ángel Cogolludo, Francisco Perez-Vizcaino

Real world data from hospital episode statistics can be used to determine patients at risk of idiopathic pulmonary arterial hypertension
David Kiely (Sheffield (South Yorkshire), United Kingdom), Allan Lawrie, Orla Doyle, Valentina Salvatelli, Flora Daniels, Edmund Drage, Harvey Jenner, John Rigg, Claude Schmitt, Yevgenyi Samyshkin, Rito Bergemann

Assessing the financial impact of pulmonary hypertension: a survey by the UK Pulmonary Hypertension Association (PHA-UK)
Iain Armstrong (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Shaun Clayton, Janelle Yorke, Carl Harries, David Kiely

The phenotype of the Adult Mexican Patient with Pulmonary Arterial Hypertension: Baseline characteristics of the REMEHIP Registry. The REMEHIP Investigators.
Julio Sandoval Zárate (México D.F, Mexico), Tomás Pulido Zamudio, Carlos Jerjes Sanchez Z Diaz, Alicia Ramírez, Miguel Beltran, Mario Seoane, Juan Francisco Moreno, Pedro Gutiérrez Fajardo, Jose Javier Elizalde, Guillermo Cueto, Humberto Garcia, Rodolfo Parra

Ventricular mass index predicts mortality in incident patients with PAH
Catherine Simpson (Baltimore, United States of America), Rachel Damico, Stephen C. Mathai, Todd Kolb, Rubina Khair, Stefan Zimmerman, Paul M. Hassoun
Cancer incidence in incident patients with precapillary pulmonary hypertension.
Elodie Bravos (Vienne, France), Vincent Cottin, Claire Dauphin, Hélène Bouvaist, Julie Traclet, Romain Trésorier, Souad Bezzeghoud, Kais Ahmad, Sandrine Accassat, Elodie De Magalhaes, Jean-François Mornex, Christophe Pison, Laurent Bertoletti

Determinants and prognostic value of kidney disease in pulmonary arterial hypertension
Vincent Cottin (Lyon, France), Laurent Bitker, Florence Sens, Cecile Payet, SéGolène Turquier, Julie Traclet, Kais Ahmad, Sabrina Zeghmra, Jean-François Mornex, Antoine Duclos, Laurent Juillard

Critical care admissions in patients with pulmonary arterial hypertension.
Laura Price (London, United Kingdom), Colm Mccabe, Sophie Herbert, Tc Aw, David Alexander, Susanna Price, Stephan Ledot, Aleksander Kempny, Carl Harries, John Wort, Konstantinos Dimopoulos

EARLIER: End tidal carbon dioxide for earlier detection of pulmonary hypertension
Henning Gall (Gießen, Germany), Sophie Herbst, Manuel Richter, Natasa Sommer, Khodr Tello, Werner Seeger, Ardeschir Ghofrani

Capillaroscopic findings in patients with pulmonary arterial hypertension
Liliana Bonola (Ciudad de México, Mexico), Julio Sandoval, Tomás Pulido, Nayeli Zayas

Cirrhose cardiaque in pulmonary hypertension- a case series.
Marianne Lerche (Leipzig, Germany), Armin Frille, Hubert Wirtz, Johannes Wiegand, Volker Keim, Thomas Karlas, Sophie Tegelkamp, Hans- Jürgen Seyfarth

Epidemiological and Clinical aspects of pulmonary arterial hypertension (PAH)
Rachida Yahiaoui (Alger, Algeria), Zakia Bennoui, Djenette Hakem, Rabah Amrane, Rafika Boughrarou

Screening for pulmonary arteriovenous malformations in hereditary haemorrhagic telangiectasia in the French national reference centre
Victor Margelidon-Cozzolino (Lyon, France), ChahéRa Khouatra, Kais Ahmad, Julie Traclet, Nader Chebib, Sophie Dupuis-Giord, Vincent Cottin

10 years’ experience of referral of ILD patients with Suspected PH to a National PH Service: Demographics and Outcomes
S. John Wort (London, United Kingdom), Simon Bax, Joseph Jacobs, Vasilis Kouranos, Charlene Bredy, Konstantinos Dimopoulos, Aleksander Kempny, Simon Walsh, Arjun Nair, Maria Kokosi, Gregory Kier, Elisabetta Renzoni, Felix Chua, Peter George, Colm Mccabe, Michael Wilde, Amie Devaraj , Athol Wells, Laura Price*

Multi-institutional prospective registry in pulmonary hypertension associated with respiratory disease in Japan.
Nobuhiro Tanabe (Chiba City, Japan), Hiraku Kumamaru, Yuichi Tamura, Hiroyuki Taniguchi, Noriaki Emoto, Yoshihito Yamada, Osamau Nishiyama, Ichizo Tsujino, Hiroshi Kuraishi, Hiroshi Kimura, Yoshikazu Inoue, Yoshiteru Morio, Yasuto Nakatsumi, Toru Satoh, Masayuki Hanaoka, Tomohiro HANDA, Mitsuhiro Sumitani, Kei Kusaka, Yoshihiro Nishimura, Fumio Sakamaki, Masaru Hatano, Hiromi Matsubara, Kazuhiko Nakayama, Tomoki Kimura, Seichiro Sakao, Masaharu Nishimura, Hiroaki Miyata, Koichiro Tawada

Pulmonary hypertension in patients with idiopathic pulmonary fibrosis and combined pulmonary fibrosis and emphysema: hemodynamic severity
Maria Laura Graziani (Roma (RM), Italy), Martina Reynolds-Gaubert, Emmanuel Gomez, Julie Traclet, Kais Ahmad, Emmanuel Bergot, Laurent Bertoletti, Boubou Camara, Dominique Israël-Biet, Xavier Jaïs, Lize Kiakouama-Maleka, Sylvain Marchand-Adam, David Montani, Anna Nieves, Hilarion Nunes, Fabrice Piegay, Lidwine Wemeau-Stervinou, Virginie Zarza, Stéphane Polazzi, Anne-Marie Schott-Pethelaz, Sabrina Zeghmra, Mouhamad Nasser, Vincent Cottin

Pulmonary hypertension in hypersensitivity pneumonitis.
Adrienn Tornyos (Graz, Austria), Martin Trinker, Vasilie Foris, Susanne Pfeiffer, Balazs Odler, Philipp Douschan, Alexander Avian, Andreas Leitner, Andrea Olschewski, Gabor Kovacs, Horst Olschewski
Sildenafil in Patients with Severe Group 3 Pulmonary Hypertension
Laura Price (London, United Kingdom), Aleksander Kempany, Colin Mccabe, Kostantinos Dimopoulos, Jalpa Kotecha, Carl Harries, Joana Barbosa, Nick Hopkinson, Anita Simonds, Athol Wells, John Wort

Borderline pulmonary hypertension is associated with exercise intolerance and increased risk for acute exacerbation in patients with interstitial lung disease
Mitsunobu Ito (Naka-gun (Ibaraki), Japan), Kenji Nemoto, Shuji Oh-Ishi, Takeshi Yamamoto, Yuya Koshiishi, Akira Ito, Tetsuro Shiraishi, Joichi Yamazaki, Shinji Inamura, Tatsuya Akiyama, Takefumi Saito, Shimao Fukai

Diagnostic accuracy of echocardiography in pulmonary hypertension due to interstitial lung disease
Henning Gall (Gießen, Germany), Charlotte Heinze, Manuel Richter, Natascha Sommer, Khodr Tello, Hossein Ardeschir Ghofrani, Werner Seeger

Role of quantitative computed tomography in patients with severe precapillary pulmonary hypertension
Florence Coste (Bordeaux, France), Ilyes Benlala, Gael Dournes, Claire Dromer, Élodie Blanchard, Francois Laurent, Patrick Berger

CT Based Arterial and Venous Morphologic Changes In Pulmonary Hypertension Associated with COPD
Franck Rahaghi (Weston, United States of America), Farbod Rahaghi, Vivian Paz, Pietro Nardelli, James Ross, Raúl San José Estépar, George Washko

Potential role of inflammatory factors in Sleep Apnea Hypopnea Syndrome associated pulmonary hypertension
Jin Zhang (Yinchuan (Ningxia), China), Shaojin Wang, Peng Zhang

Association of pulmonary hypertension with sleep apnea in highlanders
Talantbek Sooronbaev (Bishkek, Kyrgyzstan), Michael Furian, Maamed Mademilov, Bernet Estebesova, Batyr Osmo, Nuriddin Marajapov, Ulan Sheraliev, Philipp M Scheiwiller, Patrick R Bader, Thierry Rochat, Silvia Ulrich, Konrad E Bloch

Pulmonary arterial pressure predicts nocturnal hypoxemia in CTEPH patients.
Catharina Belge (Leuven, Belgium), Dries Testelmans, Bertien Buyse, Marion Delcroix

HIGH RATE OF SLEEP DISTURBANCE ABNORMALITIES IN A STABLE PULMONARY HYPERTENSION COHORT
Vanina Giovini (Ciudad Autónoma Buenos Aires, Argentina), Mariano Mazzei, Nicolas Atamañuk, Diego Litéu, Nogueira Facundo

Effect of e-cigarette vapour extraction on vasoactive gene expression in human pulmonary artery smooth muscle and endothelial cells.
Abdullah Alqarni (Nottingham (Nottinghamshire), United Kingdom), Oliver Brand, Alice Pasini, Mohammed Alshehri, Linhua Pang

Right ventricular tissue doppler echocardiography in pulmonary hypertension
Susanne Pfeiffer (Graz, Austria), Alexander Avian, Philipp Douschan, Vasile Foris, Andrea Olschewski, Horst Olschewski, Gabor Kovacs

NT-proBNP variation in stable pulmonary arterial hypertension patients.
Ines Furtado (Vila do Conde, Portugal), Célia Cruz, Ana Vigário, Sandra Correia, Luísa Carvalho, Fabienne Gonçalves, Mário Santos, Abílio Reis

Evaluation of the Validity and Reliability of the Turkish Translation of the Emphasis-10 Questionnaire In Patients with Pulmonary Hypertension
Pinar Odevoglu (Istanbul, Turkey), Rengin Demir, Gülfer Okumuş, Serdar Küçükoğlu, Göksen Kuran Aslan

The Post-Embolic Syndrome: Right Ventricular Post-injury Dysfunction?
Cristina Sanchez Vieco (Vitoria-Gasteiz, Spain), Jose Luis Lobo-Beristain, Angel Alonso-Gómez, Agustina Rivas-Guerrero, Julia Amarantha García-Fuertes, Raquel Cobos-Campos, Remedios Otero-Candelera, Grupo Osiris

Effects of suramin on cardiopulmonary capacity and pulmonary venous contraction in pulmonary arterial hypertension
Marisol Barros (Santiago, Chile), Marcelo Fonseca, Mauricio Henriquez

Thematic poster: Diagnosis, prognostication and treatment of pulmonary embolism

Disease(s) : Pulmonary vascular diseases, Respiratory critical care, Airway diseases
Method(s) : Imaging, Epidemiology, Respiratory intensive care, General respiratory patient care
Chairs : Olivier Sanchez (Paris, France), David Jiménez Castro (Madrid, Spain), Francis Coutouraud (Brest, France), Anton Vonk Noordegraaf (Amsterdam, Netherlands)
PA3116 Multiorgan ultrasonography for the diagnosis of pulmonary embolism
Rosen Petkov (Sofia, Bulgaria), Nedelina Kurtelova, Yordanka Yamakova, Evgeni Mekov

PA3117 Non-Contrast Chest CT Scans In Detection Of Pulmonary Thromboembolism
Lamia Shaaban (Assiut, Egypt), Moustafa H M Othman, Hazem Abozaid, Nefisa D Mohamed

PA3118 Can age-adjusted D-dimer be used to decrease the CTPA burden in a general hospital?
Julian Cassar (Balzan, Malta), Kyra Bartolo, Christine Cannataci, Christopher Zammit, Joelle Azzopardi, Paula Grech, Gabriel Borg, Brendan Caruana Montaldo

PA3119 High « red cell distribution width » levels can predict pulmonary embolism risk in multiple trauma patients: a case control study.
Syrine Chouchane (Sousse, Tunisia), Mohamed Kahloul, Chawki Jebali, Marwa Chaabani, Sana Aissa, Mohamed Aymen Jaouadi, Habiba Ben Hamada, Mohamed Said Nakhli, Walid Naija

PA3120 The value of on-admission serum Sodium level on 30-day outcome in acute pulmonary embolism
elnaz firoozehi (tehran, Islamic Republic of Iran), Neda Faraji, Hamidreza Abtahi, Soheil Peiman

PA3121 Pulmonary Embolism: central vs. peripheral - different presentations and different outcomes?
Filipa De Castro Lima (Póvoa de Varzim, Portugal), Nuno China Pereira, Carla Ribeiro, Eloísa Silva, Manuela Vanzeller, Teresa Shiang

PA3122 Rivaroxaban versus low-molecular-weight heparin for venous thromboembolism in gastrointestinal and pancreatobiliary cancer
Jang ho Lee (Seoul, Republic of Korea), Jae Seung Lee

PA3123 Use and results of fibrinolysis in pulmonary embolism. Experience in a tertiary hospital.
Ana Torres Vilar (Valencia, Spain), Alberto Garcia Ortega, Marcos Prado Barragan, Raquel Lopez Reyes

PA3124 Factors affecting recurrence and bleeding complications in patients with venous thromboembolism
Yasemin Ates (Istanbul, Turkey), Züleyha Bingöl, Gülfer Okumuş, Orhan Arseven

PA3125 Recurrence and bleeding in the extended treatment of patients with pulmonary embolism (PE) and cancer
Letizia Marconi (Pisa (PI), Italy), Valentina Foci, Marco Lazzaretto, Antonio Palla

PA3126 Massive and sub-massive pulmonary embolism (PE) long-term follow up data: Is there a need for dedicated PE clinics?
Abdullah Abbsi (Stoke on trent, United Kingdom), Muhammad Ganaie, Sannan Irshad, Syeda Adil, Mohammed Haris, Muhammad Iqbal

PA3127 Epidemiology of Pediatric Pulmonary Embolism in Slovenia, 2006-2016.
Paola Pascolo (Trieste (TS), Italy), Nika Morgan, Marina Praprotnik, Barbara Faganel Kotnik, Matija Kozak, Bojana Pinter, Uros Krivec

PA3128 Clinical characteristics and outcome of patients with Behçet's Disease and thrombosis
Serhat Erol (Ankara, Turkey), Hasan Hasanazde, Fatma Ciftci, Ahmet Onur Dastan, Aydin Ciledag, Banu Eris Gulbay, Akin Kaya, Gökhan Celik, Turan Acıcan

PA3129 Hughes-Stovin syndrome, a rare cause of thrombosis and pulmonary artery aneurysm: a case report
Selma Yalçin (Ankara, Turkey), Emine Bahar Kurt, Cem Şışler, Kerem Ensarioğlu

PA3130 Pulmonary onset and complications of intravenous drug users infective endocarditis
Alex A. Demin (Novosibirsk, Russian Federation), Vera Drobysheva

TP-44 Session 305 12:50 - 14:40
Thematic poster: Medical education via the web and the internet

Disease(s) : Respiratory infections  Respiratory critical care  Airway diseases  Thoracic oncology  Interstitial lung diseases
Method(s) : Endoscopy and interventional pulmonology  Respiratory intensive care  Epidemiology  Public health  General respiratory patient care

Chair(s) : Robert Primhak (Sheffield (South Yorkshire), United Kingdom), Stylianos Loukides (Athens, Greece), Frank W.J.M. Smeenk (Eindhoven, Netherlands), Chad Jackson (, United States of America)

PA3132 Conceptualization of the clinical diagnosis components for digital coding in structured electronic data-bases of phthisiopulmonology.
Tatyana Lugovkina (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Tulkova, Serge Skornyakov, Igor Medvenskiy, Evgeniy Egorov
PA3133 Recognising Excellence in Respiratory Medicine
Rachel Jones (Bristol (Avon), United Kingdom), Shelley Barnes, Kathryn Bateman

PA3134 Development of an online resource to support paediatric asthma management: www.beatasthma.co.uk
Jennifer Townsend (Newcastle Upon Tyne (Tyne and Wear), United Kingdom), Louise Hayes, Sally Hails, Austin Toombs, Madeline Balaam

PA3135 How to teach anesthesiologists and intensivists to perform bronchoscopy? Three years experience with practically directed workshops in the Czech Republic
Hana Bartáková (Praha, Czech Republic), Michal Otahal, Václav Baca, Jiri Votruba

PA3136 Assessment of physicians and undergraduates in COPD: ASCO-2 study
Kateryna Gashynova (Dnipro, Ukraine), Roman Bontsevich, Olga Kompaniets, Galina Batisheva, Olga Cherenkova, Tatiana Shagieva, Elena Luchimina, Alexandr Leonov, Alina Chernykh, Alina Leonova, Kristina Shchurovskaya, Alina Mikhno, Tatjana Pokrovskai

PA3137 The effect of an asthma awareness campaign on social media users.
Helmy Haja Mydin (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Sundari Ampikaipakan, Shahid Shaya, M.R. Partridge

PA3138 Can bronchoscopy be made safer through team-based Simulation?
James Tonkin (London, United Kingdom), Yee-Ean Ong

PA3139 Asthma care pathway
Christine Rolland (Boulogne-Billancourt, France), Marc Sapène

PA3140 The impact of a dedicated multidisciplinary social media team at a national critical care conference
Rachael Moses (North Shields (Tyne and Wear), United Kingdom), Aoife Abbey, Nitin Arora, Rob Cronin, Steve Mathieu, Ganesh Suntharalingam, Jamie Strachan, Tanj Sanghera, Jonathan Downham

PA3141 Comparison of COPD Management Practices with Expert Recommendations among Pulmonologists and Primary Care Providers
Edward Jackson (New York, United States of America), Keith Johnson, Shari Dermer, Fernando Martinez

PA3142 Assessment of Severe Asthma Management Practices among Pulmonologists and Allergists
Edward Jackson (New York, United States of America), Keith Johnson, Shari Dermer, Reynold Panettieri

PA3143 Engaging people at highest risk of an asthma attack
Samantha Walker (London, United Kingdom), Catherine Broadbent, Simon Christmas

PA3144 Patient-reported side effects of oral corticosteroids
Samantha Walker (London, United Kingdom), Catherine Broadbent, Paul Pfeffer, Liz Steed

PA3145 Simulation skill labs to support informal caregivers who care for patients requiring mechanical ventilation at home
Milko Zanini, Annamaria Bagnasco, Giuseppe Aleo, Gianluca Catania, Loredana Sasso

PA3146 Do medical and nursing students know correct use of Inhalers? Results of UPSIDE India study
Madhuragauri Shevade (Pune (Maharashtra), India), Ashwini Dhumal, Monica Barne, Sapna Madas, Sushma Jadhav, Jyoti Londhe, Baishakh Ghosh, Noopur Hedawoo, Dilip Kadam, Sushant Meshram, Ajay Chandanwale, Sandhya Khadse, Sundeep Salvi

PA3147 Diffuse panbronchiolitis is not restricted to east asia - A mini literature review
Ram Mishra (Thane (Maharashtra), India)

PA3148 Systems approach to improving safety with intercostal chest drains (ICD)
Burhan Khan (Dartford (Kent), United Kingdom)

PA3149 Training programme on Pediatric Asthma: What is the impact of a 1 day training programme in improving level of knowledge about Asthma amongst practicing pediatricians in India?
Madhuragauri Shevade (Pune (Maharashtra), India), Monica Barne, Noopur Hedawoo, Nisha Kale, Sapna Madas, Sundeep Salvi

TP-45 Session 306 12:50 - 14:40
Thematic poster: COPD, asthma and tuberculosis: benefits related to therapy costs
Disease(s): Sleep and breathing disorders Airway diseases Respiratory infections Thoracic oncology Respiratory infections
Method(s): Surgery Endoscopy and interventional pulmonology Epidemiology Public health General respiratory patient care
Chairs: Robab Breyer-Kohansal (Wien, Austria), Manuel Kastner (Linz, Austria), Torben Sigsgaard (Århus, Denmark), Maud Koopman (Maastricht, Netherlands)
PA3150 Late Breaking Abstract - Assessing epidemiology and costs of asthma and COPD in Switzerland with health insurance data
Marion Schmidt (Winterthur, Switzerland), Beatrice Brunner, Simon Wieser, Roland Rapold, Eva Blozik

PA3151 Cost analysis of FeNO for asthma diagnosis in primary care in Germany.
Christian Ernst (Stuttgart, Germany), Anna Dick, Sandra Wegner, Tanja Wollensak

PA3152 Identifying predictors of COPD utilization and costs in COPD patients over 18 months: first longitudinal results of the COSYCONET cohort
Johanna Lutter (Nuremberg, Germany), Danalyn Byng, Rolf Holle, Rudolf A. JöRres, Annika Karch, Stefan Karrasch, Holger Schulz, Claus F. Vogelmeier, Margarethe E. Wacker

PA3153 Cost-effectiveness of the fixed-dose combination tiotropium + olodaterol based on the DYNAGITO trial results
Martine Hoogendoorn (Rotterdam, Netherlands), Isaac Corro Ramos, Michael Baldwin, Laura Luciani, Cecile Fabron, Bruno Detournay, Maureen Rutten-Van Mölken

PA3154 Cost-effectiveness of a single inhaler triple therapy versus ICS/LABA in COPD
Alan A. Martin (Uxbridge (Middlesex), United Kingdom), Dhvani Shah, Emma C Goodall, Melanie Schroeder, Nancy Risebrown, Kerigo Ndirangu, Afisi S Ismaila

PA3155 Impact of once-daily single inhaler triple therapy on healthcare resource utilization and associated costs in COPD patients in Spain
Laura Atienza (Tres Cantos, Madrid, Spain). Nicole Benjamin, Melanie Schroeder, Laura Amanda Vallejo-Aparicio, Chandroday Biswas, Dhvani Shah, Afisi S. Ismaila

PA3156 Patient preference for COPD treatment inhalers: A Discrete Choice Experiment (DCE) in France – Results of a Pilot Study
Laura Luciani (Paris, France), Christos Chouaid, Nicola Germain, Gérard De Pouvourville, Samuel Aballéa, Daria Korchagina, Mike Baldwin, Katell Le Lay, Philippe Devillier

PA3157 Costs of COPD exacerbations in a general population
Marta Erdal (Bergen, Norway), Ane Johannessen, Tomas Mikal Eagan, Per Bakke, Amund Gulsvik, Jan Erik Askildsen, Rune Gronseth

PA3158 Reducing plastic waste, carbon footprint and cost: inhaler recycling at Musgrove Park Hospital
Alexandra Dipper (Bristol (Avon), United Kingdom), Louise Anning, Antony Zorzi, Lauren Thrush, Theresa Schulz, Daniel Higbee, Prateek Nalwaya, Alexander Maidwell-Smith, Justin Pepperell

PA3159 Direct/Indirect costs and QoL in Greek patients with COPD and Bronchial Asthma
Konstantinos Zarogoulidis (Thessaloniki, Greece), Vasiliki Zarogoulidou, Malamatenia Arvanitidou-Vagiona, Despoina Papakosta, Theodoros Kontakiotis, Despoina Ioannidou, Maria Mavroudi, Paul Zarogoulidis, Konstantinos Porpodis, Michail Siarkos

PA3160 An audit of supplemental oxygen prescribing practices in an inpatient setting and its financial burden.
Sridesh Nath (Brooklyn, United States of America), Sarath Nath, Shweta Kumar, Fei Yang Liang, Christian Abraham, Naila Shereen, Jason Green, Miguel Ramirez, Aaliya Burza, Patrick Geraghty

PA3161 Household expenditure for tuberculosis care, its determinants and coping strategies among adults 18 years and older of Karachi, Pakistan.
Shama Razzaq (Karachi, Pakistan), Aysha Zahidie, Zafar Fatmi

PA3162 Cost-utility analysis of a Home-based disease management intervention for patients with severe COPD in the COMET study.
Denis GRANADOS (Gentilly, France), Jean Bourbeau, Isabelle Durand-Zaleski, Stéphane Roze, Romain Kessler

PA3163 Patient views on payment for trial participation
Rebecca Dobra (London, United Kingdom), Tracy Higgins, Katherine Huband, Emily Guilmant, Sharon Fleming

PA3164 Determination of Attitudes of Turkish Thoracic Society Members on Exposure to Sexist Approach and Sexism in Business Life

PA3165 Quality indicators in pleural pathology
Herminia Ortiz Mayoral (, Spain), Reyes Calzado López, Rosario Melchor Iñiguez, Nuria Abad Santamaría, Maria Teresa Rio Ramirez, Ismael Ali García, Bárbara Steen, Mercedes Izquierdo Patrón, Beatriz Morales Chacón
7.3A Session 307 13:00 - 14:30

Lunchtime session: New biologics for asthma: which patients, which agents, which results, at what cost?
a joint NEJM session

Aims: Multiple biological agents have recently become available for treating asthma and are being heavily promoted by industry. The translational scientist views them as biologically informative tools, while the clinician views them as new ways to help difficult-to-treat patients. These different views lead to important questions that this session seeks to answer. They include, but are not limited to, How do these agents exert their effects? What do we really know about these treatments and how should they be used in clinical practice? How are the available agents similar and different? Which side effects should be closely monitored? Do these treatments modify the “natural course” of asthma? Are these treatments worth their cost?

Disease(s): Airway diseases

Method(s): Cell and molecular biology  General respiratory patient care  Pulmonary function testing

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Physiologist, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Jeffrey Drazen (Boston, United States of America), Klaus F. Rabe (Grosshansdorf, Germany)

13:00  The basic science behind asthma biologies  Sally Wenzel (Pittsburgh, United States of America) 3168

13:20  At the interface: the translational science supporting the clinical use of anti-cytokine therapy  Elisabeth H.D. Bel (Amsterdam, Netherlands) 3169

13:40  Real-world experience with new asthma treatments  Roland Buhl (Mainz, Germany) 3170

14:00  Panel discussion: including a patient with asthma being treated with new biologics 3171
7.3M  Session 311  13:00 - 14:15
Assembly members' meeting: Assembly 7 Paediatrics
Chairs: Jonathan Grigg (London, United Kingdom), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

7.3O  Session 312  13:00 - 14:15
Assembly members' meeting: Assembly 6 Epidemiology and Environment
Chairs: Christer Janson (Uppsala, Sweden), Charlotte Suppli Ulrik (Virum, Denmark)

7.3P  Session 313  13:00 - 14:15
Assembly members' meeting: Assembly 3 Basic and translational sciences
Chairs: Pieter S. Hiemstra (Leiden, Netherlands), Catherine Greene (Dublin, Ireland)

7.2B  Session 314  13:00 - 14:15
Lungs on fire: Paediatric Respiratory Diseases
Aims:
• Study real challenging clinical cases
• Learn and exchange ideas with a panel of respiratory experts
• Discuss the various diagnosis and treatment options

Disease(s): Paediatric respiratory diseases
Tag(s): Clinical
Target audience: Paediatrician, Allergist, General practitioner, Lung function technologist, Nurse, Physiotherapist, Radiologist, Thoracic oncologist, Trainee
Chairs: Fabio Midulla (Roma (RM), Italy), Monika Gappa (Wesel, Germany), Alexander Möller (Zürich, Switzerland), Louise Fleming (London, United Kingdom), Jürg Hammer (Basel, Switzerland)

Session facilitator introduction
Jürg Hammer (Basel, Switzerland)

Case 1 - Author: R. Commondoor (Bangalore, India)
Case 2 - Author: N. Nathan (Paris, France)
Case 3 - Author: M. Diaconu (Sheffield, United Kingdom)
Case 4 - Author: C.L.H. Brackel (Voorburg, the Netherlands)
Case 5 - Author: Chris Course (Cardiff, United Kingdom)
Case 6 - Author: Rehab Zaki (Tanta, Egypt)

7.3J  Session 316  13:00 - 14:30
Patient forum: Occupational lung disease – professional and patient perspectives
Aims: Occupational lung disease remains an important and challenging area in terms of diagnosis, treatment and policy. Featuring experts from primary and specialist care alongside patients who formerly worked in sandblasting and engineering, this session will explore key themes around lung health in the workplace including:

- Prevention - how can workers be better informed and protected from the risks?
- Poor detection of occupational lung disease – why is occupational lung disease often missed, what is the impact, and what needs to change?
- Diagnostic techniques
- Management of occupational lung disease and disability
- What is the impact of having a lung condition at work, particularly when caused by your job? What needs to change to improve awareness of lung health in the workplace?

Chairs: Rafael E. de la Hoz (New York, United States of America)

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Introduction</td>
<td>Rafael E. de la Hoz (New York, United States of America)</td>
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<tr>
<td>13:15</td>
<td>Initial questions/comments from the audience</td>
<td>Rafael E. de la Hoz (New York, United States of America)</td>
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<td>13:25</td>
<td>Professor Metin Akgün and Bego (Abdulhalim) Demir</td>
<td>Metin Akgün (Erzurum, Turkey), Abdulhalim Demir (, Turkey)</td>
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<tr>
<td>13:45</td>
<td>Professor David Fishwick and David Batchelor</td>
<td>David Fishwick (Sheffield (South Yorkshire), United Kingdom), David Batchelor (Leicester, United Kingdom)</td>
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<tr>
<td>14:05</td>
<td>Final Q&amp;A from the audience</td>
<td>Rafael E. de la Hoz (New York, United States of America)</td>
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13:15-14:30
INDUSTRY PRACTICAL WORKSHOP
SEE PAGE 1

7.3A Session 333 14:45 - 16:45
Hot topics: Chronic pulmonary aspergillosis: from guidelines to real-life implementation
Based on ERS/ECMID guidelines

Aims: At the conclusion of this hot topic session, the participant will: (i) understand the spectrum of chronic pulmonary aspergillosis (CPA); (ii) be able to diagnose CPA on the basis of the recent ERS/ESCMID guidelines, which focus on a combination of clinical, radiological and mycological characteristics; (iii) be aware of the consensus regarding the management and treatment of CPA; and (iv) feel encouraged to collaborate with CPA net to promote clinically oriented research in the field of CPA.

Disease(s): Respiratory infections
Method(s): General respiratory patient care Imaging Surgery
Tag(s): Clinical
Target audience: Allergist, Critical/Intensive care physician, Pathologist, Patient, Radiologist, Student, Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Jacques Cadranel (Paris Cedex 20, France), David W. Denning (Manchester (Greater Manchester), United Kingdom)

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<tr>
<th>Time</th>
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<tr>
<td>14:45</td>
<td>The global burden of CPA</td>
<td>Helmut J. F. Salzer (Linz, Germany)</td>
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<tr>
<td>15:15</td>
<td>An update on CPA diagnosis</td>
<td>Iain Page (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td>15:45</td>
<td>Achieving consensus regarding the current treatment options for CPA</td>
<td>Cendrine Godet (Poitiers, France)</td>
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<tr>
<td>16:15</td>
<td>Radiology in CPA: from diagnosis to treatment</td>
<td>Francois Laurent (Bordeaux, France)</td>
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7.3N Session 334 14:45 - 16:45
Symposium: Imaging chronic lung diseases: moving from structure to function
Lung imaging

Aims: to provide an update regarding lung imaging techniques and their clinical applications in several chronic lung diseases; to increase understanding about the role of imaging in disease detection, stratification and prognostication; and to describe the advantages and limitations of lung imaging in clinical investigation.
**Disease(s)**: Airway diseases, Interstitial lung diseases

**Method(s)**: Imaging

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, General practitioner, Paediatrician, Radiologist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs**: Aleksandar Grgic (Homburg, Germany), Maren Schuhmann (Heidelberg, Germany)

**14:45** Interstitial disease - more than meets the eye  
Jens Vogel-Claussen (Hannover, Germany)

**15:15** Chronic obstructive pulmonary disease - moving from structure to function  
Grace Parraga (London (ON), Canada)

**15:45** Asthma imaging - not just bronchoconstriction  
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

**16:15** Cystic fibrosis and bronchiectasis - from visual scoring to new imaging analysis systems  
Harm Tiddens (Rotterdam, Netherlands)

### 7.1A  
**Session 335**  
14:45 - 16:45

**Guidelines session: Idiopathic pulmonary fibrosis diagnosis: new guidelines**

**Aims**: (i) To describe the methodology that was used to develop the new ATS-ERS Guidelines on Idiopathic pulmonary fibrosis; (ii) to discuss how to perform high-resolution CT (HRCT) in usual interstitial pneumonia and to describe its imaging pattern on HRCT; (iii) to describe the histopathological pattern of interstitial pneumonia; and (iv) to discuss the recommended diagnostic approach to IPF, with a particular focus on the important role of multidisciplinary discussions. Areas that require further attention will be discussed throughout the session.

**Disease(s)**: Interstitial lung diseases, Respiratory critical care

**Method(s)**: Endoscopy and interventional pulmonology, Imaging, Public health

**Tag(s)**: Clinical

**Target audience**: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs**: Ganesh Raghu (Seattle, United States of America), Luca Richeldi (Roma, Italy), Venerino Poletti (Forli, Italy)

**14:45** Objectives and methodology used to develop the 2018 IPF diagnostic guidelines  
Luca Richeldi (Roma, Italy)

**14:55** HRCT chest: technique and pattern of usual interstitial pneumonia  
Martine Remy-Jardin (Lille, France)

**15:20** Histopathological pattern of usual interstitial pneumonia  
William Travis (New York, United States of America)

**15:45** Recommendations for specific diagnostic interventions  
Ganesh Raghu (Seattle, United States of America)

**16:15** Panel discussion

### 7.1B  
**Session 336**  
14:45 - 16:45

**Symposium: Advances in community-acquired pneumonia management**

**Aims**: to provide an update on the management tools and therapies for community-acquired pneumonia (CAP).

**Disease(s)**: Respiratory infections, Respiratory critical care

**Method(s)**: General respiratory patient care, Imaging, Respiratory intensive care

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, Critical/Intensive care physician, General practitioner, Patient, Radiologist, Scientist (basic, translational), Student, Adult pulmonologist/Clinician, Nurse, Physiotherapist, Thoracic surgeon

**Chairs**: Marcos I. Restrepo (San Antonio, United States of America), Rosario Menendez Villanueva (Valencia, Spain)

**14:45** Diagnosing CAP – advances in imaging  
Yann-Erick Claessens (Monaco, Monaco)
### Session 337 14:45 - 16:45

**Hot topics: Roles of innate lymphoid cells in asthma**

**Aims:** To highlight some recent and important discoveries in innate lymphoid cell biology that provide new insights in the pathological mechanisms in asthma and that hint at future treatment possibilities.

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<th>Disease(s):</th>
<th>Method(s):</th>
<th>Tag(s):</th>
<th>Target audience</th>
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<tr>
<td>Airway diseases</td>
<td>Cell and molecular biology, Physiology</td>
<td>Basic science</td>
<td>Allergist, Clinical researcher, Paediatrician, Physiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician</td>
</tr>
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**Chairs:** Cezmi A. Akdis (Davos, Switzerland), William Busse (Madison, United States of America)

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<thead>
<tr>
<th>14:45</th>
<th>Prostaglandin E2 suppresses the function of human group 2 innate lymphoid cells</th>
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<tr>
<td></td>
<td>Jenny Mjösberg (Stockholm, Sweden)</td>
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<tr>
<th>15:15</th>
<th>Steroid resistance of airway type 2 innate lymphoid cells from patients with severe asthma: the role of thymic stromal lymphopoietin</th>
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<td>Rafeul Alam (Denver, United States of America)</td>
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<tr>
<th>15:45</th>
<th>Allergen-experienced group 2 innate lymphoid cells acquire memory-like properties and enhance allergic lung inflammation</th>
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<td>Fumio Takei (Vancouver, Canada)</td>
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<tr>
<th>16:15</th>
<th>Human CD40 ligand-expressing type 3 innate lymphoid cells induce interleukin (IL)-10-producing immature transitional regulatory B-cells</th>
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<td>Zsolt István Komlósi (Tarnok, Hungary)</td>
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### Session 338 14:45 - 16:45

**Symposium: Microbiomes in respiratory disease**

**Aims:** to provide a state-of-the-art update that will inform respiratory researchers, clinicians and health professionals about the role of microbiomes in respiratory disease. Leading experts in the field will review the current research and provide perspectives and opinions regarding the role of the microbiome in both disease pathogenesis and protection from disease. The intergenerational transmission of the microbiome and its effects will also be discussed. In addition, the therapeutic potential of manipulation of local and systemic microbiomes will be described.

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<tr>
<td>Airway diseases</td>
<td>Cell and molecular biology, Epidemiology, Public health</td>
<td>Basic science</td>
<td>Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Paediatrician, Pathologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician</td>
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**Chairs:** Ay e Bilge Öztürk (Istanbul, Turkey), Philip Hansbro (Callaghan, Australia)

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<tr>
<th>14:45</th>
<th>The microbiome and childhood respiratory diseases</th>
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<td>Hans Bisgaard (Hellerup, Denmark)</td>
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<tr>
<th>15:15</th>
<th>Gut microbiomes in chronic obstructive pulmonary disease</th>
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<td>Sanjay Sethi (Buffalo, United States of America)</td>
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<tr>
<th>15:45</th>
<th>Environmental exposures to the microbiome</th>
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<td>Christopher Carlsten (Vancouver (BC), Canada)</td>
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7.3B  
**Session 339  14:45 - 16:45**

**Oral presentation: New methods for diagnosing and treating lung diseases**

**Disease(s):**  
- Respiratory infections  
- Airway diseases  
- Interstitial lung diseases  
- Respiratory infections

**Method(s):**  
- Imaging  
- Surgery  
- Physiology  
- Epidemiology  
- Cell and molecular biology  
- General respiratory patient care

**Chairs:**  
Alfredo Chetta (Parma (PR), Italy), Philippe Camus (Dijon, France)

**OA3265**  
**Late Breaking Abstract - Use of mepolizumab in bronchiectasis with underlying eosinophilic condition**
Jessica Rademacher (Hannover, Germany), Jan Fuge, Tobias Welte, Felix C. Ringshausen

**OA3266**  
**Does the sonographic presence and severity of pleural fluid septation have an impact on clinical outcomes in pleural infection? - Data from the Pleural Infection Longitudinal Outcome Study (PILOT)**
John Corcoran (Oxford, United Kingdom), Ioannis Psallidas, Stephen Gerry, Nick Maskell, Robert Miller, Najib Rahman

**OA3267**  
**Proinflammatory cytokine IL-6 detection in severe COPD patients: Focus on roflumilast**
Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Ksenia Ostrovskva, Mariana Kulynych-Miskiv, Oleksandr Varunkiv

**OA3268**  
**To the diagnosis of primary ciliary dyskinesia without situs inversus**
Vyacheslav Kobyljansky (Moscow, Russian Federation), Elena Bragina

**OA3269**  
**The development and validation of a Quality of Life questionnaire for those with Inducible Laryngeal Obstruction**
Lucy Bassil (Bedford (Bedfordshire), United Kingdom), Nicola Pargeter, Jodie Fellows, Catherine Maskell, Ruth Howard, Adel Mansur

**OA3270**  
**An extensive bundle of tests is needed to detect treatable causes of bronchiectasis (Bx)**
Elisa Franceschi (Milano (MI), Italy), Stefano Alberti, Manuela Seia, Luigi Porcaro, Vera Bianchi, Enza Consalvo, Angelo Corsico, Ilaria Ferrariotti, Michele Gaffuri, Luca Roncoroni, Barbara Vigone, Andrea Gramegna, Martina Contarini, Francesco Amati, Noemi Borsa, Fabrizio Nava, Nicolò Vanoni, Angela Bellofiore, Cesare Del Monaco, Leonardo Terranova, Martina Oriano, Lisa Cariani, Flavio Caprioli, Mario Nosotti, Francesco Blasi

**OA3271**  
**High flow nasal cannula use on respiratory inpatients: Identifying patient groups and outcomes to guide optimal future use.**
Thomas Nicholson (Oxford (Oxfordshire), United Kingdom), Louise Channon, Harriet Williams, Mitra Shahidi

**OA3272**  
**Physiological mechanisms of exertional dyspnea relief following bariatric surgery for severe obesity**
Amar Mainra (Montréal (QC), Canada), Sara Abdallah, Ryan Reid, Ross Andersen, Dennis Jensen

**7.3Z2  
**Session 340  14:45 - 16:45**

**Oral presentation: Molecular mechanisms and treatment of pulmonary hypertension**

**Disease(s):**  
- Pulmonary vascular diseases  
- Interstitial lung diseases

**Method(s):**  
- General respiratory patient care  
- Physiology  
- Cell and molecular biology

**Chairs:**  
Christophe Guignabert (Paris, France), Chair to be confirmed

**OA3273**  
**Late Breaking Abstract - MIF inhibition in a murine model of bleomycin-induced lung fibrosis**
Sven Günther (Le Kremlin-Bicêtre, France), Thônh Hua, Carole Nicco, Amélie Cumont, Raphaël Thuillet, Ly Tu, Jennifer Bordenave, Thomas Guilbert, Frédéric Batteux, Marc Humbert, Christophe Guignabert, Anh-Tuan Dinh-Xuan

**OA3274**  
**Late Breaking Abstract - NGF induces pulmonary arterial hyperreactivity through increased connexin-43 expression: potential role in pulmonary hypertension**
Veronique Freund-Michel (BORDEAUX Cedex, France), Matthieu Douard, Paul Robillard, Juliette Deweirdt, Isabelle Baudrimont, Mathilde Dubois, Roger Marty, Jean-Pierre Saveineau, Bernard Muller, Christelle Guibert

**OA3275**  
**Late Breaking Abstract - Molecular mechanisms involved in early stage of pulmonary hypertension: experimental study**
Francis Pacagnelli (Santo Anatásctio, Brazil), Ana Paula Freire, Ana Karenina Sabela, Sarah Cory, Robson Carvalho, Thaoan Mariano, Yudney Motta, Antônio Cicogna, Katsuki Okoshi

**OA3276**  
**Late Breaking Abstract - Chronic Hypoxia Promotes Pulmonary Venous Smooth Muscle Cells Proliferation by Upregulating Calcium Sensing Receptor**
Gongyong Peng (Guangzhou (Guangdong), China), Shaoxing Li, Wei Hong, Juan Xu, Rongmin Liu, Bing Li, Pixin Ran
Late Breaking Abstract - Development of an animal model for group 3 Pulmonary Hypertension
Diana Santos Ribeiro (Auderghem, Belgium), Marylène Lecocq, Michele De Beukelaer, Caroline Bouzin, Yousof Yakoub, Rozenn Querc, Olivier Vancenengem, François Huaux, Sandrine Horman, Frederic Perros, Laurent Godinas, Charles Pilette

Late Breaking Abstract - Infrared thermography on patients with Pulmonary Hypertension. Prognostic value.
Eliana Evangelina Calegari (Berazategui, Argentina), Nicolas Atamañuk, Diego Litewka, Rafael Zaugg Nadur, Diego Hoffmann, B Mangariole, Patricia Guitelman, Miguel Payaslian

Late Breaking Abstract - Clinical Efficacy and Safety of Macitentan Transitioned from Bosentan in Patients with Pulmonary Arterial Hypertension
Sarfraz Ahmed Saleemi (Riyadh, Saudi Arabia), Abdullah M Aldalaan, Ihab M Aldalaan, Ihab M Weheba

7.3K Session 341 14:45 - 16:45
Symposium: The best of the European Respiratory Journal in 2018
Aims: In this session, the section editors of the European Respiratory Journal (ERJ) in the fields of asthma, interstitial lung disease, tuberculosis and sleep medicine/ventilation will choose and present essential elements of the (in their expert opinion) best papers that were published in the ERJ between late 2017 and July 2018.

Disease(s): Airway diseases, Sleep and breathing disorders
Method(s): Epidemiology, General respiratory patient care, Physiology
Tag(s): Clinical
Target audience: Allergist, Clinical researcher, Patient, Trainee, Adult pulmonologist/Clinician
Chairs: Martin Kolb (Hamilton (ON), Canada), Marc Humbert (Paris, France)

14:45 The best ERJ papers in asthma and allergy
Paul O’Byrne (Hamilton (ON), Canada)

15:15 The best ERJ papers in interstitial and rare lung diseases
Vincent Cottin (Lyon, France)

15:45 The best ERJ papers in tuberculosis
Giovanni Battista Migliori (Varese (VA), Italy)

16:15 The best ERJ papers in sleep medicine and ventilation
Patrick Lévy (Grenoble, France)

7.3Q Session 342 14:45 - 16:45
Oral presentation: Pathophysiological aspects of sleep-disordered breathing: intermittent hypoxia

Disease(s): Sleep and breathing disorders
Method(s): Imaging, Physiology, Cell and molecular biology
Chairs: Isaac Almendros (Barcelona, Spain), Silke Ryan (Dublin 14, Ireland)

Late Breaking Abstract - Differential effect of intermittent hypoxia and sleep fragmentation in the progression of Alzheimer Disease in a mouse model of obstructive sleep apnea
Isaac Almendros (Barcelona, Spain), Maria José Menal, David Gozal, Anna Colell, Ramon Farré

Intermittent hypoxia, the hallmark of sleep apnea, induces HIF-1-dependent mitochondrial dysfunction
Sophie MOULIN (Grenoble, France), Marion Pauly, Amandine Thomas, Maximin Detrait, Guillaume Vial, Frederic Lamarche, Herve Dubouchaud, Claire Arnaud, Diane Godin-Riboulot, Elise Belaïdi-Corsat

Mechanisms involved in the deleterious impact of intermittent hypoxia on ischemic cardiomyopathy.
Maximin Déttrait (La Tronche, France), Guillaume Bourdier, Sophie Moulin, Elise Belaïdi, Claire Arnaud

Transcriptomic analysis identifies a unique, intermittent hypoxia mediated inflammatory profile: evidence from a cross-over randomised CPAP withdrawal trial, with and without supplemental oxygen, in OSA
Christopher Turnbull (Oxford (Oxfordshire), United Kingdom), Lemard Lee, Nayia Petousi, John Stradling

Acetylsalicylic Acid Prevents Intermittent Hypoxia-Induced Vascular Remodeling in a Murine Model of Sleep Apnea
Isaac Almendros (Barcelona, Spain), Monique S Suarez-Giron, Marta Torres, Josep M Montserrat, Cesar Picado, David Gozal, Anabel Castro-Grattoni, Manuel Sanchez-De-La-Torre, Ferran Barbé, Ramon Farré
The effects of CPAP-withdrawal on cerebral vascular reactivity and brain oxygenation in patients with obstructive sleep apnoea: a randomised-controlled trial.
Sira Thiel (Zürich, Switzerland), Franziska Lettau, Sarah R Haile, Protazy Rejmer, Esther I Schwarz, Anna Stöberl, Noriane Sievt, Cristina Rossi, Anton Becker, Andreas Boss, John R Stradling, Malcolm Kohler

Independent association between obstructive sleep apnea severity and liver stiffness
Wojciech Trzepizur (Angers CEDEX 9, France), Jérôme Boursier, Marc Le Vaillant, Pierre-Henri Ducluzeau, Séverine Dubois, Samir Henri, Pierre Abraham, Christophe Aubé, Paul Calès, Frédéric Gagnadoux

Ticagrelor and central sleep apnea: analysis of VigiBase, the WHO pharmacovigilance database
Bruno Revol (Grenoble cedex 9, France), Ingrid Jullian-Desayes, Renuad Tamisier, Vincent Puel, Michel Mallaret, Marie Joyeux-Faure, Jean-Louis Pépin

Oral presentation: Ventilation and lung imaging in critically ill patients
Disease(s): Respiratory critical care
Method(s): Imaging General respiratory patient care Transplantation Cell and molecular biology Respiratory intensive care
Chairs: Marcus Schultz (Amsterdam, Netherlands), Ezgi Özyilmaz (Adana, Turkey)

Late Breaking Abstract - Biological phenotypes of ARDS show differential expression of genes involved in oxidative phosphorylation and immunomodulation: an illustration for the need of personalized medicine in ARDS.
Lieuwe Bos (Amsterdam, Netherlands), Brandon Sciulina, Tom Van Der Pol, David Ong, Olaf Cremer, Marcus Schultz

A lung volume change protocol prevents lung collapse after PEEP decrement in recovering ARDS
Mathuwaadee Prapuksaphan (Bangkok, Thailand), Napplika Kongpolprom

Weaning with or without PEEP?
Mehyar Lavae-Mokhtari (Ibbenbueren, Germany), Gabriela May, Joachim Fichter, Nicolas Dickgreber

Proportional assist ventilation (pav+) versus pressure support ventilation (psv) for weaning and patient ventilator interaction in chronic obstructive pulmonary disease.
Aliae Abdurab Mohamed-Hussein (Assiut, Egypt), Suzan Salama, Waleed Gamal

Lung autopsy in patients with lung infiltrates died in the intensive care unit
fernando rodriguez (Montevideo, Uruguay), Nicolas Nin, Javier Hurtado, Ana Vilas, Cristina Davila

Thin-Section CT in patients with smoke inhalation injury
Cheol-Hong Kim (Gyeonggi-do, Republic of Korea), Dong-Gyu Kim

Global versus Regional Lung Ultrasound Scoring in Critically Ill Patients with Invasive Ventilation
Luigi Pisani (Amsterdam, Netherlands), Veronica Vercesi, Marry Smit, Marcus J. Schultz

Lung aeration as assessed by lung ultrasound is independent of tidal volume size in intensive care unit patients with invasive ventilation
Marry Smit (Amsterdam, Netherlands), Luigi Pisani, Fabienne Simonis, Marcus Schultz

Oral presentation: Lung cancer: new aspects in diagnosis and management
Disease(s): Thoracic oncology Sleep and breathing disorders
Method(s): General respiratory patient care Cell and molecular biology
Chairs: Joanna Chorostowska-Wynimko (Warsaw, Poland), Wouter H. van Geffen (Leeuwarden, Netherlands)

PD-L1 expression on lung cancer stem cells in metastatic lymph nodes.
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecien, Malgorzata Polubiec-Kownacka, Elżbieta Rutkowska, Joanna Domagala-Kulawik

A variant in LKB1 gene can predict the clinical outcomes of chemotherapy in patients with non-small cell lung cancer
Seung Soo Yoo (Daegu, Republic of Korea), Hyewon Seo, Hyo-Gyoun Kang, Deuk Kju Jung, Jin Eun Choi, Hyeyoung Park, Hyejin Lee, Hong Guen Oh, Young Hun Lee, Sun Ha Choi, Shin Yup Lee, Jaehee Lee, Seung Ik Cha, Chang Ho Kim, Jae Young Park

Predictive role of plasmatic biomarkers in advanced non-small cell lung cancer (NSCLC) treated with nivolumab (nivo).
Adrien Costantini (Paris, France), Catherine Julie, Coraline Dumenil, Zofia Hélias-Rodzewicz, Jennifer Dumoulin, Violaine Giraud, Sylvie Labrune, Thierry Chinet, Jean-Francois Emile, Etienne Giroux-Leprieur
OA3303  BRONCHIAL MICROBIOME IN PATIENTS WITH LUNG CANCER  
Jose Javier Vengoechea (Zaragoza, Spain), Ana Lucia Figueredo, Marta Cobo, Laura Torralba, Javier Errasti, Elisa Minchole, Rosa Del Campo, Salvador Bello

OA3304  Prevalence of obstructive sleep apnea (OSA) in patients with lung cancer. Results from the prospective SAIL study Sleep Apnea In Lung Cancer  
Elena Cabezas Pastor (Madrid, Spain), Maria Teresa Pérez-Warnisher, María Fernanda Troncoso, Teresa Gómez, Rosario Melchor, Germán Peces-Barba, Nicolás González Mangado, Luis Seijo

7.3P  Session 345  14:45 - 16:45  
Oral presentation: Recent insights in childhood asthma and wheezing

OA3305  Prescribed analgesics in pregnancy and the risk of child asthma - a register-based study.  
Bronwyn Brew (Stockholm, Sweden), Catarina Almqvist, Cecilia Lundholm, Seif Shaheen

OA3306  Association of early life factors with wheezing phenotypes in preterm-born children compared to term-born children  
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), W. John Watkins, John Lowe, Raquel Granell, A. John Henderson, Sailesh Kotecha

OA3307  Early life vitamin D levels and childhood respiratory morbidity and allergic sensitization  
Rosalie Mensink-Bout (Rotterdam, Netherlands), Evelien R. Van Meel, Johan C. De Jongste, Irwin K. Reiss, Vincent W.V. Jaddoe, Liesbeth Duijts

OA3308  Early childhood growth patterns and lung function and asthma at 10 years  
Maribel Casas (Barcelona, Spain), Herman T. Den Dekker, Claudia J. Kruithof, Irwin K. Reiss, Martine Vrijheid, Jordi Sunyer, Johan C. De Jongste, Vincent W.V. Jaddoe, Liesbeth Duijts

OA3309  GST genotypes modify the association between paracetamol use in early life and lung function at 18 years  
Xin Dai (Truganina (VIC), Australia), Shyamali Dharmage, Michael Abramson, Adrian Lowe, Jennifer Perret, Bircan Erbas, Nilakshi Waidyatilake, Caroline Lodge

OA3310  Indoor microbial diversity and risk of different wheezing phenotypes  
Anne M. Karvonen (Kuopio, Finland), Pirkka V. Kirjavainen, Martin Täubel, Balamuralikrishna Jayaprakash, Rachel I. Adams, Martin Depner, Anne Hyvärinen, Sami Remes, Erika Von Mutius, Juha Pekkanen

OA3311  Using a Bayesian approach and external validation to predict persistent asthma at the age of 10 and 20 years in general and high-risk populations  

7.3L  Session 346  14:45 - 16:45  
Poster discussion: Pulmonary hypertension: right ventricle function, haemodynamics and exercise

PA3312  Epigenetic effects of exercise and respiratory training in patients with pulmonary arterial hypertension  
Christian Eichstaedt (Heidelberg, Germany), Jeremias Verweyen, Jie Song, Zixuan Pan, Nicola Benjamin, Christine Fischer, Ekkehard Grunig

PA3313  Dynamic right ventricular-pulmonary arterial (RV-PA) uncoupling during incremental exercise in HFpEF  
Inderjit Singh (new haven, United States of America), Farbod Rahaghi, Rudolf Oliveira, David Systrom, Aaron Waxman

PA3314  The pulmonary artery pulsatility index correlates with ventriculo-vascular coupling and elevated filling pressures in patients with pulmonary arterial hypertension.  
Roberto Bernardo (Oklahoma City, United States of America), Rebecca Vanderpool, Franz Rischar

PA3315  Reappraising the effects of pulmonary artery wedge pressure on right ventricular pulsatile loading  
Denis Chemla (Le Kremlin-Bicêtre, France), Emmanuelle Berthelot, Jason Weatherald, Laurent Savale, Pierre Attal, David Montani, Olivier Sitbon, Marc Humbert, Philippe Herve, Patrick Assayag
Right atrial pressure at rest and during exercise in patients with and without pulmonary hypertension: A retrospective analysis
Silvia Ulrich (Zurich, Switzerland), Patrick Bader, Lukas Herren, Stéphanie Saxer, Mona Lichtblau, Charlotte Berlier, Esther Schwarz, Michael Furian, Konrad Bloch

Association of intrinsic right ventricular function with exercise tolerance and ventilatory efficiency in pulmonary arterial hypertension
Toshitaka Nakaya (Sapporo, Japan), Hiroshi Ohira, Takahiro Sato, Taku Watanabe, Noriko Ohama-Manabe, Shintaro Kinugawa, Masaharu Nishimura, Ichizo Tsujino

Increased right ventricular systolic:diastolic duration ratio predicts mortality in idiopathic pulmonary arterial hypertension
Colm McCabe (Cambridge (Cambridgeshire), United Kingdom), Irena Ivanac Vranesic, Wei Li, Laura Price, Aleksander Kempny, Konstantinos Dimopoulos, S. John Wort

Right ventricular size and contractile reserve significantly correlate in patients with pulmonary hypertension
Alberto Maria Marra (Heidelberg, Germany), Lukas Fischer, Nicola Benjamin, Benjamin Egenlauf, Satenik Harutyunova, Hans-Martin Lorenz, Norbert Blank, Christian Nagel, Christine Fischer, Ekkehard Gruenig

Pulmonary vascular distensibility in pulmonary hypertension due to left heart disease
Christian Gerges (Wien, Austria), Mario Gerges, Irene Lang

The impact of obesity on pulmonary haemodynamic interpretation
Geoffrey Watson (London, United Kingdom), Christopher Baker, Michael Polkey, Luke Howard

Incremental Shuttle Walk Test predicts survival in non-Group 1 Pulmonary Hypertension without a ceiling effect
Robert Lewis (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Judith Hurdman, Iain Armstrong, Ian Smith, Matthew Austin, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Allan Lawrie, Roger Thompson, Robin Condliffe, David Kiely

Incremental shuttle walking test distance is reduced in patients with pulmonary hypertension in WHO Functional Class I
Robert Lewis (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Iain Armstrong, Judith Hurdman, Ian Smith, Matthew Austin, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Allan Lawrie, Roger Thompson, Robin Condliffe, David Kiely

Parasympathetic activity in pulmonary arterial hypertension: could a simple measure do the trick?
Paolo Parrella (Napoli (NA), Italy), Giacomo Campi, Alessio Rodolico, Angela Mancini, Riccardo Franco, Dalila Bruno, Alessandra Cuomo, Gabriele Tochetti, Mario Petretta, Domenico Bonaduce, Valentina Mercurio

Echocardiographic assessment in lowlanders vs. highlanders living above 2500m
Mona Lichtblau (Zürich, Switzerland), Stéphanie Saxer, Patrick Bader, Michael Furian, Philipp Scheiwiller, Maamed Mademilov, Bermet Estebesova, Batyr Osmonov, Nuriddin Marazhapov, Ulam Sheraliev, Talant Sooronbaev, Konrad Bloch, Silvia Ulrich

Characterization of dynamic left ventricular systolic and diastolic function in patients with obstructive sleep apnea syndrome with preserved left ventricular ejection fraction
Angelo Canora (Napoli (NA), Italy), Antonello D'Andrea, Carmine Nicoletta, Simona Sperlongano, Giacomo Ghinassi, Giorgio Emanuele Polistina, Gianpaolo Tocci, Marialuisa Bocchino

Correlation between sympathovagal modulation and functional capacity in pulmonary arterial hypertension patients.
Katya Rigatto (Porto Alegre (RS), Brazil), Gabriela Roncato, Fabrizio Fontoura, Fernanda Spilimbergo, Gisela Meyer, Guilherme Watte, Walter Vargas, Karina Casali, Danilo Berton

Does inspiratory muscle training improve the sympathovagal balance and endothelial function in groups I and IV of pulmonary hypertension?
Fabrizio Farias da Fontoura (Porto Alegre (RS), Brazil), Gabriela Roncato, Fernan Spilimbergo, Gisela Meyer, Guilherme Watte, Walter Vargas, Danilo Berton, Katya Rigatto

Cardiopulmonary exercise test provides valuable information on function and prognosis in PAH
Rocco Francesco Rinaldo (Milano (MI), Italy), Luke Sebastian Howard

Terminal 7  Session 347  14:45 - 16:45
Oral presentation: Lung transplant science: from primary graft to chronic allograft dysfunction
Disease(s) : Respiratory infections, Respiratory critical care, Respiratory infections
Method(s) : Imaging, Transplantation
Chairs : Christian Benden (Zürich, Switzerland), Robin Vos (Leuven, Belgium)
Influences of primary graft dysfunction (PGD) on parenchymal remodeling after lung transplantation (LT) detected by mean quantitative computed tomography (CT).

Andrea Aliverti (Milan, Italy), Caterina Salito, Davide Tosi, Francesca Pennati, Rosaria Carrinola, Lorenzo Rosso, Paolo Tarsia, Letizia Morlacchi, Mario Nosotti, Alessandro Palleschi

Diagnosis of antibody-mediated rejection (AMR) on lung transplant biopsies: A retrospective single-center case study

Silvana Geleff (Vienna, Austria), Gottfried Fischer, Peter Jaksch

Is influenza trivalent vaccination effective in lung transplant recipients?

Jana Kleinerova (Dublin 8, Ireland), Lana Khorsheed, Sean Walsh, Patricia Ging, Sara Winward, Iain Lawrie, Breda Lynch, Jim Egan

Clinical implications of host-bacteria-virus interactions in lung transplantation

Daniel-Adrien Wurlod (Lausanne, Switzerland), Eric Bernasconi, Celine Pattaroni, John-David Aubert, Benjamin Marsland, Laurent Nicod

Bronchiectasis as prognostic factor in bronchiolitis obliterans syndrome after lung transplantation

Anke Van Herck (Leuven, Belgium), Annelore Sacreas, Tobias Heigl, Stijn Verleden, Bart Vanaudenaerde, Walter De Wever, Geert Verleden, Robin Vos

The murine orthotopic single lung transplantation model for chronic rejection: work in progress?

Tobias Heigl (Leuven, Belgium), Janne Kaes, Annelore Sacreas, Anke Van Herck, Greetje Vande Velde, Stijn Verleden, Geert Verleden, Wim Janssens, Robin Vos, Bart Vanaudenaerde

B cells drive iBALT formation in a mouse model of chronic allograft dysfunction

Natalia Smirnova (München, Germany), Thomas Conlon, Carmela Morrow, Ali Oender Yildirim, Oliver Eickelberg
**PA3344**

Associations between isometric and dynamic quadriceps measures with functional capacity in chronic obstructive pulmonary disease (COPD)
Kim-Ly Bui (Québec (QC), Canada), Sunita Mathur, Nathalia Maia, Pat Camp, Gail Dechman, Francois Maltais, Didier Saey

**PA3345**

Validation of isometric quadriceps muscle strength testing and relationship with functional capacity in COPD
Kim-Ly Bui (Québec (QC), Canada), Sunita Mathur, Nathalia Maia, Pat Camp, Gail Dechman, Francois Maltais, Didier Saey

**PA3346**

A high degree of dyspnea is associated with poor exercise capacity in COPD patients, airflow obstruction being equal
Ernesto Crisafulli (Modena (MO), Italy), Marina Aiello, Panagiotas Tzani, Antonella Ielpo, Chiara Longo, Veronica Alfieri, Giuseppina Bertorelli, Alfredo Chetta

**PA3347**

Noninvasive negative pressure ventilation improves survival of COPD patients with exercise desaturation
Hung Yu Huang (Taipei, Taiwan), Te-Fang Sheng, Chee Jen Chang, Lan-Yan Yang, Chun-Hua Wang, Han-Pin Kuo

**PA3348**

Influences of obstruction and hyperinflation on electrocardiographic P wave, QRS and T wave axis in COPD
Peter Alter (Marburg, Germany), Henrik Watz, Kathrin Kahnert, Klaus F. Rabe, Frank Bierzt, Ronald Fischer, Philip Jung, Jana Graf, Robert Bals, Claus F. Vogelmeier, Rudolf A Jorres

**PA3349**

Effects of dynamic hyperinflation on left ventricular diastolic function in healthy males – a randomized study
Anna Katharina Mayr (Grieskirchen, Austria), Matthias Helmut Urban, Ingrid Schmidt, Otto Chris Burghuber, Georg-Christian Funk

**PA3350**

Effect of changes in peak inspiratory flow on the dose of salbutamol delivered by nebulizers under simulated conditions
John Pritchard (Newtown Linford, United Kingdom)

**PA3351**

Pulmonary artery diameter and nocturnal hypoxemia in smokers with/without COPD.
Marta Marin Oto (Pamplona (Navarra), Spain), Marta Calvo, Jessica Gonzalez, Oscar Claveria, Borja Recalde, Ana Belen Alcaide, Juan Bertó, Arantza Campo, Javier Zulueta, Gorka Bastarrika, Luis Seijo, Juan Pablo De Torres

**PA3352**

Evaluation of a newly developed spirometer to measure dynamic lung hyperinflation by the method of incremental hyperventilation in patients with COPD.
Keisaku Fujimoto (Matsumoto, Japan), Shohei Kawachi

**PA3353**

Short-course pulmonary rehabilitation and exacerbations and activity of COPD patients over 1 year
Fanny W.S. Ko (Shatin, Hong Kong), Ka-Pang Chan, Wilson Tam, Ivor Wong, Tat-On Chan, April Ip, David Shu-Cheong Hui

**PA3354**

Nasal high flow therapy: The effect on exercise performance in patients with COPD
Paul Kelly (Christchurch, New Zealand), Paul Kelly (Dublin 7, Ireland), Jaimie Dikstaal, Lutz Beckert

**Session 349**

14:45 - 16:45

**Poster discussion: Exercise is medicine: testing and treating patients with some effort**

**Disease(s):** Airway diseases, Pulmonary vascular diseases, Thoracic oncology, Sleep and breathing disorders

**Method(s):** Cell and molecular biology, General respiratory patient care, Surgery, Physiology

**Chairs:** Michael Furian (Zürich, Switzerland), Joaquim Gea Guiral (Barcelona, Spain)

**PA3355**

Exercise induced bronchoconstriction assessed using the forced oscillation technique
Leigh Seconthe (Sydney (NSW), Australia), Lachlan Buddle, Matthew Peters, Claude Farah

**PA3356**

T2-endotype predicts bronchodilator (BD) response in Exercise-Induced Bronchoconstriction (EIB)
Matteo Bonini (London, United Kingdom), Jacopo Messina, Simone Petrarulo, Daniel Piamonti, Marcello Di Paolo, Marco Brunori, Paolo Palange, Omar Usmani

**PA3357**

Is continuous laryngoscopy during cardiopulmonary exercise testing reliable for measuring maximum oxygen uptake?
Ida Jansrud Hammer (Neslttn, Norway), Lars Peder Bovim, Maria Vollseto, Ola Roksund, Thomas Halvorsen, Hege H. Clemm

**PA3358**

Laryngeal laser surgery reduces neural respiratory drive and work of breathing in exercise-induced laryngeal obstruction
Emil S. Walsted (Frederiksberg, Denmark), Azmy Faisal, Matthew J. Pavitt, Vibeke Backer, Yuan-Ming Luo, Michael I. Polkey, James H. Hull

**PA3359**

Intercostal muscle oxygenation during expiratory load breathing
Quentin Bretonneau (Poitiers, France), Claire de Bisschop, Aurélien Pichon
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<td>Acute effect of non-invasive ventilation during FES-rowing exercise in patients with high-level spinal cord injury</td>
<td>Isabelle Vivodtzev (Cambridge, United States of America), Glen Picard, Felipe Xerez Cepeda, J. Andrew Taylor</td>
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<td>PA3361</td>
<td>Influence of the VitaBreath on Exercise Tolerance in Patients with COPD</td>
<td>Nikolaos Chynkiamis (Newcastle upon Tyne, United Kingdom), Matthew Armstrong, Vivien Spencer, Nick Lane, Tom Hartley, William Gray, Stephen Bourke, Ioannis Vogiatzis</td>
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<td>PA3362</td>
<td>Effect of ambulatory continuous positive airway pressure on neural respiratory drive and functional capacity in excessive dynamic airway collapse</td>
<td>Georgios Kaltsakas (Athens, Greece), Maxime Patout, Gill Arbane, Elodie Lhuillier, Liju Ahmed, David D'Cruz, Michael Polkey, James Hull, Nicholas Hart, Patrick B. Murphy</td>
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<td>PA3363</td>
<td>Breathing pattern and post-exercise inspiratory muscle fatigue in COPD: Comparing step tests and cycle ergometry</td>
<td>Tiago Rodrigues De Lemos Augusto (Campo Grande, Brazil), Karina Utida, Paulo Muller</td>
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<td>PA3364</td>
<td>Inter-individual variability in breathlessness perception in chronic obstructive pulmonary disease</td>
<td>Peter Siu Pan Cho (London, United Kingdom), Hannah Victoria Fletcher, Irem S Patel, Gerrard Francis Rafferty, John Moxham, Richard Douglas Turner, Surinder Singh Birring, Caroline Judith Jolley</td>
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<td>PA3365</td>
<td>Sensorial and physiological responses to symptom-limited progressive exercise in dyspneic subjects with inspiratory muscle weakness</td>
<td>Bianca Feldmann (Ivoti, Brazil), Franciele Plachi, Debora Hütten, Ricardo Gass, Reisi Zambiazi, Fernanda M Balzan, Marcelo B Gazzana, Danilo C Berton</td>
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<td>PA3366</td>
<td>Validation of the Timed Up and Go test to detect fallers in COPD patients</td>
<td>Vivien Reynaud (Clermont Ferrand, France), Daniela Muti, Annick Greil, Denis Caillaud, Ruddy Richard, Emmanuel Coudeyre, Frédéric Costes</td>
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<td>PA3367</td>
<td>Non-invasive assessment of pulmonary microcirculation at rest and exercise in patients with previous pulmonary thromboembolism</td>
<td>Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Renata Diniz Marques, Brandon Palmer, Christine D’Arsigny, Denis E O’Donnell, J Alberto Neder</td>
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<td>PA3368</td>
<td>The cardiopulmonary exercise test (CPET) in the evaluation of functional capacity before and after cardiac resynchronization therapy (CRT)</td>
<td>Fabiana Baldi (Rome, Italy), Fabiana Baldi, Maria Rosaria Castriotti</td>
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<td>PA3369</td>
<td>The role of peak oxygen consumption measurement in predicting postoperative pulmonary complications in patients with early stage lung cancer</td>
<td>Deniz Koksal (ankara, Turkey), Ferhad Ibrahimov, Sevke Sarinc Ulasli, Erkan Dikmen, Yigit Yilmaz, Elif Babaoglu, Funda Aksu, Emin Maden, Riza Dogan, Salih Emri</td>
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<td>PA3370</td>
<td>Investigating a relationship between obesity hypoventilation and physical function in severe obesity</td>
<td>Imran Johan Meurling (Dublin 4, Ireland), Emer O'Malley, Colin Dunlevy, Cathy Breen, Tomas Ahern, Tara Cusack, Donal O’Shea, John Garvey</td>
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<td>PA3371</td>
<td>Role of training in SNIP maneuvers in Amyotrophic Lateral Sclerosis patients</td>
<td>Paola Pierucci (Sydney (NSW), Australia), Michela Dimitri, Vito Liotino, Agnese Caringella, Pierluigi Carratu, Silvano Dragomier, Onofrio Resta</td>
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<td>PA3372</td>
<td>Long-term effects of high-intensity training after lung cancer surgery — A five-years follow-up of a randomized controlled trial</td>
<td>Elisabeth Edvardsen (Oslo, Norway), Sigmund A Anderssen, Fredrik Borchenius, Ole Henning Skjønsberg</td>
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**7.2C Session 350  14:45 - 16:45**

**Poster discussion:** Cryobiopsy in interstitial lung disease (ILD)

**Disease(s):** Thoracic oncology, Interstitial lung diseases, Respiratory infections, Respiratory infections

**Method(s):** Imaging, Endoscopy and interventional pulmonology

**Chairs:** Jürgen Hetzel (Tuebingen, Germany), Lizzy Wijmans (Amsterdam, Netherlands)

- Evaluation of Transbronchial Lung Cryobiopsy Freezing Time, Cryobiopsy Size, Histological Quality and Incidence of Complication: A Prospective Clinical Trial
  - ShuLiang Guo (BARCELONA, Spain), Yishi Li, Jiawei Wei

- Evaluation of novel cryoprobes for transbronchial cryobiopsy – an in-vivo animal study
  - Jürgen Hetzel (Tuebingen, Germany), Walter Linzenbold, Markus Enderle, Daniela Nüßle, Hans Bösmüller, Venerino Poletti
Cycrobiopsy versus VATS in management of patients with UIP possible
Donato Lacedonia (Molfetta (BA), Italy), Domenico Loizzi, Nicla Ardò, Giovanna Elisiana Carpagnano, Massimo Selmi, Antonio Giuseppe Palmiotti, Ennio Vincenzo Sassani, Simona Tortorella, Francesco Sollitto, Maria Pia Foschino Barbara

Performance of cycrobiopsy versus forcep biopsy in adjacent and eccentrically orientated R-EBUS lesion
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Mei Ching Yong, Swee Kim Chan, Siew Teck Tie

Probe-based confocal laser endomicroscopy in differential diagnosis of interstitial lung diseases
Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Irina Tabanakova, Roman Velshikaev, Sultan Gsanmagomedov, Piotr Yablonskii

Cycrobiopsy in diagnosis of smear negative pulmonary tuberculosis (SNPTB)
Tamer Ali El-Hadidy (Mansoura, Egypt), Mohammad K. Badrawy, Mohsen M. El Shafey1, Mohamed A. Abo El Ela2, Nadia W. El Sharkawy1

Catheter tract metastasis in mesothelioma patients with indwelling pleural catheters
Sarah Hosseini (Ottawa (ON), Canada), Michael Mitchell, Pen Li, Carolina Souza, Kayvan Amjadi

Transbronchial lung cryobiopsy in asthmatic patients: is it useful?
Sara Colella (Teramo (TE), Italy), Claudia Ravaglia, Chiara Massaccesi, Vittorio D'Emilio, Gianluca Panella, Federica Fioretti, Guido Collina, Riccardo Pela, Venerino Poletti

Single centre experience in safety and diagnostic yield of cryobiopsy
Ana Hećimović (Zagreb, Croatia), Sonja Badovinac, Mihovil Roglić, Denis Baričević, Marija Alilović, Ivica Mažuranić, Ante Marušić, Sven Seiwerth, Lovorka Batelja Vuletić, Miroslav Samaržija

Utility of transbronchial lung cryobiopsy with cryoprobe in DPLD
Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Swapnil Bakamwar, Parimal Deshpande, Vinit Niranjane

Utility of radial probe endobronchial ultrasound guided transbronchial lung biopsy
Kyoung Chan Kim (Daegu city, Republic of Korea), Eun Jin Kim, Chi Young Jung

Transbronchial cryobiopsy guided by radial-EBUS for diagnosing interstitial lung diseases
Maciej Gnass (Myślenice, Poland), Artur Bartczak, Anna Filarecka, Stanisław Orzechowski, Jerzy Soja, Małgorzata Szolkowska, Renata Langfort, Artur Szlubowski

TRANSBRONCHIAL LUNG CRYOBIOPSY IN AN INTENSIVE CARE UNIT
Mª Rosa Cordovilla Perez (Salamanca, Spain), Virginia Guevara, Milagros Rosales, Susana Blanco P, Marta Paz Perez, Juan Alejandro CascoÑ, Clara Martí Macià, Mª Dolores LudeñA De La Cruz, Miguel Angel HernáNdez Mezquita, Jose Mª González Ruiz

Diagnostic yield of transbronchial cryobiopsy in peripheral lung lesions
Hanaa Shafiek (Alexandria, Egypt), Rezk Elaraby, Anwar Alganady, Mohamed Elhoffer

Cryobiopsy increases diagnostic yield in mucosal endobronchial lesions in comparison to forceps biopsy
Ahmed Ehab Abdallah (Mansoura, Egypt), Mohammad Khairy El-Badrawy, Amr Abdelhamed Moawad, Mohammad Eldesoky Abo-Shehata

Transbronchial cryobiopsy protocol and diagnostic yield in diffuse parenchymal lung disease: a retrospective study
Lígia Sofia Fernandes (Lisboa, Portugal), Catarina Antunes, Andrea Machado, Eva Brysch, Tiago Abreu, Leonor Mota, Júlio Semedo, Leonardo Ferreira, Analisa Ribeiro, Cristina Bárbara

Cryobiopsy - the utility in diagnostic bronchoscopy for ground-glass nodules-
Yuji Matsumoto (Tokyo, Japan), Toshiyuki Nakai, Tomoki Nishida, Midori Tanaka, Takaaki Tsuchida, Yuichiro Ohe

7.2D Session 351 14:45 - 16:45
Poster discussion: Innovations in equipment and their application
Disease(s): Airway diseases Interstitial lung diseases Pulmonary vascular diseases Respiratory infections Sleep and breathing disorders
Method(s): General respiratory patient care Imaging Epidemiology Physiology
Chairs: Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)
Marcia Soares (Leicester (Leicestershire), United Kingdom), Matthew Richardson, James Thorpe, John Owens-Bradley, Salman Siddiqui
| PA3391 | Does using a forehead or finger sensor during the six minute walk test impact oxygen saturation measurement? | Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvester, Beverley Moseley, Helen Parfrey, Karen Sheares, Katrina Oates |
| PA3392 | Structured Light Plethysmography as a method of recording disease severity in Cystic Fibrosis | Muhammad Irfan Khan (Cambridge, United Kingdom), Patricia Set, Mike Harrison, Alex Phythian, Chris Harding, Ines Henriques-Cadby, Stephen Walters, Karl Sylvester |
| PA3393 | Association between nasal and bronchial resistance in patients with COPD | Gunta Strazda (Riga, Latvia), Kristine Jakone, Normunds Jurka, Olga Madaja, Dace Zentina, Immanuels Taivans |
| PA3394 | Impulse oscillometry in restrictive respiratory diseases | Olga Savushkina (Moscow, Russian Federation), Alexander Cherniak, Marina Kameneva, Evgenij Kryukov, Andrey Zaytsev |
| PA3395 | The effect of comorbid Metabolic Syndrome and latent Obstructive Sleep Apnoea on the baseline medical parameters of volunteers screened from a Barrett's Esophagus Registry. | Peter Coss (Dublin 8, Ireland), D Otoole, N Ravi, M Obrien, N Clarke, P Lawlor, J O'Sullivan, P Goodman, J Reynolds, Am Mc Laughlin |
| PA3396 | Prediction of individual cardiac output from measured VO2 and ventilation | Min-Yeong Kang (Palsameau, Republic of Korea), Thong Hua-Huy, Sven Gunther, Anh Tuan Dinh-Xuan, Bernard Sapoval |
| PA3397 | How do forehead and finger sensors align to capillary oxygen saturation during the six minute walk test? | Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvester, Beverley Moseley, Parfrey Helen, Sheares Karen, Katrina Oates |
| PA3398 | Do predicted tidal volumes have value in setting up domiciliary non-invasive ventilation? | Sara Parsons (Surbiton (Surrey), United Kingdom), Emma Baker |
| PA3399 | Post-bronchodilator response (PBDR) evaluated by plethysmographic and spirometric target parameters in patients with COPD, asthma-COPD-overlap (ACO) and asthma | Richard Kraemer (Muri-Bern, Switzerland), Monika Leuenberger, Fabian Gardin, Jürg Barandun, Karl Klingler, Lukas Kern, Martin Brutsche |
| PA3400 | Modification of inspired oxygen fraction does not change exercise oxygen uptake measured by JAEGER® Vyntus CPX; a validation study | Ronald de Jeu (Leiden, Netherlands), Robert Schot, Herman Groepenhoff, Aarten K. Ninaber |
| PA3401 | Quantification of airflow limitation in chronic obstructive pulmonary disease | Khaled Hussein (Assiut, Egypt), Sarah Helal, Randa Ezzeldin, Ahmed Hamed |
| PA3402 | Effect of wearing the Elevation Training Mask 2.0 on pulmonary and respiratory muscles function | Marina Segizbaeva (St. Petersburg, Russian Federation), Nina Aleksandrova |
| PA3403 | Obstructive sleep apnea after weight loss: when should we repeat the sleep study? | Ana Lutas (Lisboa, Portugal), Sofia Furtado, Richard Staats, João Valença, Teresa Pequito, Marco Pereira, Paulo Roquete |
| PA3404 | Detailed physiological profiling of patients for a study investigating the airway microbiome | Aisling McGowan (Dublin, Ireland), Orla O'Carroll, Anna O'Brien, Seamus Cox, Patrick Goodman, Conor Burke |
| PA3405 | Reference values for impulse oscillometry for children aged 3–18 years obtained using lambda-mu-sigma method – preliminary results | Jakub Radliński (Rabka-Zdrój, Poland), Henryk Mazurek, Zbigniew Doniec, Grzegorz Siergiejko, Bożena Nowowiejska |
| PA3406 | Diagnostic accuracy of asthma severity grading using machine learning features and lung sounds | Shrikant Pawar (Pune (Maharashtra), India), Sundeep Salvi, Yogesh Thorat, Rich Fletcher, Aneesh Anand, Christian Infante, Neerja Shastri, Vandana Vincent |

7.3J Session 352 14:45 - 16:45
Poster discussion: Latest developments in cystic fibrosis

**Disease(s):** Airway diseases, Respiratory infections

**Method(s):** Public health, Respiratory intensive care, Cell and molecular biology, Physiology, Epidemiology, General respiratory patient care

**Chairs:** Mirjam Stahl (Heidelberg, Germany), Jane C. Davies (London, United Kingdom)
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<td>Synergistic activity of colistin in combination with N-acetylcysteine against colistin-resistant Acinetobacter Baumannii grown in biofilms</td>
<td>Francesco Sergio (Neuchâtel, Switzerland), Simona Pollini, Selene Boncompagni, Tiziana Di Maggio, Stefano Aliberti, Francesco Blasi, Lucia Pallecchi, Gian Maria Rossolini</td>
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<td>PA3408</td>
<td>Safety and efficacy of intravenous (IV) Fosfomycin in adult cystic fibrosis patients</td>
<td>Carlotta Biglia (Orbassano (TO), Italy), Cristina Bena, Giacomo Bonizzoni, Michela Bilocchia, Alessia Grande, Fabio Traversa, Elisa Clivati, Gianpiero Bandelli, Sara Demichelis, Carlo Albera, Barbara Messore</td>
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<td>PA3409</td>
<td>Azoles therapeutic drug monitoring and fungal antimicrobial resistance in adults with Cystic Fibrosis</td>
<td>Marcello Di Paolo (Roma (RM), Italy), Kavita Dave, Anitha Vijayasingam, Roosey Sheth, Emma Luke, Andrew Scourfield, Lisa Nwankwo, Silke Schelzen, Joseph Stuart Elborn, Darius Armstrong-James, Anand Shah</td>
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<td>PA3410</td>
<td>The prevalence and diversity of fungi in respiratory samples of cystic fibrosis patients – a Dutch, nationwide, prospective, multicentre study</td>
<td>Peter J. F. M. Merkus (Nijmegen, Netherlands), Tobias Engel, Lydie Slabbers, Carmen De Jong, Willem Melchers, Ferry Hagen, Paul Verweij, Jacques Meis</td>
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<td>PA3413</td>
<td>Reduced uptake of inhaled carbon in airway macrophages from children with cystic fibrosis</td>
<td>Norrice Liu (London, United Kingdom), Lisa Miyashita, Jonathan Grigg</td>
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<td>PA3414</td>
<td>Retrospective analysis of treatment with Ivacaftor/Lumacaftor in patients with cystic fibrosis at the Munich Cystic Fibrosis Centers</td>
<td>Susanne Nachrig (München, Germany), Pontus Mertsch, Matthias Griese, Matthias Kappler, Rudolf M Huber</td>
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<td>PA3415</td>
<td>Effects of Lumacaftor-Ivacaftor Therapy on CFTR Function in Phe508del Homozygous Patients with Cystic Fibrosis</td>
<td>Simon Y. Gräber (Berlin, Germany), Christian Dopfer, Lutz Nachfrich, Lena Gyulmyan, Heike Scheuermann, Stephanie Hirtz, Sabine Wege, Heimo Mairbaeur, Marie Dorda, Rebecca Hyde, Azadeh Bagheri-Hanson, Claudia Ruckes-Nilges, Sebastian Fischer, Marcus A. Mall, Burkhard Tummler</td>
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<td>PA3416</td>
<td>Noninvasive ventilation (NPPV) affects Pulmonary Exacerbation (PE) rate in Cystic Fibrosis children (CFC). GABRIELLA FERREYRA (TORINO, Italy), Lorenzo Appendini, Lucia Ronco, Irene Esposito, Elisabetta Bignamini</td>
<td>Lorenzo Appendini, Lucia Ronco, Irene Esposito, Elisabetta Bignamini</td>
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<td>PA3417</td>
<td>Exercise capacity in patients with cystic fibrosis at 6 and 12 months after lung transplantation</td>
<td>Marco Damin (Padova (PD), Italy), Michela De Toni, Maria Rita Marchi, Gabriele Foltran, Erica Bazzan, Graziella Turato, Marina Saetta, Manuel Cosio</td>
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<td>PA3418</td>
<td>Acute effects of combined exercise and oscillatory positive expiratory pressure therapy on sputum properties and lung diffusing capacity in cystic fibrosis: a randomized, controlled, crossover trial</td>
<td>Thomas Radtke (Zürich, Switzerland), Lukas Boeni, Peter Bohnacker, Marion Maggi-Bebba, Peter Fischer, Susi Kriemler, Christian Benden, Holger Dressel</td>
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<td>PA3419</td>
<td>Risk factors for early lung function decline in young children with Cystic Fibrosis</td>
<td>Juan Balinotti (Ciudad Autónoma Buenos Aires, Argentina), Daniel Chang, Viviana Rodriguez, Silvana Lubovich, Silvana Zaragoza, Natalia Escobar, Carlos Kofman, Lucia Perez, Victoria Aréz, Alejandro Teper</td>
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<td>PA3420</td>
<td>The TLR4 regulator miR-21 is downregulated in the paediatric cystic fibrosis airway</td>
<td>Arlene Glasgow (Dublin 9, Ireland), Arlene Glasgow, Sebastian Vencen, Chiara De Santi, Rana Raoof, David Henshall, Barry Linnane, Paul McNally, Catherine Greene</td>
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<td>PA3421</td>
<td>HspB5 in Cystic Fibrosis</td>
<td>Fanny Degrujillier ( Créteil, France), Xavier Decrouy, Virginie Prulière-Escabasse, Chong Jiang, Daniela Rotin, Pascale Fanen, Stéphanie Simon</td>
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<td>PA3422</td>
<td>Large phenotypic spectrum associated with two new deep intronic variants on the CFTR gene</td>
<td>Anne BERGOUGNOUX (Montpellier Cedex 5, France), Karine Deletang, Jessica Varilh, Florence Houriez, Jean-Pierre Altié, Michel Koenig, Claude Férec, Claustraes Mireille, Thierry Bienvenu, Marie-Pierre Audrezet, Adrien Pagin, Emmanuelle Girodon, Caroline Raynal, Magali Taulan-Cadars</td>
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PRO-INFLAMMATORY ACTIVITY AND OXIDATIVE STRESS ON A LINE OF CYSTIC FIBROSIS (CF) HUMAN RESPIRATORY EPITHELIUM
Juan Manuel Figueroa (Ciudad Autónoma Buenos Aires, Argentina), Mariángeles Clauzure, Ángel Gabriel Valdivieso, María Macarena Massip-Copiz, Consuelo Mori, Andrea Vanesa Dugour, Doris Primrose, Tomas Santa Coloma

PA3424
Plasma ceramides and sphingomyelins increase in primary ciliary dyskinesia but decrease in cystic fibrosis
Dilara Bal Topcu (Ankara, Turkey), Gökçen Tugcu, Filiz Ozcan, Mutay Aslan, Sanem Esref, Mina Gharibzadeh Hizal, Ebru Elmas Yalcin, Deniz Dogru Ersoz, Ugur Ozcelik, Nural Kiper, Incilay Lay, Yesim Oztas

7.3R Session 353  15:00 - 16:00
Educational forum: Ensuring impactful independent education
CPD and lifelong leaning
Aims: This session brings together ERS educational leadership, national society representatives, and educationalists alike to discuss the key issues in respiratory medical education, including:
- assessing educational needs
- importance of continuing professional development for better patient outcomes
- trends and challenges
The audience will be encouraged to discuss the key issues that they are facing in their local, national and international educational settings.
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Policy maker, Paediatrician, Patient
Chairs: Daiana Stolz (Basel, Switzerland), Vivienne Parry (Oxon, United Kingdom)

15:00  Introduction
Daiana Stolz (Basel, Switzerland)  3425

15:10  Assessing the educational needs (individual, multi-disciplinary team, country, profession/specialty)
Stefano Aliberti (Milan, Italy)  3426

15:25  Importance of continuing medical professional development
- Patient perspective - patient outcomes (I. Saraiva)
- Professionals perspective - impact, behaviour change, ensuring standards, outcomes (R. Stevenson)
- Innovation (C. Jackson)
Isabel Saraiva (Cascais, Portugal), Robin Stevenson (Glasgow (Glasgow), United Kingdom), Chad Jackson, United States of America  3427

15:40  Discussion (open floor)  3428

15:55  Conclusions and wrap up
Daiana Stolz (Basel, Switzerland)  3429

7.3K Session  17:00 - 17:50
Group members' meeting: Group 9.2 Physiotherapists
Chairs: Daniel Langer (Leuven, Belgium), Deniz Inal-Ince (Ankara, Turkey)

17:15-19:15
INDUSTRY EVENING SYMPOSIUM  SEE PAGE 1

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM  SEE PAGE 1
Skills workshop: SW14 Radiological-pathological correlations in different lung diseases for clinicians FULLY BOOKED

Aims: Access educational materials here to demonstrate and discuss the radiological and pathological correlations in different lung diseases (lung emphysema, interstitial fibrosis and lung cancer) with experienced and less experienced participants.

Disease(s): Airway diseases, Thoracic oncology
Tag(s): Clinical

Target audience: General practitioner, Nurse, Adult pulmonologist/Clinician, Radiologist, Scientist (basic, translational), Student, Thoracic surgeon, Trainee

Chairs: Bogdan Dragos Grigoriu (Bruxelles, Belgium)

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<td>Wim Timens (Groningen, Netherlands), Hans-Ulrich Kauczor (Heidelberg, Germany)</td>
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<td><strong>Interstitial fibrosis</strong></td>
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<td>Catherine Beigelman-Aubry (Lausanne, Switzerland), Aurelie Fabre (Dublin, Ireland)</td>
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<td><strong>Lung cancer</strong></td>
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<td>Sebastian Ley (München, Germany), Philipp A. Schnabel (Homburg (Saar), Germany)</td>
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Skills workshop: SW15 Radiological-pathological correlations in different lung diseases for clinicians

Aims: Access educational materials here to demonstrate and discuss the radiological and pathological correlations in different lung diseases (lung emphysema, interstitial fibrosis and lung cancer) with experienced and less experienced participants.

Disease(s): Airway diseases, Thoracic oncology
Tag(s): Clinical

Target audience: General practitioner, Nurse, Adult pulmonologist/Clinician, Radiologist, Scientist (basic, translational), Student, Thoracic surgeon, Trainee

Chairs: Bogdan Dragos Grigoriu (Bruxelles, Belgium)

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<td><strong>Lung emphysema</strong></td>
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<td>Claus Peter Heussel (Heidelberg, Germany), Wim Timens (Groningen, Netherlands)</td>
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<td><strong>Interstitial fibrosis</strong></td>
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<td>Annette Fisseler-Eckhoff (Wiesbaden, Germany), Sara Tomassetti (Forli, Italy)</td>
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<td><strong>Lung cancer</strong></td>
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<tr>
<td>Walter De Wever (Leuven, Belgium), Philipp A. Schnabel (Homburg (Saar), Germany)</td>
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Skills workshop: SW17 Essential skills for the intensive care unit

Aims: Access educational materials here to learn the essential skills needed for the daily work in intensive care units.

Disease(s): Respiratory critical care
Tag(s): Clinical

Target audience: Critical/Intensive care physician, General practitioner, Paediatrician, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Cesare Gregoretti (Palermo, Italy)

| Introduction | 3740 |
### Session 487 14:30 - 16:50

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

#### Skills workshop: SW18 Essential skills for the intensive care unit

**Aims:** Access educational materials [here](#) to learn the essential skills needed for the daily work in intensive care units.

**Disease(s):** Respiratory critical care

**Method(s):** Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Paediatrician, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Christian Bruells (Aachen, Germany)

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### Session 392 08:30 - 12:00

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

#### Skills workshop: SW19 Clinical interpretation of spirometry results FULLY BOOKED

**Aims:** Access educational materials [here](#) to know how to interpret spirometry tests; to be able (1) to differentiate between poor technique and technical errors and abnormal spirometry by evaluating patterns in flow volume and volume time curves; and (2) to recognise abnormal from normal spirometry when interpreting curves and results tables by comparing the measured values with the reference values.

**Disease(s):** Airway diseases, Pulmonary vascular diseases, Sleep and breathing disorders

**Chairs:** Felip Burgos Rincon (Barcelona, Spain), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

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Look at F-V/V-T traces and describe the range of abnormal shapes
Lindsay Zurba (Durban, South Africa), Vicky Moore (Birmingham (West Midlands), United Kingdom), Flemming Madsen (Vanløse, Denmark), Marija Vukoja (Sremska Kamenica, Republic of Serbia) 3729

10:25
Common discussion 3730

Describe the severity of any abnormality
Lindsay Zurba (Durban, South Africa), Vicky Moore (Birmingham (West Midlands), United Kingdom), Flemming Madsen (Vanløse, Denmark), Marija Vukoja (Sremska Kamenica, Republic of Serbia) 3731

11:10
Common discussion 3732

Write a spirometry report
Lindsay Zurba (Durban, South Africa), Marija Vukoja (Sremska Kamenica, Republic of Serbia), Vicky Moore (Birmingham (West Midlands), United Kingdom), Flemming Madsen (Vanløse, Denmark) 3733

11:45
Common discussion 3734

Explanation on post-course assessment
Felip Burgos Rincon (Barcelona, Spain) 3735

7.3V Session 484 13:30 - 17:00
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW20 Clinical interpretation of spirometry results

Aims: Access educational materials here To know how to interpret spirometry tests; to be able (1) to differentiate between poor technique and technical errors and abnormal spirometry by evaluating patterns in flow volume and volume time curves; and (2) to recognise abnormal from normal spirometry when interpreting curves and results tables by comparing the measured values with the reference values.

Disease(s): Airway diseases Pulmonary vascular diseases Sleep and breathing disorders

Chairs: Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Aisling McGowan (Dublin, Ireland)

13:30 Introduction
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Aisling McGowan (Dublin, Ireland) 4871

13:45 Recognise technically poor traces and errors of measurement
Arne Drews (Grimma, Germany), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia) 4872

14:05 Common discussion 4873

14:15 Deciding on reference values and how to calculate them
Arne Drews (Grimma, Germany), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia) 4874

14:40 Common discussion 4875

14:50 Break 4876

Look at F-V/V-T traces and describe the range of abnormal shapes
Arne Drews (Grimma, Germany), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Jana Kivastik (Tartu, Estonia), Ebymar Arismendi Nunez (Barcelona, Spain) 4877

15:05
Common discussion 4878

Describe the severity of any abnormality
Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Arne Drews (Grimma, Germany) 4879

15:25
Common discussion 4880

Write a spirometry report
Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Arne Drews (Grimma, Germany) 4881

15:45
Common discussion 4882

16:05 Explanation on post-course assessment
Brendan Cooper (Edgbaston (Birmingham), United Kingdom) 4883
7.2D Session 471 13:00 - 14:00

Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME9 Cryobiopsy in interstitial lung disease FULLY BOOKED

**Aims:** Access educational materials here to discuss how to safely perform the bronchoscopic cryobiopsy technique in interstitial lung disease, with a focus on patient selection (indications and contraindications), and to describe how to prevent and deal with possible complications.

**Disease(s):** Interstitial lung diseases

**Method(s):** Endoscopy and interventional pulmonology Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Pathologist, Patient, Radiologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Lizzy Wijmans (Amsterdam, Netherlands)

13:00 Cryobiopsy in interstitial lung disease

Venerino Poletti (Forlì, Italy) 4835

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7.3F Session 474 13:00 - 14:00

Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME10 Pulmonary arterial hypertension: treatment options FULLY BOOKED

**Current strategies and future perspectives**

**Aims:** Access educational materials here to summarise the current treatment strategies for pulmonary arterial hypertension (PAH) in light of the results of recent clinical trials, and to discuss ongoing investigations on different pathways that may shape future PAH treatment.

**Disease(s):** Pulmonary vascular diseases

**Method(s):** General respiratory patient care Transplantation

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Nurse, Patient, Physiotherapist, Student, Adult pulmonologist/Clinician

**Chairs:** Sheila Ramjug (Altrincham, United Kingdom)

13:00 Pulmonary arterial hypertension: treatment options

Olivier Sitbon (Le Kremlin-Bicêtre, France) 4844

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7.3E Session 473 13:00 - 14:00

Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME11 Management of severe asthma in children FULLY BOOKED

**Aims:** Access educational materials here to discuss the definition of severe asthma in children and to describe the recommendations regarding the evaluation and treatment of these patients.

**Disease(s):** Airway diseases Paediatric respiratory diseases

**Method(s):** Epidemiology General respiratory patient care Public health Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Policy maker, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Raffaella Nenna (Rome, Italy)

13:00 Management of severe asthma in children

Jonathan Grigg (London, United Kingdom) 4843

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7.3I Session 475 13:00 - 14:00

Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME12 Immunotherapies for lung cancer FULLY BOOKED

**New diagnostic and therapeutic options**

**Aims:** Access educational materials here to provide profound insights into the new developments in the field of immunotherapy in lung cancer, and to describe solid diagnostic and therapeutic algorithms.
Disease(s) : Thoracic oncology
Method(s) : Cell and molecular biology  General respiratory patient care  Imaging
Tag(s) : Clinical
Target audience : Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

13:00 Immunotherapies for lung cancer
Thierry Berghmans (Brussels, Belgium) 4845

7.3U Session 480 13:15 - 14:15
Registration for this session is additional to the congress registration fee and is €122 on site.

Meet the expert: ME13 Management of pulmonary and critical care disease during pregnancy
Aims : Access educational materials here  To understand the normal respiratory and cardiovascular physiology of pregnancy; to understand the management of asthma and venous thromboembolism during pregnancy; to explain the causes and management of acute respiratory failure in pregnancy.

Disease(s) : Respiratory critical care
Tag(s) : Clinical
Target audience : Critical/Intensive care physician, General practitioner, Nurse, Student, Trainee, Adult pulmonologist/Clinician, Patient

13:15 Management of pulmonary and critical care disease during pregnancy
Stephanie Levine (San Antonio, United States of America) 4863

7.2C Session 367 07:00 - 08:15

Challenging clinical cases: CC6 Interstitial lung diseases
Aims : Access educational materials here  To present complex cases of rare ILDs and discuss in an interactive fashion. These cases were clinically very difficult, and the session will describe how the diagnosis was made, the radiological and pathological patterns in the case, and the pathogenetic mechanisms that were identified. The aim is to increase knowledge about the modalities that were used to build up the clinical reasoning and the biological mechanisms that may connect different disorders.

Disease(s) : Interstitial lung diseases  Pulmonary vascular diseases
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Pathologist, Radiologist, Thoracic surgeon, Trainee

Chairs : Jan C. Grutters (Nieuwegein, Netherlands)

Acute respiratory failure: 7 years after monolateral lung transplant for COPD
Claudia Ravaglia (Forlì, Italy) 3510

Lung nodules: an unusual cause
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom) 3511

Primary Pulmonary Amyloidosis - The experience at a tertiary hospital on the Gold Coast, Australia
Robert Carroll (Brisbane (QLD), Australia) 3512

CT and FDG PET/CT findings of pulmonary involvement in methotrexate-associated lymphoproliferative disease
Sachi Matsubayashi (Tokyo, Japan) 3513

7.2D Session 368 07:00 - 08:15

Challenging clinical cases: CC7 Severe asthma
Aims : Access educational materials here  To present challenging cases of patients with severe asthma and comorbidity. It will address disease-specific challenges, including issues with compliance and risk management. To describe how the diagnosis was made and the pathogenetic mechanisms that may be involved. To increase also the knowledge about patients with severe asthma and the treatment approaches available.

Disease(s) : Airway diseases
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Nurse, Paediatrician, Trainee, Student

Chairs : Antonio Spanevello (Milan, Italy)

Case 1
Pascal Chanez (Marseille, France) 3514
### Case 2
Stephen James Fowler (Preston (Lancashire), United Kingdom)

#### Eosinophilic otitis media and eosinophilic asthma; shared pathophysiology and response to anti-IL5
Marieke T. Drijver-Messelink (Groningen, Netherlands)

#### Asthma evolution before and after diagnosis and treatment for Chronic eosinophilic leukemia
Cristina Calarasu (Craiova (Dolj), Romania)

#### ABPA diagnosis in a late onset, difficult to treat, asthma in a 84 year-old female
Konstantinos Eleftheriou (Athens, Greece)

### 7.3J Session 369 07:00 - 08:15
#### Challenging clinical cases: CC8 Non-resolving pneumonia
**Aims:** Access educational materials here
To review diagnosis and management of possible pulmonary and non-pulmonary causes of non-resolving pneumonia.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Student, Trainee

**Chairs:** Miquel Ferrer Monreal (Barcelona, Spain)

**Non-responding pneumonia in a renal transplanta**
Rosario Menendez Villanueva (Valencia, Spain)

**Respiratory organising pneumonia**
Sebastian Ott (Bern, Switzerland)

**Denosumab therapy recipient presenting with Cryptococcosis pneumonia with polymicrobial superinfection**
Shiang-Fen Huang (Taipei, Taiwan)

**Community-Acquired Pneumonia with Evolving Cavitation and Peripheral Eosinophilia**
Alexander Ryu (Rochester, United States of America)

**Recurrent pneumonia in a patient with HIV**
Jorge Alberto Ordoñez Cardales (Bogotá, Colombia)

### 7.3A Session 372 08:30 - 10:30
#### Session: Pulmonary endoscopy
Lung cancer and the pleural diseases

**Aims:** It is important to correctly diagnose and stage the many patients with suspected lung cancer that the clinician will encounter in pulmonary practice. The techniques that will be demonstrated in this session are confocal endoscopy, transparenchymal nodule access (TPNA), EBUS/EUS-B and advanced thoracoscopy. The aim is to demonstrate and comment on established methods such as EBUS and advanced thoracoscopy as well as to introduce the upcoming options such as confocal endoscopy and TPNA.

**Disease(s):** Thoracic oncology

**Tag(s):** Clinical

**Chairs:** Luc Thiberville (Rouen, France), Pallav L. Shah (London, United Kingdom)

**08:30 First procedure: confocal endoscopy**
Luc Thiberville (Rouen, France)

**09:00 Second procedure: transparenchymal nodule access (TPNA) for a single pulmonary nodule (SPN)**
Felix J.F. Herth (Heidelberg, Germany)

**09:30 Third procedure: staging with EBUS/EUS**
Jouke T. Annema (Amsterdam, Netherlands)

**10:00 Fourth procedure: local anaesthetic thoracoscopy**
Nick Maskell (Bristol (Avon), United Kingdom)

### 7.3N Session 373 08:30 - 10:30
#### Symposium: State of the art session: Respiratory critical care
Mechanical ventilation and beyond in acute and chronic respiratory failure
Aims: This session will provide state of the art information on topics that relate to the ventilatory and non-ventilatory management of patients with acute and chronic respiratory failure. Key topics include ventilatory and non-ventilatory management strategies in acute respiratory distress syndrome (ARDS) (particularly in terms of preventing ventilator-induced lung injury); weaning from mechanical ventilation (with particular focus on the importance of the timing of tracheostomy); the delivery of non-invasive respiratory support by non-invasive ventilation (NIV) and high-flow nasal cannula (HFNC) in acute hypoxemic and hypercapnic respiratory failure; and the non-invasive ventilatory modalities that are available for chronic obstructive pulmonary disease (COPD) patients at home, both when they are stable and after they have had an acute exacerbation with persistent hypercapnia.

Disease(s): Respiratory critical care
Method(s): Respiratory intensive care
Tag(s): Clinical
Target audience: Critical/Intensive care physician, Adult pulmonologist/Clinician

Chairs: Marcus Schultz (Amsterdam, Netherlands), Lígia Helena Pires Vicente (Portimão, Portugal)

08:30 Ventilatory and non-ventilatory strategies in ARDS
Laurent Brochard (Toronto (ON), Canada)

09:00 Strategies for weaning from mechanical ventilation
Leo M.A. Heunks (Amsterdam, Netherlands)

09:30 Non-invasive respiratory strategies in acute respiratory failure
Stefano Nava (Bologna (BO), Italy)

10:00 Non-invasive ventilatory strategies in stable COPD
Wolfram Windisch (Cologne, Germany)

Session 374 08:30 - 10:30

Symposium: Proteases: at the cutting edge of lung disease

Aims: to provide an update on the pathological roles of proteases in lung diseases. Protease deregulation is a constant feature in acute and chronic lung diseases. Until recently, proteases were thought to simply act as protein-degrading enzymes. However, recent ground-breaking research has identified a variety of novel protease substrates that play important roles in lung pathophysiology. These findings suggest that proteases are actually critical pleiotropic orchestrators of the cell behaviour that leads to lung diseases. The symposium will describe and integrate these novel protease research findings. The aim is to bring together leading researchers from different fields of lung disease research with the hope of fostering the exchange of knowledge between not only basic and clinical researchers but also within the lung community.

Disease(s): Airway diseases Interstitial lung diseases
Method(s): Cell and molecular biology
Tag(s): Translational
Target audience: Clinical researcher, Scientist (basic, translational), Paediatrician

Chairs: Jean-Michel Sallenave (Paris, France), Stephen M. Stick (Perth (WA), Australia)

08:30 The proteasome - an intracellular protease that is dysregulated in lung diseases
Silke Meiners (München, Germany)

09:00 Neutrophil elastase and lung damage in cystic fibrosis
Marcus Mall (Berlin, Germany)

09:30 Coagulation proteases and idiopathic pulmonary fibrosis - the dangerous liaison
Keren Borensztajn (Paris, France)

10:00 The role of cathepsin S in lung disease
Clifford Taggart (Belfast (Belfast), United Kingdom)

Session 375 08:30 - 10:30

Symposium: GINA 2018 and beyond: shaping the future of asthma management

Aims: (i) To understand how to integrate risk reduction strategies into personalised asthma care; (ii) to explore the new GINA (Global Initiative to Asthma) 2018 pocket guide for difficult-to-treat and severe asthma and to understand how a design thinking approach can enhance the utility of clinical resources; (iii) to learn about implementation strategies for asthma care, including in low- and middle-income countries; and (iv) to learn about future plans for GINA and to understand how to improve the design of asthma research studies.
### Symposium: Accelerated ageing in lungs

**The key to chronic lung disease and comorbidities**

**Aims:** to discuss recent advances in our understanding of the molecular processes that underlie accelerated ageing and cellular senescence and how these processes may lead to chronic lung diseases such as chronic obstructive pulmonary disease (COPD), idiopathic pulmonary fibrosis, and pulmonary hypertension and their comorbidities. Since the elderly population, which is prone to multi-morbidity, is increasing, these diseases will become more and more important for respiratory and general physicians, particularly the latter.

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<tr>
<td>08:30</td>
<td>A personalised approach to risk reduction in asthma in GINA</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<td>09:00</td>
<td>A new GINA resource in 2018: a practical guide for assessing and managing difficult-to-treat and severe asthma</td>
<td>Jerry Krishnan (Chicago, United States of America)</td>
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<tr>
<td>09:30</td>
<td>Hard talk: is GINA truly global? Successes and challenges</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>3547</td>
</tr>
<tr>
<td>10:00</td>
<td>GINA 2018 and beyond: the challenges of evidence-led innovation and leadership</td>
<td>Helen Reddel (Sydney (NSW), Australia)</td>
<td>3548</td>
</tr>
</tbody>
</table>

### Symposium: Prenatal origins of respiratory and atopic disorders

**Epidemiological and experimental evidence**

**Aims:** to educate the audience about the current state of knowledge concerning the early-life origins of respiratory and atopic disorders. The session will describe what we have learned from 1) epidemiological birth cohort studies: multiple approaches that can be used to strengthen causal inference with respect to prenatal exposures will be described, including Mendelian randomisation, gene-environment interactions, negative parental controls, sibling controls, twin studies and follow-up of children from prenatal intervention trials; 2) experimental studies in animals and humans: how animal models can complement epidemiology in the investigation of this topic will be discussed. The results from recent exciting trials on nutrient supplementation in pregnancy aimed at primary prevention of asthma will also be presented.

<table>
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<th>Time</th>
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<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>The science of ageing</td>
<td>Moises Eduardo Selman Lama (Mexico, Mexico)</td>
<td>3549</td>
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<tr>
<td>09:00</td>
<td>Accelerated ageing in COPD</td>
<td>Elizabeth Cordoba-Lanus (Santa Cruz De Tenerife, Spain)</td>
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<tr>
<td>09:30</td>
<td>Accelerated ageing in idiopathic pulmonary fibrosis and pulmonary hypertension</td>
<td>Serge Adnot (Creteil, France)</td>
<td>3551</td>
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<tr>
<td>10:00</td>
<td>Clinical implications and novel therapies</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
<td>3552</td>
</tr>
</tbody>
</table>
08:30 Using genetic epidemiology and existing trial cohorts to identify the prenatal causes of childhood respiratory and atopic disorders
Seif Shaheen (London, United Kingdom)

09:00 Using advanced family and twin designs to control for confounding of associations between prenatal risk factors and asthma
Catarina Almqvist Malmros (Stockholm, Sweden)

09:30 How animal models can complement epidemiology in furthering our understanding of the prenatal origins of respiratory disease
Susanne Krauss-Etschmann (Borstel, Germany)

10:00 Can nutrient supplementation in pregnancy prevent childhood asthma?
Hans Bisgaard (Hellerup, Denmark)

7.3B Session 378 08:30 - 10:30
Oral presentation: New perspectives on asthma, cough and laryngeal obstruction

Disease(s): Airway diseases
Method(s): Epidemiology  Physiology  General respiratory patient care  Endoscopy and interventional pulmonology
Chairs: Roberto A. Rabinovich (Edinburgh (Scotland), United Kingdom), Georgios Kahsakas (Athens, Greece)

OA3557 Late Breaking Abstract - Unsupervised machine learning of novel emphysema subtypes: SPIROMICS
R GRAHAM BARR (NEW YORK, United States of America), Jie Yang, Elsa Angelina, Pallavi Balte, Eric Hoffman, John Austin, Ben Smith, Eugene Bleecker, Russ Bowler, Chris Cooper, David Couper, Mark Dransfield, Meilan Han, Nadia Hansel, Fernando Martinez, Robert Paine, Prescott Woodruff, Victor Ortega, Andrew Laine

OA3558 Airway closure during metacholine challenge is correlated to body mass index
Roberto Torchio (Venaria Reale (TO), Italy), Laura Barrocu, Carlotta Biglia, Claudio Ciacco, Marco Guglielmo, Fabio Luigi Massimo Ricciardolo

OA3559 Role of leptin and cysteinyl leukotrienes in the pathogenesis of exercise-induced bronchoconstriction in obese asthmatic children
Marwa Moaaz (Alexandria, Egypt), Ibrahim El-Akkary, Nader Fasae, Mohamed El-Ghazali, Ola Elgaddar

OA3560 The Effect of Bronchial Thermoplasty on Lung Function in Severe Asthma Patients
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Julia N.S. D’Hooghe, Annelies M. Slats, Joost G. Van Den Aardweg, Jouke T. Annema, Peter I. Bonta

OA3561 Modulation of Transient Receptor Potential Vanilloid-1 (TRPV1) response by inhaled prostaglandin-E2 and bradykinin
Filippo Liviero (Padova (PD), Italy), Maria Cristina Scarpa, Paola Mason, Gabriella Guarnieri, Piero Maestrelli

OA3562 Predictors of manually assisted effectiveness over mechanically assisted cough in ALS patients
Santos Ferrer Espinosa (Valencia, Spain), Jesús Sancho Chinesta, Enric Burés Sales, Emilio Servera Pieras

OA3563 Objective quantification and analysis of laryngeal obstruction using deep learning algorithms
Emil S. Walsted (Frederiksberg, Denmark), Jianyu Lin, Daniel S. Elson, James H. Hull

OA3564 The ventilatory pattern and the operational volumes during exercise in subjects with diagnosed exercise-induced laryngeal obstruction (EIL0)
Antonella LoMauro (Milano (MI), Italy), Henrik Johansson, Andrei Malinovschi, Peter Frykholm, Elisabet Mallmin, Katarina Norlander, Andrea Aliverti, Leif Nordang

7.3Z2 Session 379 08:30 - 10:30
Oral presentation: Notable Studies in Asthma

Disease(s): Airway diseases
Method(s): Physiology  Imaging  Cell and molecular biology  General respiratory patient care
Chairs: Subhabrata Moitra (Barcelona, Spain), Paul O’Byrne (Hamilton (ON), Canada)

OA3565 Late Breaking Abstract - Airway sensory innervation is increased in chronic cough
Emily Blum (Portland, United States of America), Matthew Drake, Allison Fryer, David Jacoby, Richard Costello

OA3566 Late Breaking Abstract - Long-term safety & durability of mepolizumab in life-threatening/seriously debilitating severe eosinophilic asthma (SÉA): COSMEX
Frank Albers (Chapel Hill, United States of America), Sandhya Khurana, Eric Bradford, Martyn Gilson, Robert Price, Guy Brusselle, Elisabeth Bel, J Mark Fitzgerald, Matthew Masoli, Stephanie Korn, Marc Humbert
**Symposium: Microorganisms and lung ecology: living in peace with bugs**

**Aims:** To improve the understanding of (i) the subtle interactions between humans and microorganisms both within and outside the context of infections; (ii) how the respiratory immune system can move from homeostasis to dysbiosis; (iii) the roles that the interactions between humans and microorganisms play in the pathogenesis and natural history of pneumonia and chronic noncommunicable respiratory diseases; and (iv) the potential of treatments that modulate the microbiome.

**Disease(s):** Airway diseases, Respiratory infections

**Method(s):** Cell and molecular biology, Physiology, Transplantation

**Tag(s):** Translational

**Target audience:** Clinical researcher, Pathologist, Scientist (basic, translational), Adult pulmonologist/Clinician

**Chairs:** Anh Tuan Dinh-Xuan (Paris, France), Nicolas Roche (Paris, France)

**08:30**

**Host-microorganism interactions in lung homeostasis: the influence of age, microbes and the immune system**

James D. Chalmers (Dundee (Angus), United Kingdom)

**09:00**

**Dynamics of the human microbiome network**

Karoline Faust (Leuven, Belgium)

**09:30**

**Manipulating the microbiome to control human diseases**

Patricia Lepage (Jouy en Josas, France)

**10:00**

**Towards an ecology of the lung: new conceptual models of pulmonary microbiology and pneumonia pathogenesis**

Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

**Oral presentation: Biomarkers in COPD and asthma**

**Disease(s):** Airway diseases

**Method(s):** Physiology, Cell and molecular biology, Epidemiology, General respiratory patient care

**Chairs:** Stylianos Loukides (Athens, Greece), Andras Bikov (Budapest, Hungary)
Session 382: Oral presentation: New ideas about respiratory and sleep physiology in children

**Late Breaking Abstract - ENose based phenotyping of newly presented patients with asthma or COPD**
Rianne de Vries (Amsterdam, Netherlands), Yenneke W. F. Dagelet, Sigrid Kester, Johannes H. H. C. In ‘T Veen, Eric G. Haarman, Annelies Lucas, Frans H. C. De Jongh, Anke-Hilse Maitland-Van Der Zee, Peter J. Sterk

**U-BIOPRED accessible handprint: combining omics platforms to identify stable asthma subphenotypes**
Bertrand De Meulder (Vourles, France), Romain Tching Chi Yen, Chuan-Xing Li, Asa Wheelock, Kian Fan Chung, Ian Adcock, Ratiq Djukjanovic, Scott Wagers, John Riley, Veit Erpenbeck, Per Bakke, Massimo Caruso, Pascal Chanez, Sven-Erik Dahlén, Stephen Fowler, Ildiko Horvath, Norbert Krug, Paolo Montuschi, Marek Sanak, Thomas Sandström, Dominic Shaw, Florian Singer, Ioannis Pandis, Aruna Bansal, Peter Sterk, Frédéric Baribaud, Charles Auffray

**Ezrin, a membrane cytoskeleton cross linker protein, as a marker of epithelial damage in asthma**
Xin Yao (Nanjing (Jiangsu), China), Man Jia, Xiaoyi Yan, Xinyu Jiang, Jie Jiang, Xia Shan, Xiwei Zhang, Ian Adcock, Mao Huang

**Markers of systemic inflammation are associated with increased symptoms and respiratory exacerbations among smokers with preserved spirometry in SPIROMICS**
Stephanie Christenson (San Francisco, United States of America), Suresh Garudadri, Prescott G. Woodruff, Meilan K. Han, R. Graham Barr, Eugene Bleecker, Russell Bowler, Alejandro Comellas, Christopher B. Cooper, Gerard Criner, Mark Dransfield, Nadia N. Hansel, Robert Paine, Jerry A. Krishnan, Stephen Peters, Fernando Martinez, Jeff Curtis, Annette Hastie, Wanda O’Neal, David Couper, Neil E. Alexis

**Investigating the reproducibility of real time breath measurements using proton transfer reaction - time of flight - mass spectrometry for breath of volatile organic compounds in COPD Patients.**
Luke Bryant (Leicester (Leicestershire), United Kingdom), Liesl Carr, Ahmed Yousuf, Rebecca Cordell, Michael Wilde, Christopher Brightling, Paul Monks

**Association between exhaled volatile organic compounds and urinary levels of oral corticosteroids within the U-BIOPRED Cohort**
Paul Brinkman (Amsterdam, Netherlands), Waqar Ahmed, Cristina Gómez, Hugo H. Knobel, Hans Weda, Teunis J. Vink, Tamara M. Nijsen, Craig E. Wheelock, Sven-Erik Dahlén, Paolo Montuschi, Richard G. Knowles, Susanne J. Vijverberg, Anke H. Maitland-Van Der Zee, Peter J. Sterk, Stephen J. Fowler

**Temporal Fluctuations of Electronic Nose Signatures in Patients with Asthma and Healthy Controls Challenged With Rhinovirus**
Anirban Sinha (Amsterdam, Netherlands), Rianne De Vries, J W. F. Dagelet, Urs Frey, Rene Lutter, Anke-Hilse Maitland-Van Der Zee, Peter J. Sterk, Faculty of Medicine, University of Patras (Rion), Marina Lianou (pha2306@upnet.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Vassilios Papaleonidopoulos (papaleonv@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Georgia Giotopoulou (giotopoulou.g@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Katerina Kauka (katerinakauka2@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Ioanna Giopanou (giopanou@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Antonia Maračioti (amaracziotii@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Magda Spella (magsp@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rion), Sonia Santamaria, Mariapia Venuti, Annarita Depalo, Maria Cristina Colanardi, Maria Pia Foschino Barbaro

**Searching for inflammatory and oxidative-stress markers capable of clustering severe asthma.**
Giulia Scioscia (Lucera (FG), Italy), Giovanna Elisiana Carpagnano, Donato Lacedonia, Grazia Cotugno, Sonia Santamaria, Mariapia Venuti, Annarita Depalo, Maria Cristina Colanardi, Maria Pia Foschino Barbaro

**Glutathione s-transferase genotype determines lung function deficits from infancy to adulthood in those with in utero tobacco exposure**
Louisa Owens (Sydney (NSW), Australia), Ingrid Laing, Jasmina Murdzoska, Guiychang Zhang, Peter Lesouef

**Markers of systemic inflammation are associated with increased symptoms and respiratory exacerbations among smokers with preserved spirometry in SPIROMICS**
Stephanie Christenson (San Francisco, United States of America), Suresh Garudadri, Prescott G. Woodruff, Meilan K. Han, R. Graham Barr, Eugene Bleecker, Russell Bowler, Alejandro Comellas, Christopher B. Cooper, Gerard Criner, Mark Dransfield, Nadia N. Hansel, Robert Paine, Jerry A. Krishnan, Stephen Peters, Fernando Martinez, Jeff Curtis, Annette Hastie, Wanda O’Neal, David Couper, Neil E. Alexis

7.3M
Session 382
08:30 - 10:30

**Disease(s):** Sleep and breathing disorders

**Method(s):** Epidemiology, Public health, General respiratory patient care, Physiology

**Chairs:** Graham Hall (Perth (WA), Australia), Refika Hamutcu Ersu (Istanbul, Turkey)

**Late Breaking Abstract - Sensibility and specificity of the “SLEEP CLINICAL RECORD” Protocol in Brazilian children.**
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Camila Castro Correa, Melanie Evangelisti, Maria Pia Villa

**Glutathione s-transferase genotype determines lung function deficits from infancy to adulthood in those with in utero tobacco exposure**
Louisa Owens (Sydney (NSW), Australia), Ingrid Laing, Jasmina Murdzoska, Guiychang Zhang, Peter Lesouef
### Session 383 08:30 - 10:30

**Oral presentation: Acute pulmonary embolism: from diagnosis to treatment**

**Disease(s):** Pulmonary vascular diseases, Respiratory critical care

**Method(s):** Imaging, General respiratory patient care

**Chairs:** Philippe Girard (Paris, France), Luke Howard (London, United Kingdom)

**OA3593** Late Breaking Abstract - An evaluation of standard UK pulmonary rehabilitation post pulmonary embolism
Laura Moth (London, United Kingdom), Lynn McDonnell, Leyla Osman, Philip Marino, Gill Arbane, George Kaltsakas, Bashskar Mukherjee

**OA3594** Does simplified Well’s score combined with age-adjusted D-dimer reduce inappropriate CT pulmonary angiogram and incidence of contrast induced nephropathy?
Zeeshan Mustafa (Stoke-on-Trent (Staffordshire), United Kingdom), Asim Ahmed, Qandeel Khan, Shahbaz Piracha, Azam Saied, Mohammed Haris, Muhammad Iqbal, Badar Ganaie

**OA3595** An audit of requests for CT Pulmonary Angiogram in haemodynamically stable non-pregnant patients with suspected pulmonary embolism
Julian Cassar (Balzan, Malta), Joelle Azzopardi, Gabriel Degiorgio, Gabriel Borg, Paula Grech, Kyra Bartolo, Brendan Caruana Montaldo

**OA3596** A radiomics nomogram based on CT pulmonary angiographic data for predicting adverse outcomes in non-high-risk acute pulmonary embolism patients
Gang Hou (Shenyang (Liaoning), China), Xiaoming Zhou

**OA3597** The prognostic value of Red cell distribution width (RDW) in acute pulmonary thromboembolism
Samaneh Parsa (Tehran, Islamic Republic of Iran), Nasibeh Hosseinivand, Soheil Peiman

**OA3598** Determinants and prognostic impact of diagnostic delay in pulmonary embolism
Celine Goyard (Boulogne, France), Benoit Cote, Vincent Looting, Anne Roche, Jean Pastre, Jonathan Marey, Benjamin Planquette, Guyl Meyer, Olivier Sanchez

**OA3599** Prognostic role of respiratory failure in acute pulmonary embolism: a pulmonologist's point of view
Roberta Pancani (Pontedera (PI), Italy), Liliana Villari, Ferruccio Aquilini, Alessandro Celi, Antonio Palla

**OA3600** The evaluation of medication adherence in patients with pulmonary thromboembolism
Ilknur Basyigit (Kocaeli, Turkey), Serap Argun Baris, Tuba Ciftci, Serhat Ozgun, Hasim Boyaci

### Session 384 08:30 - 10:30

**Oral presentation: Paediatric respiratory infections: translational and clinical perspectives**

**Disease(s):** Respiratory infections, Respiratory infections

**Method(s):** Cell and molecular biology, General respiratory patient care, Epidemiology

**Chairs:** Ricardo Miguel Ribeiro Marques Cunha Fernandes (Lisboa, Portugal), Marijke Proesmans (Leuven, Belgium)
Late Breaking Abstract - Microsimulation model of future trends in CF burden and demography in France
Pierre-Régis Burgel (Sorbonne Paris Cité, France), Marc Massetti, Henri Leleu, Lydie Lemonnier, Brigitte Menoret-Calles, Michel Abely, Anne Farge, Isabelle Durieu

Microbiome Characteristics of Induced Sputum compared to Bronchial Fluid and Upper Airway Samples
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Adilia Warris, Shi-Qi An

Assessing polymicrobial interactions in a 3D primary airway epithelial cell model
Matthew Wee-Peng Poh (Subiaco (WA), Australia), Angela Fonceca, Anthony Kicic, Mark Everard

Interferon-stimulated gene expression differs in bronchiolitis caused by RSV-A strains NA1 and ON1
Alessandra Piersangeli (Rome, Italy), Carolina Scagnolari, Camilla Bitossi, Agnese Viscido, Antonella Frasantonio, Laura Petrarca, Raffaella Nenna, Fabio Midulla

Blood gas analysis as a marker of severity in acute bronchiolitis
Stefan Ünger (Edinburgh (Edinburgh), United Kingdom), Christopher Halliday, Ashkan Ziaie, Steve Cunningham

"Effects" of bronchiolitis on ventilation inhomogeneity (VI) at preschool age: comparison of Multiple Breath Washout (MBW) between post-bronchiolitis, cystic fibrosis and healthy children
Giulia Cangiano (Verona (VR), Italy), Riccardo Guarise, Antonella Borruso, Laura Menin, Gloria Tridello, Paolo Biban, Ciro D’Orazio, Fabio Midulla, Sonia Volpi

Infant bronchiolitis increases the risk of reduced lung function at age 10-13 years
Eero Lauthkonen (Tampere, Finland), Riikka Riikonen, Eero Lauthkonen, Sari Tömänen, Katri Backman, Petri Koponen, Merja Helminen, Kirsi Nuolivirta, Matti Korppi

Outcomes in protracted bacterial bronchitis (PBB): a five year prospective cohort study
Thomas Ruffles (Brisbane (QLD), Australia), Julie Marchant, Ian Masters, Helen Buntain, Greta Busch, John Upham, Danielle Wurzel, Stephanie Yerkovich, Peter Gibson, Katie Baines, Simpson Jodie, Susan Pizzutto, Sandra Hodge, Greg Hodge, Anne Chang

Poster discussion: Interdependence of COPD and comorbidities and the underlying mechanisms
Disease(s): Airway diseases, Thoracic oncology, Respiratory critical care
Method(s): Endoscopy and interventional pulmonology, Imaging, Epidemiology, General respiratory patient care
Chairs: Marjolein Brusse-Keizer (Enschede, Netherlands), Pierre-Régis Burgel (Sorbonne Paris Cité, France)

Comparative analysis of rhythm disturbances in patients with chronic obstructive pulmonary disease (COPD)
Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Aleksandra Balitskaya, Antonina Berdyugina, Valeriy Elykomov, Andrew Zateev

COPD in patients evaluated for stable myocardial ischemia – observational study
Viktor Hamrefors (Malmö, Sweden), Andreas Jonsson, Artur Fedorowski, Gunnar Engstrom, Per Wollmer

Remodeling of common carotid and common femoral arteries in COPD patients without previously diagnosed cardiovascular diseases (CVD)
Sergey Avdeev (Moscow, Russian Federation), Viliya Gaynitdinova, Natalya Tsareva, Zamira Merzheeva

The role of interleukin 6 on incident atrial fibrillation in COPD patients
Maxim Grynomprez (Diksmuide, Belgium), Vincent Vakaet, Maryam Kavousi, Bruno H. Stricker, M. Arfan Ikram, Jan J. Heeringa, Oscar H. Franco, Guy G. Brusselle, Lies Lahousse

Mechanisms of Cardiac arrhythmias in patients with chronic obstructive disease (COPD)
Jihen Ben Amar (Tunis, Tunisia), Asma Saidane, Haifa Zaibi, Manel Ben Halima, Sana Ouali, Mohamed Sami Mourali, Besma Dhaahri, Hichem Aouina

Association of phase angle and hypoxemia in ambulatory patients with chronic obstructive pulmonary disease and heart failure.

Chronic obstructive pulmonary disease and cardiac remodeling: gender aspect.
Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Aleksandra Balitskaya, Antonina Berdyugina, Valeriy Elykomov, Andrew Zateev
Prevalence of comorbidities in established and newly treated patients with COPD according to GOLD 2017 in a UK primary care population
David M. G. Halpin (Exeter Devon, United Kingdom), Hilda De Jong, Victoria Carter, Derek Skinner, David Price

Microvascular coronary perfusion and hyperinflation in COPD – data from the LEAD (Lung, hEart, sociAl, boDy) study
Matthias Urban (Wien, Austria), Marie Kathrin Breyer, Robab Breyer-Kohansal, Alina Ofenheimer, Sylvia Hartl, Otto Chris Burghuber

Impact of chronic obstructive pulmonary disease in hospitalized patients who undergo transcatheter aortic valve implantation
Alicia Oliva Ramos (Rivas-Vaciamadrid, Spain), Javier De Miguel Diez, Elena Rodríguez Jimeno, Alicia Cerezo Lajas, Laura Ramirez Garcia, Luis Puente Maesta, Ana López De Andrés, Valentin Hernández Barrera, Rodrigo Jiménez García

COPD in symptomatic aortic stenosis: the importance of correct assessment for defining prognosis
Marzia Rigolli (Oxford (Oxfordshire), United Kingdom), Andrea Rossi, Pier Luigi Temporelli, Giovanni Benfari, Giovanni Cioffi, Nicola Gaibazzi, Stefano Nistri, Federica Guidetti, Luigi Tavazzi, Saul Myerson, Mona Bafadhel, Pompilio Faggiano

Metabolic Syndrome negatively affects pulmonary function in COPD patients
Maria Rosaria Vulpi (Toritto (BA), Italy), Vito Liotino, Anna Castrovilli, Cosimo Tortorella, Giuseppina Piazzolla, Mafalda Candigliota, Onofrio Resta

Lung cancer screening in COPD patients.
Maria Pascarella (Basel, Switzerland), Desiree Schulman, Aline Stalder-Siebeneichler, Eleni Papakonstantinou, Corinne Giroy, Nora Oertli, Michael Tamn, Daiana Stolz

Lung Cancer Screening Programs: a missed “window” to diagnose Obstructive Lung Disease. The NLST-ACRIN experience.
Juan Pablo de Torres (Pamplona (Navarra), Spain), Juan Wisnivesky, David Wilson, Ciro Casanova, Jose Maria Marin, Victor Pinto Plata, Miguel Divo, Francesca Polverino, Carlos Cabrera, Javier Zulueta, Bartolome Celli, Gorka Bastarrika

Terminal 7
Session 386
08:30 - 10:30
Oral presentation: Muscle adaptations in response to physiotherapeutic interventions in acute and chronic settings

Disease(s) : Airway diseases, Respiratory critical care, Interstitial lung diseases
Method(s) : General respiratory patient care, Respiratory intensive care, Physiology, Cell and molecular biology

Chairs : Wendy Darlene Reid (Toronto ON, Canada), Heleen Demeyer (Leuven, Belgium)

Late Breaking Abstract - Carnosine and related compounds in m. vastus lateralis of COPD patients: preliminary results
Jana De Brandt (Diepenbeek, Belgium), Chris Burtin, Frank Vandenabeele, Joseph Aumann, Laura Blancquaert, Jan Stautemas, Wim Derave, Martijn Spruit

Early Neuromuscular Electrical Stimulation reduces muscle mass loss in Critically Ill patients.
Johan Segers (Leuven, Belgium), Daniel Langer, Noppawan Charsusun, Bregje Frickx, Inge Demeyere, Beatrix Clerckx, Greet Van Den Berghe, Ilse Vanhorebeek, Greet Hermans, Rik Gosselink

Effects of early passive cycling exercise on quadriceps femoris thickness in critically ill patients: a controlled randomized pilot study
Isabella Albuquerque (Santa Maria (RS), Brazil), Janice Soares, Dulciane Paiva, Dannuey Cardoso, Mauricio Ximenes Carvalho
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<th>Session 387</th>
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<td>Disease(s):</td>
<td>Airway diseases, Respiratory infections, Respiratory infections</td>
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<tr>
<td>Method(s):</td>
<td>Epidemiology, Physiology, Public health, General respiratory patient care</td>
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<tr>
<td>Chairs:</td>
<td>Martijn A. Spruit (Horn, Netherlands), Beatriz Abascal Bolado (Santander (Cantabria), Spain)</td>
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**Poster discussion: Additional latest insights in pulmonary rehabilitation for chronic lung diseases**

**PA3635**

**Fear-avoidance beliefs, exercise capacity, and activity-related dyspnea during pulmonary rehabilitation in patients with COPD**

- Thomas Janssens (Leuven, Belgium), Zora Van De Moortel, Wolfgang Gieidl, Klaus Pfeifer, Nikola Stenzel, Nicola Lehbort, Michael Wittman, Konrad Schultz, Andreas Von Leupoldt

**PA3636**

**Effect of a conical PEP-mask on dyspnea and exercise endurance in COPD patients: a randomized crossover trial**

- Chatchai Phimphasak (Khon Kaen, Thailand), Malipron Pukdeechat, David Jones, Chulee Ubolsakka-Jones

**PA3637**

**Characterization of motivation toward physical activity and sedentary behavior in patients admitted for a rehabilitation program**

- Guillaume Chevance (Lodeve, France), MéLissa Roux, Amandine Calvat, Julie Boiché, Nelly HéRaude

**PA3638**

**Bronchodilation or pulmonary rehabilitation: which test of exercise performance yields the greatest response for patients with stable COPD? An RCT.**

- Theresa Harvey-Dunstan (Leicester (Leicestershire), United Kingdom), Ruth M Tal-Singer, Mike I Polkey, Alan L Hamilton, Michael C Steiner, Michael D Morgan, Sally J Singh

**PA3639**

**Cardiovascular risk and exercise capacity in COPD**

- Yousef S Aldabayan (London, United Kingdom), Ahmed M Al Rajah, Abdelalah Aldhahir, Arthur Lemson, George Nava, Jeremy S Brown, John R Hurst

**PA3640**

**The COPD Assessment Test in patients with non-cystic fibrosis bronchiectasis undergoing pulmonary rehabilitation**

- Aaron Cole (Harefield, United Kingdom), Claire M Nolan, Ruth E Barker, Sarah E Jones, Suhani Patel, Samantha S-C Kon, William D-C Man

**PA3641**

**Prevalence of physical limitation in COPD: the short physical performance battery (SPPB)**

- Victoria Benson (Uxbridge (Middlesex), United Kingdom), Divya Mohan, Matthew Allinder, Nicholas Galwey, Carmel Menciery, Jonathan Fuld, Charlotte Bolton, William Macnee, John Cockcroft, Ian Wilkinson, Ruth Tal-Singer, Michael Polkey

**PA3642**

**Impact of Physical Frailty on Pulmonary Rehabilitation and Hospitalisation in COPD**

- Kola Akinlabi (London, United Kingdom), Binny Patel, Ken Johnston, Bunmi Adebajo, Radoslav Trojan, Ahmed Alrajeh, Temitayo Magbagbeola, John R Hurst

**PA3643**

**Impact of mild cognitive impairment on health benefits 6 months after a rehabilitation program**

- Francois Alexandre (Lodeve, France), Thomas Henry, Laurene Charbonnel, Florence Dupuy, Philippe Guerin, Guillaume Chevance, Nelly Heraud

**PA3644**

**Online coaching for physical activity in COPD patients: user engagement and determinants**

- Rita Priori (Eindhoven, Netherlands), Privender Saini, Marian Dekker, Lennke Van Genugten, Mareike Klee

**PA3645**

**High flow nasal cannula during walking in severe COPD patients: a randomized controlled trial.**

- Veronica Rossi (Pavia (PV), Italy), Serena Cirio, Manuela Piran, Giuditta Bettinelli, Laura Zocchi, Piero Ceriana, Annalisa Carlucci
**Session 388**  
**08:30 - 10:30**

**Poster discussion: CTD-ILD and hypersensitivity pneumonitis: from the bench to the bedside**

- **Disease(s):** Interstitial lung diseases | Airway diseases
- **Method(s):** Epidemiology | Physiology | Cell and molecular biology | General respiratory patient care | Endoscopy and interventional pulmonology | Imaging
- **Chairs:** Elena Bargagli (Firenze (FI), Italy), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

### PA3647
**Relationship of the COTE index with pulmonary rehabilitation outcomes**

Angela Burge (Prahran, Australia), Christine McDonald, Ajay Mahal, Catherine Hill, Annemarie Lee, Narelle Cox, Rosemary Moore, Caroline Nicolson, Paul O'Halloran, Aroub Lahham, Rebecca Gillies, Anne Holland

### PA3648
**Suitable questionnaires to measure quality of life in patients with asthma bronchial undergoing pulmonary rehabilitation**

Larissa Schwarzkopf (Neuherberg, Germany), Boglárka Szentes, Nicola Lehbert, Michael Wittmann, Rupert Wagner, Dennis Nowak, Hermann Faller, Michael Schuler, Konrad Schultz

### PA3649
**Changes in cognitive function of cognitively impaired patients with COPD after Pulmonary Rehabilitation and 1-year follow-up**

Vasileios Andrianopoulos (Schönau am Königssee, Germany), Rainer Gloeckl, Tessa Scheeberger, Nadine Troeller, Ioannis Vogiatzis, Rembert Koczulla, Klaus Kenn

### PA3650
**Clustering of patients with end-stage chronic diseases by symptoms: a new approach to identify health needs.**

Panaotis Finamore (Roma (RM), Italy), Martijn Spruit, Jos Schols, Raffaele Antonelli Incalzi, Emiel Wouters, Daisy Janssen

### PA3651
**Spot Marching Exercise for home-based pulmonary rehabilitation in COPD: physical performance and quality of life**

Chulee Jones (Khon Kaen, Thailand), Chatchai Phimphasak, Maliporn Pukdeechat, David Jones

### PA3652
**Predictors of daily physical activity in COPD patients undergoing pulmonary rehabilitation**

Georgios Kalttsakas (Athens, Greece), Maroula Vasilopoulou, Zafeiris Louvaris, Nikolaos Chynkiamis, Stavroula Spetsioli, Eleni Kortianou, Sofia-Antiopi Gennimata, Anastasios Palamidas, Andriana I. Papaioannou, Nickolaos G. Koulouris, Ioannis Vogiatzis

### PA3653
**Responsiveness of the EQ-5D to Pulmonary Rehabilitation (PR)**

Laura Moth (London, United Kingdom), Lauren Hogg, Lynn Mcdonnell, Leyla Osman

### PA3654
**Late Breaking Abstract - SMOKING PREVALENCE AND CHARACTERIZATION OF PATIENTS AT DIAGNOSIS OF DIFFUSE INTERSTITIAL LUNG DISEASES**


### PA3655
**LSC - 2018 - Physical and biochemical interactions drive fibrocytes accumulation in the scleroderma lung matrix**

Huanxing Sun (New Haven, United States of America), Julia Winkler (julia.winkler@yale.edu / Yale University,New Haven), Maksym Minasyan (maksym.minasyan@yale.edu / Yale University,New Haven), Hongyi Pan (hongyi.pan@yale.edu / Yale University,New Haven), Omkar Desai (omkar.desai@yale.edu / Yale University,New Haven), Amanda Pellowe (amanda.pellowe@yale.edu / Yale University,New Haven), Jia Li (jia.li@2875@yale.edu / Shanghai Jiao Tong University,Shanghai), Xueyan Peng (xueyan.peng@yale.edu / Yale University,New Haven), Anjelica Gonzalez (anjelica.gonzalez@yale.edu / Yale University,New Haven), Erica Herzog (Erica.Herzog@yale.edu / Yale University,New Haven)

### PA3656
**Confocal Laser Endomicroscopy (CLE) for Differentiating the Underlying Cause of Ground Glass Opacities in ILD Patients**

Lizzy Wijmans (Amsterdam, Netherlands), Daniel De Bruin, Joris Roelofs, Inge Van Den Berk, Rene Jonkers, Peter Bonta, Venerino Poletti, Jouke Annema

### PA3657
**Nintedanib inhibits contractile activity of lung myofibroblasts in a cellular model of scleroderma associated pulmonary fibrosis**

Galina Bogatkevich (Charleston, United States of America), Iliia Atanelishvili, Tanjina Akter, Lutz Wollin, Richard M Silver

### PA3658
**Significance of pulmonary involvement in systemic sclerosis (SSc) – data from the German SSc-network**

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<td>Amy Olson (Denver, United States of America), Toby Maher, Margaret Salisbury, Valentia Acciai, Baher Mourni, Manuel Quaresma, Leila Zouad-Lejour, Christopher Wells, Aryeh Fischer</td>
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<td>PA3659</td>
<td>Incidence, comorbidity and survival rate of hypersensitivity pneumonitis: A population-based study</td>
<td>Anne Hald Rittig (Århus N, Denmark), Ole Hilberg, Anders Løkke</td>
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<td>Federica Meloni (Pavia (PV), Italy), Monica Morosini , Veronica Codullo, Vanessa Frangipane, Sara Magni, Helios Recalde, Simona Inghilleri, Giuditta Comolli, Emanuela Cova, Carlomaurizio Montecucco, Miriam Colombo , Davide Prosperi</td>
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<td>Yang Li (, China), Susanna Kinting, Stefanie Hoeppner, Matthias Griese</td>
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<td>A retrospective clinical review of drug induced interstitial lung disease at a tertiary cancer centre</td>
<td>Fiona Walker (Manchester (Greater Manchester), United Kingdom), Rachel Broadbent, Ben Taylor , Sean Tenant, Kim Linton</td>
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<td>Prognostic factors in Korean patients with chronic hypersensitivity pneumonitis</td>
<td>Yeon Joo Kim (Seoul, Republic of Korea), Jooae Choe, Eun Jin Chae, Joon Seon Song, Dong Soon Kim, Jin Woo Song</td>
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<td>PA3665</td>
<td>Effect of genotype on hypersensitivity pneumonitis despite treatment.</td>
<td>Martina Sterclova (Praha, Czech Republic), Martin PetTEK, Amit Kishore, Jelena Skibova, Martina Vasakova</td>
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<td>Anti-CTGF antibody attenuates silica-induced lung fibrosis in rats</td>
<td>Kenneth Lipson (San Francisco, United States of America), Xiqing Cui, Zhe Peng, Yun Zhou, Hai Zhang, Yuewei Liu</td>
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<td>PA3667</td>
<td>Impact of a specialist respiratory pharmacist in the management of interstitial lung disease</td>
<td>Mariam Naqvi (London, United Kingdom), Grainne D'Ancona, Alex West</td>
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<td>A case series study on re-treatment to lung cancer after drug-induced interstitial lung disease</td>
<td>Satoru Terada (Tenri Nara, Japan), Takashi Hajirot, Hitakata Yutani, Masakuni Ueyama, Tomoko Nakanishi, Nobuyoshi Hamao, Takashi Inao, Yusuke Kaji, Takehiro Yasuda, Seisyu Hashimoto, Eisaku Tanaka, Yoshio Taguchi</td>
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<td>Impact Prognostic impact of comorbidities in patients with chronic Hypersensitivity Pneumonitis</td>
<td>Julia Walscher (Heidelberg, Germany), Benjamin Gross, Jacques Bruhwylter, Julie Morisset, Claus Peter Heussel, Felix Lasitschka, Felixj.F. Herth, Michael Kreuter</td>
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<td>PA3670</td>
<td>Quality of life of the patients followed for diffuse interstitial pneumonitis with fibrosis</td>
<td>elhamdaoui lamyae (casablanca, Morocco), Jabri Hasna, Elkhattabi Wi'am, Afif Hicham</td>
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7.2C  Session 389  08:30 - 10:30

Poster discussion: Drug-resistant tuberculosis

**Disease(s):** Respiratory infections  Respiratory critical care  Respiratory infections

**Method(s):** Surgery  Cell and molecular biology  Respiratory intensive care  Epidemiology  General respiratory patient care  Public health

**Chairs:** Giovanni Battista Migliori (Varese (VA), Italy), Gunar Günther (Windhoek, Namibia)

**Outcomes of 6-9-12 months’ bedaquiline-containing regimens in MDR/XDR TB after 24 months follow up**

**Outcomes of drug-resistant TB cases undergoing bedaquiline (BQ)-treatment and adjunctive surgery**

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<td>Outcomes of 6-9-12 months’ bedaquiline-containing regimens in MDR/XDR TB after 24 months follow up</td>
<td>Sergey Evgenievich Borisov (Moscow, Russian Federation), Alexey Filippov, Taysya Ivanushkina, Diana Ivanova, Yuliya Garmash</td>
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Experience of treatment Pre-XDR and XDR-TB/HIV co-infection with bedaquiline and delamanid containing regimens in Georgia
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Natalia Bolokadze, Nino Kiria, Lali Mikiashvili

Mariya Pavlova (St. Petersburg, Russian Federation), Irina Chermonkhaeva, Anna Starshinova, Nadezhda Sapozhnikova, Liudmila Archakova, Evgenia Istomina, Elena Ershova

DISCREPANCY ACROSS PHENOTYPIC AND GENOTYPIC RESULTS OF DRUG SUSCEPTIBILITY TESTING OF MYCOBACTERIUM TUBERCULOSIS
Valeriu Crudu (Chisinau, Republic of Moldova), Sofia Alexandru, Alexandru Codreanu, Nelly Ciobanu, Dumitru Chesov, Valentina Vile, Ana Donica, Elena Romancenco, Ecaterina Noroc, Nadejda Turcan, Christoph Lange

Genotypic and phenotypic drug resistance of M.tuberculosis in patients registered in Moscow, Russia
Evgeny Belilovskiy (Moscow, Russian Federation), Maria Krasanova, Anastasiia Khakhalina, Sergey Borisov, Svetlina Safonova, Elena Nosova

Risk factors associated with MDR-TB deaths in Romania - 6 years retrospective study
Ramona Elena Nedelcu (Bucuresti, Romania), Adriana Socaci

Molecular analysis of mutations in genes associated with multidrug-resistance in Mycobacterium tuberculosis isolates from patients with tuberculosis in Moscow region, Russia
Maria Alvarez Figueroa (Pushkino (Moscow Oblast), Russian Federation), Ruslan Ludannyy, Sergey Popov, Igor Mokrousov, Anna Vyazovaya, German Shipulin

Early experience with the implementation of the WHO shorter MDR-TB treatment regimen in Singapore
Hoi Wah She (Singapore, Singapore), Yee Tang Wang, Suay Hong Gan, Angeline Poh Gek Chua, Cynthia Bee Eng Chee

Bacteriological conversion in XDR-TB and RR-TB patients with fluoroquinolone resistance treated with and without new and repurposed anti-TB drugs in Azerbaijan prisons
Alan Altraja (Tartu, Estonia), Elmira Gurbanova, Rafail Mehdiyev, Kai Blöndal

Rising trend of drug resistance among extra pulmonary TB in Northern India
Surya Kant (Lucknow (Uttar Pradesh), India), Anand Kumar Maurya, Vijaya Lakshmi Nag, Jyoti Bajpai

The first experience of therapeutic dendritic cells vaccine administration in patients with extensively drug resistant lung tuberculosis
Anna Starshinova (St. Petersburg, Russian Federation), Michail Filatov, Michail Nazarenko, Vladimir Burdakov, Sergey Landa, Evgenia Istomina, Galina Marfina, Piotr Yablonskiy

Extensively drug-resistant tuberculosis in the penitentiary facilities of the Russian Federation
Larisa Rusakova (Moscow, Russian Federation), Sergey Sterlikov, Sergey Ponomarev

Knowledge and attitudes of chest physicians regarding screening of household contacts of MDR TB patients & infection control.
Jai Mullerpattan (Mumbai (Maharashtra), India), Zarir Udawdia, Shashank Ganatra, Husain Poonawala, Girija Kishore

Metabolism of connective tissue in multidrug-resistant pulmonary tuberculosis
Iryna Ovcharenko (Kharkiv, Ukraine), Olga Shevchenko, Olga Pogorelova, Sergey Ovcharenko

Current approaches to formulate evidence-based recommendations: a case study of WHO drug-resistant tuberculosis treatment guidance
Dennis Falzon (Geneva, Switzerland), Nathan Ford, Ernesto Jaramillo, Payam Nahid, Pete Cegielski, Holger Schunemann, Jan Brozek, Karin Weyer

Isoniazid resistance is associated with delayed culture conversion during anti-tuberculosis treatment among patients with pulmonary tuberculosis
Chaek Chung (Daejeon, Republic of Korea), Ju Ock Kim, Sung-Soo Jung, Jinsook Lim, Ki Man Lee, Kyeong Seob Shin, Jong Hyock Park, Jinsoo Min

Poster discussion: Asthma analysis
Disease(s): Airway diseases, Respiratory critical care, Respiratory infections
Method(s): Imaging, Cell and molecular biology, Public health, Endoscopy and interventional pulmonology, Physiology, Epidemiology, General respiratory patient care
Chairs: Kamal Maurice Hanna (Cairo, Egypt), Christophe Leroyer (Brest, France)
PA3688  Occupational asthma : still an underdiagnosed disease
Imene MAGROUN BEN SALAH (Ariana, Tunisia), Saloua Ismail, Emna Baraketi, Ines Aissa, Abir Ayadi, Hager Ghannouchi, Sonia Fehr, Samya Jamoussi, Habib Nouaigui

PA3689  The effect of Corticophobia on Inhaled Corticosteroid Treatment Compliance In Adults with Asthma
Halil Ibrahim Yakar (Istanbul, Turkey), Erkan Ceylan, Asiye Kanbay

PA3690  Evolution of asthma in relation to the bronchial inflammatory phenotype: a follow-up study
Mikel Sarasate Azkona (Barcelona, Spain), Cayetano Diaz Chantar, Christian Romero, Marian Ramon, Iñigo Ojanguren, Xavier Muñoz, M Jesus Cruz

PA3691  Obesity-associated asthma – what about weight loss surgery?
Lilia Maia Santos (Cobrã, Portugal), Bárbara Ramos, Cláudia Chaves Loureiro

PA3692  Characterising the Adult Obese-Difficult Asthma Phenotype within the WATCH cohort
Anna Freeman (Southampton, United Kingdom), Adnan Azim, Matt A E Harvey, Heena M Mistry, Hans Michael Haithch, Colin Newell, Tom M Wilkinson, Judit Varkonyi-Sepp, Frances Mitchell, Ramesh J Kurukulaaratchy

PA3693  Assessment of nutritional status in Tunisian asthmatic patients
Hager Kchouk (Tunis, Tunisia), Haifa Zaibi, Dorra Karray, Jihen Ben Ammar, Mohamed Ali Baccar, Saloua Azzabi, Besma Dhaahri, Hichem Aouina

PA3694  The usefulness of the impulse oscillometry for predicting the treatment outcomes of bronchial thermoplasty in patients with severe asthma.
Akiko Sano (Osaka, Japan), Hiroyuki Sano, Takashi Endo, Yoichi Nakamura, Takao Miyoshi, Miho Akaza, Tetsuo Sasaki, Yasunari Miyazaki, Naohiko Inase, Yuki Sumi

PA3695  Cluster analysis of cough variant asthma using exhaled value of forced oscillation technique.
Fumika Koike (Kanagawa, Japan), Yoshihiko Otani, Yuki Oyama, Wakaba Furuie, Junji Endo, Yoichi Nakamura, Takao Miyoshi, Miho Akaza, Tetsuo Sasaki, Yasunari Miyazaki, Naohiko Inase, Yuki Sumi

PA3696  The volume fraction of extracellular matrix within the airway smooth muscle layer is related to fixed airflow obstruction in asthma
John Elliot (Perth (WA), Australia), Alvenia Cairncross, Peter Noble, Alan James

PA3697  Distinct impact of abdominal visceral adiposity on adult asthma symptoms
Houman Goudarzi (Sapporo, Japan), Satoshi Konno, Hirokazu Kimura, Hiroki Makita, Munehiro Matsumoto, Nozomu Takei, Hiroki Kimura, Kaoruko Shimizu, Masaru Suzuki, Yoichi Ito, Masaharu Nishimura

PA3698  Time course relationships of Type 1 and 2 inflammatory and innate immune pathways during Human Rhinovirus (HRV) infection in subjects with asthma
Alex Mann (London, United Kingdom), Alex Mann, Michael A Ghebre, Alan Bell, Clare Connolly, Catherine Boge, Ian Pavord, Mona Bafadhel

PA3699  Identification of pulmonary treatable traits in a real-life setting
Jodie Simpson (New Lambton, Australia), Rahul Shrimanker, Samantha Thulborn, Jennifer Cane, Richard Russell, Clare Connolly, Catherine Boge, Ian Pavord, Mona Bafadhel

PA3700  Particularities of Respiratory functional exploration in obese asthmatic patients
Ines Laouini (Nabeul, Tunisia), Haifa Zaibi, Jihen Ben Ammar, Sarra Mazaoui, Dorra Karray, Med Ali Baccar, Salwa Azzebi, Besma Dhaahri, Hichem Aouina

PA3701  Bronchial provocation test and military aptitude
Amani Ben Mansour (Tunis, Tunisia), Salsabil Daboussi, Samira Mhamdi, Zied Moetemri, Chiraz Aichaouia, Islam Mejri, Mohsen Khafrnaoui, Rzeig Cheikh

PA3702  Longitudinal association between adiposity and wheezing and atopy at 22 years: The 1993 Pelotas Birth Cohort, Brazil.
Paula Duarte de Oliveira (Pelotas (RS), Brazil), Ana Maria Baptista Menezes, Cauane Blumenberg, Efrain Sanchez-Angarita, Ignacio Zabert, Glória Izabel Niño-Cruz, Janaina Calu Costa, Luiza Isnardi Cardoso Ricardo, Rafaela Costa Martins, Fernando César Wehrmeister

PA3703  The Correlation between Asthma Control and Total Rescue Asthma Medication Purchases.
Dekel Shlomi (Petach Tikva, Israel), Bernice Oberman, Irit Katz

PA3704  Evolution of severe asthma during pregnancy
Samia Rached (São Paulo (SP), Brazil), Renato Lima, Blenda Endlich, Gilmar Osmundo Junior, Rossana Francisco, Rodrigo Athanazio, Frederico Fernandes, Alberto Cukier, Rafael Stelmach, Regina Pinto
| PA3705 | LSC - 2018 - AKT1/AKT2 mRNA Balance Is Significantly Different In IPF BAL Cells Compared To Other Fibrotic ILDs. | Eliza Tsitoura (Heraklion (Crete), Greece), Eleni Bibaki (bibakieleni@gmail.com / Department of Thoracic Medicine, Intersitial Lung Disease Unit, University Hospital,Heraklion), Eirini Vasarmidi (eirvasar@gmail.com / Department of Thoracic Medicine, Intersitial Lung Disease Unit, University Hospital,Heraklion), Chara Koutoulaki (xa-ra18@gmail.com / Laboratory of Molecular and Cellular Pulmonology, Medical School, University of Crete,Heraklion), George A. Margaritopoulos (gmargaritop@yahoo.gr / Intersstitial Lung Disease Unit, Royal Brompton Hospital, Imperial College,London), Konstantinos Karagiannis (k.karagiannis@med.uoc.gr / Department of Thoracic Medicine, Intersstitial Lung Disease Unit, University Hospital,Heraklion), Athanasia Proklou (proklath@gmail.com / Department of Thoracic Medicine, Intersstitial Lung Disease Unit, University Hospital,Heraklion), Athina Trachalaki (atrachalaki@gmail.com / Department of Thoracic Medicine, Intersstitial Lung Disease Unit, University Hospital,Heraklion), Despoina Moraitaki (mroitaki@med.uoc.gr / Department of Thoracic Medicine, Intersstitial Lung Disease Unit, University Hospital,Heraklion), Athol U. Wells (rbhild@rbht.nhs.uk / Intersstitial Lung Disease Unit, Royal Brompton Hospital, Imperial College,London), Katerina M. Antoniou (kantoniou@med.uoc.gr / Department of Thoracic Medicine, Intersstitial Lung Disease Unit, University Hospital,Heraklion) |
| PA3706 | LSC - 2018 - Azithromycin reduces aSMA and leads to vacuolar formation in lung fibroblasts | Ronja Schliep (Hannover, Germany), Kristina Krempaska (kristina.krempaska@dbmr.unibe.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Sandra Barnowski (sandra.barnowski@dbmr.unibe.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Andrea Stokes (Andrea.Stokes@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Thomas Geiser (Thomas.Geiser@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Lars Knudsen (knudsen.lars@mh-hannover.de / Functional and Applied Anatomy Medical School Hannover,Hannover), Manuela Funke-Chambour (Manuela.Funke-Chambour@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) |
| PA3707 | Mesenchymal stem cells reduce ER stress via PERK-Nrf2 pathway in aged mouse model | EUN JOO LEE (Seoul, Republic of Korea), Nayra CáRedenes, Diana ÁLvarez , Jacobo SellaréS, John Sembrat, Paola Aranda, Yating Peng, Jordan Bullock, Seyed Mehdi Nouraie, Ana L Mora, Mauricio Rojas |
| PA3708 | Role of serum AGE/RAGEs in the differential diagnosis of pulmonary fibrosis | Carlos Machahua (Hospitalita de Llobregat (Barcelona), Spain), Ana Montes-Worboys, Lurdes Planas-Cerezales, Raquel Buendia-Flores, Maria Molina-Molina, Vanesa Vicens-Zygmont |
| PA3709 | 17(R)-resolvindD1 mediates a pathway involving the transcription factor c-Fos to reduce bleomycin-induced pulmonary fibrosis in mice. | masakiyo yatomi (maebashi, Japan), Takeshi Hisada, Yoshimasa Hachisu, Yusuke Tsukagoshi, Norimitsu Kasahara, Makiko Sato, Hiroaki Tsurumaki, Haruka Saito, Kenichiro Hara, Yasuhiko Koga, Noriaki Sunaga, Toshitaka Maeno, Kunio Dobashi |
| PA3710 | Promotion of pulmonary fibroblast migration by bile acid receptor through activation of TGF-ß1/p-Smad3 signaling pathway | Handong Jiang (Shanghai, China), Xueqing Liu, Fang Fang Wang |
| PA3711 | MUC5B is expressed by bronchoalveolar epithelia and is associated with ER stress in idiopathic pulmonary fibrosis and rheumatoid arthritis associated interstitial lung disease | Joyce Lee (Cherry Hills Village, United States of America), Evgenia Dobrinskikh, Alani Estrella, Alex Schulick, Ivana Yang, Paul Wolters, David Schwartz |
| PA3712 | Peripheral oxidative burst correlates with VEGF serum levels in IPF: modulation by anti-fibrotic treatments | Marialuisa Bocchino (Napoli (NA), Italy), Serena Zanotta, Gaetano Rea, Giorgio Emanuele Polistina, Antonietta Coppola, Domenico Galati |
| PA3713 | Upregulation of Retinoic Acid-Related Orphan Receptor-alpha (RORA) in IPF; a promising therapeutic target | Eliza Tsitoura (Heraklion (Crete), Greece), Eleni Bibaki, Anastasios Koutsopoulos, Eleni Lagoudaki, Katerina Karagianni, Nikos Tzanakis, Bruno Crestani, Katerina Antoniou |
| PA3714 | Identification of Cell Populations with Increase Expression of Markers of Cell Senescence in Explanted IPF Lungs | Mauricio Rojas (Pittsburgh, United States of America), Nina Morse, Tracy Tabib, John Sembrat, Kristina Buschur, Humberto Trejo, Tamara Cruz, Lan Tu, Kevin Gibson, Wei Chen, Takis Benos, Ana Mora, Robert Lafyatis |
Effect of in vivo blockade of the KCa3.1 ion channel on type II alveolar epithelial cell turnover in pulmonary fibrosis
K. Udari Eshani Perera (Melbourne (VIC), Australia), Louise Organ, Habtamu Biyazen Derseh, Sasika Nimanthi Dewage, Andrew Stent, Ken Snibson

The potential use of immunomodulatory peptides from Brazilian scorpion Tityus obscurus as pharmacological therapy for Idiopathic Pulmonary Fibrosis
Karina Smidt Simon (Brasilia (DF), Brazil), Cesar Melo-Silva, Paulo Veloso-Junior, Verónica Amado, Florêncio Cavalcante-Neto, Anamélia Bocca

TIF1? has a protective role in pulmonary fibrosis
Pierre-Marie Boutanquoi (Dijon, France), Guillaume Beltramo, Olivier Burgy, Pierre-Simon Bellaye, Lucile Donnaine, Arnaud Maillieux, Bruno Crestani, Carmen Garrido, Françoise Goirand, Philippe Bonniaud

The efficacy of Phoenix dactylifera L. sap for the treatment of lung injury in a murine model of pulmonary fibrosis
Sana BAHR (Tunis, Tunisia), Raed Abdennabi, Ridha Ben Ali, Mona Milka, Neji Gharsallah, Khadija Ayed, Saloua Jameleddine

Let7c and AKT1/AKT2 mRNA balance is different In IPF BAL cells compared to other fibrotic ILDs.
Eliza Tsioura (Heraklion (Crete), Greece), Eleni Bibaki, Eirini Vasarmidi, Athina Trachalaki, Chara Koutoulaki, George A. Margaritopoulos, Konstantinos Karagiannis, Athanasia Prokliou, Despoina Moraitaki, Nikos Tzanakis, Athol U. Wells, Katerina M. Antoniou

The profibrotic role of downregulated Na,K-ATPase ß1 subunit in alveolar epithelium cells in lung fibrosis
Biyun Li (Beijing, China), Xiaoxi Huang, Xuefeng Xu, Wen Ning, China-Japan Friendship Hospital Dai

Metformin attenuates bleomycin-induced pulmonary fibrosis in mice via IGF-1 suppression
huijuan xiao (Beijing, China), Xiaoxi Huang, Shiyao Wang, Jing Geng, Dingyuan Jiang, Huaping Dai

Plasma mitochondrial DNA as a biomarker of disease progression in idiopathic pulmonary fibrosis
Hee-young Yoon (Seoul, Republic of Korea), Hak-Su Kim, Kwang Min Lee, Kwanghun Choi, Dong Soon Kim, Jin Woo Song

No Room

Game Zone: GAME ZONE - SESSION 5

Ultrasound
Rahul Bhatnagar (Bristol, United Kingdom), Michelle Andrea Espinoza Solano (Sevilla, Spain), Jayne Holme (Altrincham (Cheshire), United Kingdom)

Interventional bronchoscopy
Sofia Romani (Roma (RM), Italy)

Session: Pulmonary endoscopy
Interstitial lung and obstructive diseases
Aims: Interstitial lung diseases and obstructive lung diseases constitute a significant part of the workload of pulmonologists. Cryobiopsy is increasingly being used to diagnose these diseases and will be discussed. Endoscopy is a therapeutic option for patients with obstructive lung disease. The techniques that will be demonstrated in this session are the insertion of valves or coils, thermoplasty and cryobiopsy.

Disease(s): Thoracic oncology

Tag(s): Clinical

Chairs: Samy Lachkar (Rouen Cedex, France), Daniela Gompelmann (Heidelberg, Germany)

10:45 First procedure: emphysema and valves
Ralf Eberhardt (Heidelberg, Germany)

11:15 Second procedure: emphysema and coils
Dirk-Jan Slebos (Groningen, Netherlands)

11:45 Third procedure: asthma and thermoplasty
Pascal Chanez (Marseille, France)

12:15 Fourth procedure: cryobiopsy
Venerino Poletti (Forli, Italy)
Session 399  10:45 - 12:45

Year in review: Scientific Year in Review
Lung cancer development and response to treatment: the role of chronic lung inflammation and the microbiome

**Aims:** To present and discuss the role of inflammation and microbial composition in the development of lung cancer and its response to treatment.

**Disease(s):** Airway diseases, Thoracic oncology

**Method(s):** Cell and molecular biology

**Tag(s):** Translational

**Target audience:** Clinical researcher, Pathologist, Scientist (basic, translational), Thoracic oncologist, Adult pulmonologist/Clinician

**Chairs:** Silke Meiners (München, Germany), Joachim G.J.V. Aerts (Rotterdam, Netherlands)

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<td>Determinants of lung cancer evolution: immune escape and inflammation</td>
<td>Sam Janes (London, United Kingdom)</td>
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<tr>
<td>11:15</td>
<td>The microbiome, cancer development and response to therapy</td>
<td>Leopoldo N. Segal (New York</td>
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<td>New York, NY, United States of America</td>
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<tr>
<td>11:45</td>
<td>The link between inflammation and cancer</td>
<td>Georgios Stathopoulos (München, Germany)</td>
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<tr>
<td>12:15</td>
<td>The link between inflammation and lung cancer: lessons from chronic</td>
<td>Esther Barreiro Portela (Barcelona, Spain)</td>
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Session 400  10:45 - 12:45

Symposium: It's my favourite cell that affects your asthma
Asthma phenotyping and endotyping

**Aims:** To provide an overview of how mast cells, eosinophils, neutrophils, innate lymphoid cells and airway epithelial cells contribute to the clinical manifestations of asthma. The possible mechanisms by which these cells affect smooth muscle function and bronchial hyper-responsiveness will be discussed along with the therapeutic implications of these novel insights.

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, General respiratory patient care

**Tag(s):** Translational

**Target audience:** Clinical researcher, General practitioner, Scientist (basic, translational)

**Chairs:** Guy Brusselle (Ghent, Belgium), Pieter S. Hiemstra (Leiden, Netherlands)

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<th>Speaker</th>
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<tr>
<td>10:45</td>
<td>Role of mast cells in asthma and bronchoconstriction</td>
<td>Hans Jürgen Heinrich Hoffmann (Århus, Denmark)</td>
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<td>11:15</td>
<td>Role of eosinophils in asthma and bronchoconstriction</td>
<td>Florence Schleich (Liège, Belgium)</td>
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<td>11:45</td>
<td>Role of neutrophils in asthma and bronchoconstriction</td>
<td>Jodie Simpson (New Lambton, Australia)</td>
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<td>12:15</td>
<td>Role of innate lymphoid cells and the epithelium in asthma and</td>
<td>Cezmi A. Akdis (Davos, Switzerland)</td>
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Session 401  10:45 - 12:45

Hot topics: Recent advances in respiratory disorders with oropharyngeal dysphagia

**Aims:** Swallowing disorders are common in respiratory diseases and vice versa, but these combined conditions have been largely ignored to date. To address this, the ERS and the ESSD started a collaboration during the ERS Annual Meeting in London in September 2016. This collaboration aims to promote the development of programs for all patients who have both swallowing and respiratory disorders.

**Disease(s):** Sleep and breathing disorders

**Method(s):** Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, Physiologist, Physiotherapist, Radiologist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Thomas Similowski (Paris Cedex 13, France), Paolo Palange (Rome, Italy)
10:45 When swallowing disorders meet respiratory diseases: a clinical point of view
Eric Verin (ROUEN, France)

11:15 Dysphagia and sleep disorders: from physiology to clinical applications
Anita Simonds (London, United Kingdom)

11:45 Functional assessment of respiration in patients with progressive neurological diseases
Andrea Aliverti (Milan, Italy)

12:15 Swallowing dysfunction and aspiration pneumonia: a clinical perspective
Pierre Clavé (Barcelona, Spain)

7.3C Session 402 10:45 - 12:45
Symposium: Fungal infection in the intensive care unit
Aims: to deepen understanding about how to diagnose and treat bloodstream fungal infections.
Disease(s): Respiratory critical care, Respiratory infections
Method(s): General respiratory patient care, Respiratory intensive care
Tag(s): Clinical
Target audience: Critical/Intensive care physician, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Marcus Schultz (Amsterdam, Netherlands), Leo M.A. Heunks (Amsterdam, Netherlands)

10:45 Early diagnosis
David W. Denning (Manchester (Greater Manchester), United Kingdom)

11:15 Fungal infections in immunocompromised patients
Élie Azoulay (Paris, France)

11:45 Choosing the right antifungal agent
Marc Leone (Marseille, France)

12:15 The evidence regarding early antifungal treatment
Andrea Cortegiani (Palermo, Italy)

7.3Z1 Session 403 10:45 - 12:45
Symposium: Recent advances in primary ciliary dyskinesia
Aims: to present the general characteristics of primary ciliary dyskinesia (PCD), the recent findings regarding diagnostic tools and the international studies; and to promote further collaboration.
Disease(s): Paediatric respiratory diseases, Respiratory infections
Method(s): Epidemiology, General respiratory patient care, Imaging, Pulmonary function testing
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiotherapist, Policy maker, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Bülent Taner Karadag (Istanbul, Turkey), Jane Lucas (Southampton (Hampshire), United Kingdom)

10:45 Genetics of PCD
Heymut Omran (Münster, Germany)

11:15 Diagnosis of PCD
Eric G. Haarman (Amsterdam, Netherlands)

11:45 Clinical characteristics of PCD
Claudia E. Kuehni (Bern, Switzerland)

12:15 Management of PCD in young people and adults
Pierre-Régis Burgel (Sorbonne Paris Cité, France)

7.3B Session 404 10:45 - 12:45
Oral presentation: Quality, reference values and standards
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): General respiratory patient care, Physiology
**Chairs:** Jane Kirkby (Sheffield, United Kingdom), Maureen P. Swanney (Christchurch, New Zealand)

**Late Breaking Abstract - Do the 2012 GLI multi-ethnic reference equations show a good fit for healthy black South Africans?**

Sara-Jane Smith (London, United Kingdom), Diane Gray, Graham Hall, Sanja Stanojevic, Reratilwe Mphahlele, Lindsay Zumba, Refiloe Masekela

**Development and pilot evaluation of a quality grading system for paediatric spirometry**

Lucy Perrem (Toronto (ON), Canada), Felix Ratjen, Sharon Dell, David Wilson

**Impact of shorter time interval between duplicate DLCO measurements**

Azar Kianzad (Amsterdam, Netherlands), Jan Fijn, Pieter Zanen, Ivo Van Der Lee

**Hypoxic challenge testing in the UK and Australia & New Zealand**

Harry Griffin (Whitchurch, United Kingdom), Ashvin Isaac, William Noffsinger, Bhajan Singh, Helen Purcell

**Spirometry reference values for Australian Aboriginal and Torres Strait Islander (Indigenous) children and young adults**

Tamara Blake (South Brisbane, Australia), Mark Chatfield, Anne Chang, Helen Petsky, Margaret Mcelrea

**Evaluation of the ERS'93 reference equations of Total Lung Capacity**

Kevin De Soomer (Burcht, Belgium), Birgitte Hansen, Hilde Vaerenberg, Hilde Cuijpers, Karla Leemans, Ellie Oostveen

**The impact of a new reference value set for diffusing capacity for patients with idiopathic pulmonary fibrosis.**

Monique Wapenaar - De Korver (Vlaardingen, Netherlands), J.R. Miedema, C.J. Lammering, M.S. Wijsenbeek

**The impact of changing to the GLI reference equations on transfer factor results in children referred from a Haematology/Oncology service.**

Paul Burns (Glasgow (Glasgow), United Kingdom), James Paton

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**7.3Z2 Session 405 10:45 - 12:45**

**Oral presentation: Progress in rare interstitial lung diseases**

**Disease(s):** Interstitial lung diseases

**Method(s):** General respiratory patient care  Epidemiology  Cell and molecular biology

**Chairs:** Francesco Bonella (Düsseldorf, Germany), Sergio Harari (Milano (MI), Italy)

**Genetic landscape of pulmonary langerhans cell histiocytosis**

Fanélie Jouenne (Paris, France), Gwenael Lorillon, Carine Laurent-Issartel, Aurélie Sadoux, Véronique Meignin, Cristina Leschi, Emmanuelle Bugnet, Samia Mourah, Abdellatif Tazi

**Chemotherapy in patients with pulmonary Langerhans cell histiocytosis**

Elżbieta Radzikowska (Warszawa, Poland), Elżbieta Wiatr, Katarzyna Blasnska-Przerwa, Kazimierz Roszkowski-Sliz

**Fatal cases of pulmonary alveolar proteinosis: a nationwide surveillance in Japan**

Yoshikazu Inoue (Osaka, Japan), Etsuro Yamaguchi, Yasuhiro Setoguchi, Toshio Ichiwata, Masahito Ebina, Kazutoshi Cho, Ryushi Tazawa, Haruyuki Ishii, Takahiko Kasai, Masanori Akira, Toru Arair, Kanji Uchida, Hiroshi Kida, Konosuke Morimoto, Masanori Kitaichi, Chikatoshi Sugimoto, Koh Nakata, Kanako Katayama, Naoko Takeuchi, Akiko Matsumuro

**Characterization of the gene network driving the whole lung lavage (WLL) outcome in Pulmonary Alveolar Proteinosis (PAP).**

Ilaria Campo (Pavia (PV), Italy), Michele Zorzetto, Francesco Bonella, Francesca Mariani, Elena Paracchini, Zamir Kadija, Mario Grassi, Federica Meloni

**Vascular endothelial growth factors and matrix metalloproteinases serum levels for LAM diagnosis in patients with sporadic LAM and tuberous sclerosis**

Silvia Terraneo (Arosio (CO), Italy), Fabiano Di Marco, Gianluca Imeri, Lisa Giuliani, Silvia Ancona, Paola Cetrangolo, Enzo Grasso, Stefano Centanni, Elena Lesma

**A national registry for childhood interstitial and diffuse lung diseases in the United States.**

Lisa Young (Nashville, United States of America), Rebekah Nevel, Alicia Casey, Martha Fishman, Sebastian Welsh, Deborah Liptzin, James Hagood, Geoffrey Kurland, Daniel Craven, Elizabeth Fiorino, Jane Taylor, Samuel Goldfarb, Carol Conrad, Christin Kuo, Gail Deutsch, Aliva De, Michael Powers, Robin Deterding

**Pulmonary interstitial Glycogenosis – a systematic analysis of new cases**

Elias Seidl (München, Germany), Julia Carlens, Simone Reu, Martin Wetze, Julia Ley-Zaporozhan, Frank Brasch, Waldtraut Wesselak, Andrea Schams, Daniela Rauch, Luise Schuch, Matthias Kappler, Petra Schelstraete, Monika Wolf, Floria Stehling, Eric Haarmann, Dorine Borensztajn, Moniek Van De Loo, Sune Rubak, Bernd Hinrichs, Nicolaus Schwerk, Matthias Gries
Session 406 10:45 - 12:45

Symposium: New challenges in tackling known diseases with the 10 ERS Principles for Lung Health

Aims: Respiratory diseases are among the leading causes of death and disease in the world. The five respiratory diseases that have the biggest impact are COPD, asthma, lower respiratory tract infections, tuberculosis and lung cancer. The ERS recently published its “10 Principles for Lung Health”. These Principles indicate the diverse actions that the respiratory healthcare community can take to improve lung health, thereby helping the United Nations to achieve its ambitious targets, namely, the reduction of noncommunicable diseases, the induction of sustainable development and the elimination of tuberculosis. However, these actions cannot be viewed in isolation from broader societal challenges and public health topics such as migration and climate change. The aim of this session is to present the key elements of the 10 Principles for Lung Health and to describe the new and emerging challenges, namely, migration and climate change, that may limit the achievements of these Principles.

Disease(s): Airway diseases, Respiratory infections

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Allergist, Critical/Intensive care physician, Lung function technologist, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee

Chairs: Guy F Joos (Ghent, Belgium), Ildikó Horváth (Budakeszi, Hungary)

10:45 Lower respiratory infection and antimicrobial resistance
Tobias Welte (Hannover, Germany) 3788

11:15 COPD and asthma: the main noncommunicable diseases that should be tackled?
Antonio Spanevello (Milan, Italy) 3789

11:45 Respiratory health in migrant and refugee populations
Juan Celedon (Pittsburgh, United States of America) 3790

12:15 Environment, health and climate change: what respiratory professionals need to know
Isabella Annesi Maesano (Paris, France) 3791

Session 407 10:45 - 12:45

Oral presentation: Imaging biomarkers and quantitative imaging

Disease(s): Airway diseases, Pulmonary vascular diseases

Method(s): Physiology, Imaging

Chairs: Aleksandar Grgic (Homburg, Germany), Johan Coolen (Leuven, Belgium)

OA3792 Late Breaking Abstract - Value of planar V/Q scan and V/Q SPECT in diagnosing chronic thromboembolic pulmonary hypertension: head to head comparison with pulmonary angiography
Lei Wang (Shanghai, China), Meng Wang, Rongzheng Ma, Dayong Wu, Wei Fang

OA3793 Airway tapering in bronchiectatic and healthy airways
Kin Quan (London, United Kingdom), Joseph Jacob, Rebecca J. Shipley, David J. Hawkes, John R. Hurst

OA3794 Association of airways visibility on computed tomography with symptoms and lung function in COPD
Naoya Tanabe (Kyoto, Japan), Susumu Sato, Shigeo Muro, Tsuyoshi Oguma, Atsuyasu Sato, Toyohiro Hirai

OA3795 Using DPM CT analysis to assess the contribution of small airways disease in COPD
Kristoffer Ostridge (Southampton (Hampshire), United Kingdom), Kerry Gove, Miranda Kirby, Sam Peterson, Steven Mceleney, Chris Mccrae, Outi Vaarala, Karl Staples, Tom Wilkinson

OA3796 Quantitative computed tomography imaging in asthma and chronic obstructive pulmonary disease.
Andrzej Obojski (Wrocław, Poland), Mateusz Patyk, Martyna Parkitna-Patyk, Dąbrówka Sokołowska-Dąbek, Urszula Zaleska-Dorobisz

OA3797 PRM metrics predict COPD progression
Paula Belloni (Half Moon Bay, United States of America), Dorothy Cheung, Xiaoying Yang, Alex De Crespigny, Alexandre Coimbra

OA3798 Regional detection of edema following segmental LPS challenge using functional MR imaging
Jens Vogel-Clausen (Hannover, Germany), Julius Renne, Heike Biller, Marcel Gutberlet, Christoph Czerner, Marilisa Schiwek, Kathrin Hohl, Frank Risse, Maria Sarno, Abhya Gupta, Jens Hohlfeld

OA3799 Assessing regional lung ventilation with 19F-MRI of inhaled perfluoropropane
Benjamin Pippard (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Adam Maudner, Ian Forrest, Ian Sabroe, Rod Lawson, A John Simpson, Jim Wild, Pete Thelwall
### Session 408
**Oral presentation: Pulmonary embolism: long-term sequelae and advances in therapies**

**Disease(s):** Pulmonary vascular diseases

**Method(s):** Epidemiology  Imaging  Respiratory intensive care  General respiratory patient care

**Chairs:** Carlos Andres Quezada Loaiza (Las Rozas (Madrid), Spain), Francis Couturaud (Brest, France)

**OA3800** Variants of genes related to cardiovascular disease in patients with pulmonary thromboembolism  
Ayse Gul Zamani (Konya, Turkey), Adil Zamani, Celalettin Korkmaz, Şebnem Yosunkaya, Mahmut Selman Yıldırım

**OA3801** Percutaneous catheter-directed thrombectomy in patients with severe pulmonary embolism  
Costantino Del Giudice (Paris, France), Nadia Aissaoui, Arthur Neuschwander, Anne Roche, Benjamin Planquette, Paul Aouchou, Guy Meyer, Marc Sapoval, Olivier Sanchez

**OA3802** Tomographic features associated with excessive ventilatory responses during exercise in chronic pulmonary thromboembolic hypertension  
Andreí Augusto Assis de Campos Cordeiro (São Paulo (SP), Brazil), Pulcheri Roberta, Camila Loureiro, Eloara Ferreira, Angelo Cepeda, Carolina Messina, Rudolf Oliveira, Vergastro Carlos, Luiz Eduardo Nery, Jaqueline Ota-Arakaki

**OA3803** Pulmonary manifestations of antiphospholipid syndrome: A retrospective analysis of 67 patients  
Sevinc Sarinc Ulasli (Ankara, Turkey), Sevinc Sarinc Ulasli, Deniz Koksal, Oguz Karcigolu, Berkan Armagan, Alper Sari, Elif Babaoglu, Ali Akdogan, Sule Apras Bilgen

**OA3804** Frequency of chronic thromboembolic pulmonary hypertension screening after pulmonary embolism in cancer patients.  
Laurent Bertoletti (Saint Etienne Cedex, France), Judith Catella-Chatron, Adel Merah, Elodie De Magalhaes, Nathalie Moulin, Sandrine Accassat, Cécile Duvillard, Patrick Mismetti

**OA3805** Persistent exercise limitation after successful pulmonary endarterectomy: frequency and determinants  
Angelo Guido Corsico (Pavia (PV), Italy), Rita Di Domenica, Andrea Maria D’Armini, Valentina Conio, Amelia Grosso, Erica Gini, Federica Albicini, Maurizio Pin, Antonio Sciortino, Stefano Ghio, Catherine Klersy, Isa Cerveri

**OA3806** Pulmonary vascular disease(PC) and risk of mortality in patients with idiopathic pulmonary fibrosis(IPF)  

### Session 409
**Oral presentation: Novel findings in biomarkers of tobacco use, exposure, hazards and genetics**

**Disease(s):** Respiratory infections  Airway diseases  Respiratory infections

**Method(s):** General respiratory patient care  Cell and molecular biology  Epidemiology  Public health

**Chairs:** Elif Dagli (Istanbul, Turkey), Charlotta Pisinger (Glostrup, Denmark)

**OA3807** Late Breaking Abstract - Update the evidence about thirdhand smoke: a systematic review.  
Ana Diez (barcelona, Spain), Ana Diez, Pia Cassanello, Cristina Lidón, Núria Matilla, Albert Balaguer, Jose M Martinez

**OA3808** Tobacco consumption, systemic inflammation, and airflow limitation: a Mendelian randomization analysis of 98085 individuals  
Shoaib Afzal (Herlev, Denmark), Yunus Çolak, Peter Lange, Børge G. Nordestgaard

**OA3809** Smoking causes early biological aging: a deep neural network analysis of common blood test results  
Neil Skjodt (Lethbridge (AB), Canada), Polina Mamoshina, Kirilli Kochetov, Franco Cortese, Anna Kovalchuk, Alex Aliper, É Putin, Morten Scheibe-Knudsen, Charles R Cantor, Alex Zhavoronkov, Olga Kovalchuk

**OA3810** PLASMA/SALIVA AND GENOTYPIC/PHENOTYPIC DIFFERENCES OF NICOTINE METABOLITE RATIO.  
Gianfranco Puppo (Pisa (PI), Italy), Francesco Pistelli, Stefano Fogli, Marzia Del Re, Marco Lazzaretto, Ferruccio Aquilini, Romano Danesi, Laura Carrozzii, Antonio Palla

**OA3811** Assessment of the effect of exposure to environmental tobacco smoke on hair heavy metal levels in children  
Fatma Nazan Çobanoğlu (Ankara, Turkey), Fatih Gunay, Nisa Eda Cullas İlarslan, Filiz Bakar, Kiymet Deniz, Yusuf Kagan Kadioglu, Sibel Kiran, Nazan Cobanoglu

**OA3812** Cigarette smoking acutely decreases the serum levels of the COPD biomarker sRAGE  
Simon D. Pouwels (Groningen, Netherlands), Frank Klont, Marcel D. Kwiatkowski, Valerie R. Wiersma, Péter Horvatovich, Rainer Bischoff, Nick H.T. Ten Hacken
The associations between an IL-2 gene polymorphism and smoking in patients with recurrent pulmonary tuberculosis (RTB)
Dmytro Butov (Kharkiv, Ukraine), Mihailo Kuzhko, Tatiana Butova

Identification of smoking status from routine blood test results using deep neural network analysis.
Neil Skjodt (Lethbridge (AB), Canada), Polina Mamoshina, Kirill Kochetov, Franco Cortese, Anna Kovalchuk, Alex Aliper, E Putin, Morten Scheiby-Knudsen, Charles R. Cantor, Alex Zhavoronkov, Olga Kovalchuk

7.3P  Session 410  10:45 - 12:45
Oral presentation: CTD-ILD and hypersensitivity pneumonitis: risk stratification and management

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care
Chairs: Elisabetta Renzoni (London, United Kingdom), Julie Morisset (Montréal (QC), Canada)

Late Breaking Abstract - Clinical utility of basophil activating test (BAT) in subjects with drug-induced lung disease.
Shintaro Suzuki (Tokyo, Japan), Tetsuya Homma, Shin Ohta, Kyoko Fujiwara, Yoshito Miyata, Yasunari Kishino, Akihiko Tanaka, Tsukasa Ownhishi, Hironori Sagara

A prognostic staging system for rheumatoid arthritis-associated interstitial lung disease
Jin Woo Song (Seoul, Republic of Korea), Hocheol Kim, Minkyu Han, Jacob Joseph, Gary Cross, Joseph Barnett, Dong Soon Kim

Prognostic impact of bronchoalveolar lavage lymphocytosis in patients with chronic Hypersensitivity Pneumonitis
Julia Wälischer (Heidelberg, Germany), Benjamin Gross, Jacques Bruhwyler, Julie Morisset, Claus Peter Heussel, Felix Lasitschka, Felix Herth, Michael Kreuter

Lung involvement and clinical characteristics in anti-MDA5 positive connective tissue diseases
Federica Meloni (Pavia (PV), Italy), Jose M Cifrian, Alberto Pesci, Ricardo Coelho, Mayra Mejia, Francesco Bonella, Julie Perrin, Paolo Ceruti, Raquel Garcia-Sevilla, Elena Bargagli, Sandrine Hirschi, Veronica Codullo, Lorenzo Cavagna

Genetic variant in MMP2 increases the risk to develop autoantibodies in patients with Hypersensitivity Pneumonitis
Ivette Buendia Roldán (Mexico D.F, Mexico), Luis Santiago Ruiz, Gloria Perez Rubio, Mayra Mejia, Martha Montañó, Ramces Falfan Valencia

Cystic lesion in myeloperoxidase anti-neutrophil cytoplasmic antibody (MPO-ANCA)- positive interstitial pneumonia: radiological and pathological analysis
Erina Tabata (Kanagawa, Japan), Tamiko Takemura, Tomohisa Baba, Eri Hagiwara, Hirouki Nakagawa, Takuma Katano, Goshi Matama, Naoito Aiko, Kohsuke Isomoto, Ryota Ohtoshi, Ryota Shintani, Shinko Sadoyama, Satoshi Ikeda, Hideaki Yamakawa, Takashi Niwa, Tsuneyuki Oda, Ryo Okuda, Akimasa Sekine, Hideya Kitamura, Shigeru Komatsu, Tae Iwasawa, Takashi Ogura

The effect of Rituximab treatment on progression of Rheumatoid arthritis-associated interstitial lung disease
Sukhamni Sra (London, United Kingdom), Katherine Myall, Boris Lams, Sangita Agarwal, Alex West

Safety of benzodiazepines and opioids in interstitial lung disease: national prospective study
Sabrina Bajwah (London, United Kingdom), Joanna Davies, Hanan Tanash, David Currow, Magnus Ekstrom

7.3L  Session 411  10:45 - 12:45
Poster discussion: Telehealth, home rehabilitation and specific adaptations to exercise interventions in different settings

Disease(s): Sleep and breathing disorders Airway diseases Thoracic oncology Respiratory infections Interstitial lung diseases
Method(s): Transplantation Physiology Respiratory intensive care General respiratory patient care
Chairs: Christian Osadnik (Melbourne, Australia), Maria Koulopoulou (London, United Kingdom)

Late Breaking Abstract - Fatigue is highly prevalent in patients with COPD and correlates poorly with the airflow limitation
Yvonne Goërtz (Horn, Netherlands), Martijn Spruit, Alex Van 'T Hul, Jeannette Peters, Maarten Van Herck, Nienke Nakken, Remco Dijamin, Chris Burtin, Melissa Thong, Arnold Coors, Yvonne Meertens-Kerris, Emiel Wouters, Judith Prins, Fris Fransen, Jean Muris, Lowie Vanfleteren, Mirjam Sprangers, Daisy Janssen, Jan Vercoulen

Patient experiences of home-based rehabilitation during treatment for inoperable lung cancer.
Lara Edbrooke (Melbourne (VIC), Australia), Linda Denehy, Catherine Granger, Suzanne Kapp, Sanchia Aranda
PA3825 Can exercise capacity be improved after home exercise in COPD patients?
Silvia Regina Valderramas (Curitiba (PR), Brazil), Demetria Kovelsis, Camila Mazzarin, Samia Kalil Biazim, Anna Raquel Silveira Gomes

PA3826 Barriers and enablers of COPD telerehabilitation: a qualitative study taking a frontline staff perspective
Christina Damhus (Copenhagen V, Denmark), Christina Emme, Henrik Hansen

PA3827 How does a physiotherapy-led remote monitoring service for home mechanical ventilation impact upon patient experience?
Denise Gibson (Southampton (Hampshire), United Kingdom)

PA3828 Longitudinal, home-based study of lung function, saturation and disease-related symptoms in COPD
Karlin Wadell (Umeå, Sweden), Urban Wiklund, Fredrik Öhberg, Eva Bergmann, Åsa Holmer, Anders Blomberg

PA3829 Impact of single-limb (SL) versus two-limb (TL) low load/high-repetition resistance training (LLHR-RT) on clinical outcomes in people with COPD – a randomized controlled trial.
André Nyberg (Umeå, Sweden), Didier Saey, Mickael Martin, Françoise Maltas

PA3830 Impact of partitioning exercises on quadriceps muscle endurance and muscle fiber-type distribution following low-load/high-repetition resistance training (LLHR-RT) in people with advanced COPD.
Mickael Martin (Québec (QC), Canada), André Nyberg, Didier Saey, Françoise Maltas

PA3831 Interval versus continuous cycling in advanced interstitial lung disease
Lisa Wickerson (Toronto (ON), Canada), Dina Brooks, John Granton, Lianne Singer, Dmitry Rozenberg, Darlene Reid, Sunita Mathur

PA3832 Comparison of continuous flow versus demand oxygen delivery systems in COPD patients: a systematic review and meta-analysis
Rainer Glöeckl (Schoenau am Koenigssee, Germany), Christian Osadnik, Lisa Bies, Daniela Leitzl, Rembert Koczulla, Klaus Keen

PA3833 Effects of high-intensity exercise training: what about the asthma–COPD overlap syndrome?
Antenor Rodrigues (Londrina (PR), Brazil), Felipe VilacA Cavallari Machado, Leticia Bello, Lorena Paltain Schneider, Juliana Fonseca, Thamyres Spolon, Fernando Caleffi, Andrea Morita, Igor Lopes Brito, Ana Carolina Andrello, Thais Paes, Carlos Augusto Camillo, Nidia Aparecida Hernandez, Fabio Pitta

PA3834 Design of pulmonary rehabilitation during acute exacerbations of COPD
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Filipa Marques Rego Machado, Pedro Matos Silva

PA3835 Community-based pulmonary rehabilitation during acute exacerbations of COPD
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Machado, Ana Oliveira, Carla Valente, Chris Burtin

PA3836 Efficacy of a comprehensive education program including inhaler training and COPD management during hospitalization of AECOPD, a randomized controlled clinical trial
Irene Torres Sanchez (Santa Fe, Spain), Maria Granados-Santiago, Laura López-López, María Del Mar Lucena-Aguilera, Ramón Romero-Fernández, Marie Carmen Valenz

PA3837 Enhancing the understanding of the time course of AECOPD.
Ana Luisa Araujo Oliveira (Vila Nova de Famalicão, Portugal), Vera Afreixo, Carla Valente, Lilian Andrade, Alda Marques, New Haven, CT, USA, New Haven, Nikolaos Xylogioudis (nikoxylogioudis@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Guoing Yu (guoingyu@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Jose D. Herazo-Mayor (joseherazomaya@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Leonard Bizenhofer (leobenzhofer@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Anton Bennett (bennett@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Nafatli Kaminsky (naftalmaminski@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven)

PA3838 Acute exacerbation in COPD and relationship between cardiovascular risk and functional profile
Alessandro Heubel (Bauru, Brazil), Erika Kabbach, Jéssica Barbosa, Aline Agnolet, Nathalia Dias, Audrey Borghi-Silva, Meliza Roscani, Renata Mendes

PA3839 Comparing the effects of pulmonary rehabilitation in patients with uncontrolled and partially controlled asthma
Ilknur Naz (Izmir, Turkey), Hulya Sahin

PA3840 The effect of pulmonary rehabilitation on health-related quality of life in patients with pulmonary sarcoidosis
Katerina Neumannova (Olomouc, Czech Republic), Monika Zurlkova, Jakub Zatloukal, Vladimir LASTAKOVA, Lia HUBACKOVA, Vitezslav Kolek
Terminal 7  
Session 412  
10:45 - 12:45

Oral presentation: General thoracic surgery

**Disease(s):** Airway diseases, Thoracic oncology, Interstitial lung diseases  
**Method(s):** Cell and molecular biology, General respiratory patient care, Endoscopy and interventional pulmonology, Surgery  
**Chairs:** Cagatay Tezel (Istanbul, Turkey), Laureano Molins Lopez-Rodo (Barcelona, Spain)

**OA3841**
**Late Breaking Abstract - Pre-operative Non Invasive Ventilation (NIV) does not decrease post-operative complication rate after carcinologic lung surgery: the preOVNI GFPC 12-01 randomized controlled study.**
Nicolas Paleiron (Plouzane, France), Frederic Grassin, Christophe Lancelin, Celine Tromeur, Jacques Margery, Henri Berard, Antoine Cuvelier, Thomas Egenod, Christos Chouaid, Frederic Gagnadoux, Nicolas Venissac, Christine Donzel-Raynaud, Mallorie Kerjouan, Lionel Falcher, Jacques Le Treut, Olivier Tiffet, Isabelle Pichon, Angelina Dion, Francis Couturaud

**OA3842**
**Tumor marker assessment in cytologically negative pleural effusions from lung cancer by Machine Learning-based approach**
Stefano Elia (Roma (RM), Italy), Gianni D'Angelo, Alessandro De Stefano, Renato Massoud, Roberto Sorge, Claudio Cortese

**OA3843**
**Is there still a diagnostic indication for surgical lung biopsy in Interstitial Lung Diseases? A Comparative study between Cryobiopsy and Surgical Biopsy on 677 patients.**
Stefano Sanna (Forli, Italy), Claudia Ravaglia, Marta Mengozzi, Desideria Argnani, Anna Marianontania Parisi, Sara Tomassetti, Jury Brandolini, Venerino Peletti, Maurizio Malvi

**OA3844**
**Relationship between emphysematous lung volume and pulmonary function changes for lobectomized patients.**
Masanori Yokoba (Sagamihara (Kanagawa prefecture), Japan), Tsuyoshi Ichikawa, Shinya Harada, Tomoya Fukui, Satoshi Igawa, Hisashi Mitsufuji, Jiichiro Sasaki, Masaru Kubota, Katsukiko Naoki, Yukitoshi Sato, Masato Katagiri

**OA3845**
**Systematic Review and Meta-Analysis of Endoscopic Lung Volume Reduction Using Endobronchial Valves in Severe Emphysema: Are They Better?**
Luca Bertolaccini (Bologna (BO), Italy), Fabrizio Minervini, Piergiorgio Solli, Benedetta Bedetti, Alberto Pesci, Roberto Crisci, Marco Scarci

**OA3846**
**Connection in between the parameters of pulmonary rehabilitation and complication rate in thoracic surgery**
Attila Vagvolgyi (Budakeszi, Hungary), Zsolt Rozgonyi, Maria Kerti, Zsuzsanna Balogh, Csaba Feher, Miklos Molnar, Paul Vadasz, Janos Tamas Varga

**OA3847**
**Multicentre Validation of a Prediction Score of Prolonged Air Leak for VATS Lobectomies**
Luca Bertolaccini (Bologna (BO), Italy), Benedetta Bedetti, Davide Patrini, Yaron Shargall, Piergiorgio Solli, Emanuele Piroldini, Roberto Crisci, Marco Scarci

**OA3848**
**Uniportal Videothoracoscopic Surgery on awake patients**
Kalliopi Athanassiadis (Athens, Greece), Ioannis Alevizakis, Ioanna Sigala, Niki Giannopoulos, Afroditi Antoniou, Dimitrios Magouliotis, Ioannis Kalomenidis, Spiros Zakynthinos

7.2A  
Session 413  
10:45 - 12:45

Poster discussion: How far are we in terms of predicting mortality and exacerbations in COPD?

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections  
**Method(s):** Respiratory intensive care, Physiology, Epidemiology, Public health, General respiratory patient care  
**Chairs:** Alexander Mathioudakis (Manchester, United Kingdom), Müge Meltem Tor (Istanbul, Turkey)

**PA3849**
**Late Breaking Abstract - Detection of clinical instability by eNose in COPD patients**
Job J.M.H. van Bragt (Amsterdam, Netherlands), Rianne De Vries, Yemene F.W. Dalegeet, Susanne J.H. Vijverberg, Sigrid Kester, Johannes C.C.M. In'T Veen, Eric G. Haarman, Annelies Lucas, Frans H.C. De Jongh, Peter J. Sterk, Anke H. Maitland-Van Der Zee

**PA3850**
**Short Physical Performance Battery and long term prognosis following severe acute exacerbation of COPD: a prospective cohort study**
Ruth Barker (Aylesbury (Buckinghamshire), United Kingdom), Samantha S C Kon, Sarah E Jones, Matthew Maddocks, Wei Gao, Claire M Nolan, Suhani Patel, Hoi Yee Kwan, Stuart F Clarke, Michael I Polkey, Paul Cullinan, William D-C Man

**PA3851**
**Prognosis of COPD patients admitted to the ICU in middle income countries**
Ivan Kopitovic (Novi Sad, Republic of Serbia), Marija Vukoja, Moldovan Sabo, Zhigang Chang, Yimin Li, Harpreet Singh, Ozlem Cakir, Srdjan Gavrilovic, Ana Andrijevic, Manuel Hache, Rahul Kashyap, Yue Dong, Ognjen Gajic
Predictive value of CD14 and CD31 microparticles for the survival of COPD during 7 years
István Ruzsics (Pécs, Hungary), Margit Tőkès-Füzesi, Marianna Matancic, Veronika Sárosi, Gábor Woth, Tihamér Molnár

Cluster phenotyping as an approach to identify COPD patients at risk of poor prognosis.
Kristian Brat (Brno, Czech Republic), Marek Plutinsky, Vladimir Koblizek, Jaromir Zatloukal, Patrice Popelkova, Tomas Dvorak, Petr Safranek, Dmitry Rakita, Petr Vanik, Zuzana Liptakova, Lucie Heribanova, Pavлина Musilova, Milada Sipkova, Eva Kocova, Barbora Novotna, Ondrej Kudela, Michal Kopecky, Katerina Neumannova, Michal Svoboda, Jiri Jarkovsky, Zuzana Zbozinkova, Jan Svancara, Jaroslav Lnenicka, Vladimir Rihak

Predicting hospital readmissions in severe COPD patients using an electronic-nose.
Ana Rodrigo Troyano (Barcelona, Spain), Jordi Giner, Diego Sousa, Jose Luis Merino, Ana Alonso, Anna Feliu, Vicente Plaza, Borya Garcia-Cosio, Alver Agustí, Oriol Sibila

Vitamin-D deficiency & anaemia in patients with acute exacerbations of COPD (AECOPD): morbidity & mortality.
Niamh Cafferky (Sunderland, United Kingdom), Hussun-Ara Shah, Stephen Murphy

Neural respiratory drive (NRD) to predict long term mortality after an acute exacerbation of COPD (AECOPD)
Maxime Patout (Mont-Saint Aignan, France), Leonor Meira, Diego Sousa, Jose Luis Merino, Ana Alonso, Anna Feliu, Vicente Plaza, Borya Garcia-Cosio, Alver Agustí, Oriol Sibila

Elevated circulating MMP-9 is associated with increased exacerbation risk in COPD: results from SPIROMICS and COPDGene

Implementation of the GOLD 2017 disease classification in a real-life COPD cohort
Marek Plutinsky (Brno, Czech Republic), Kristian Brat, Vladimir Koblizek, Patrice Popelkova, Jaromir Zatloukal, Tomas Dvorak, Barbora Novotna, Petr Vanik, Pavлина Musilova, Petr Safranek, Lucie Heribanova, Vladimir Rihak, Milada Sipkova, Dmitry Rakita, Eva Kocova, Katerina Neumannova, Michal Kopecky, Ondrej Kudela, Michal Svoboda, Jan Svancara, Zuzana Zbozinkova, Jaroslav Lnenicka

Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Dennis Wat, Sarah Sibley, Julie Crane

Phenotype-based therapy of COPD: Effect on the rate of COPD exacerbations
Jaromir Zatloukal (Olomouc, Czech Republic), Eva Volakova, Vladimir Koblizek, Michal Svoboda, Patrice Popelkova, Marek Plutinsky, Kristian Brat, Barbora Novotna, Petr Safranek, Tomas Dvorak, Dmitry Rakita, Milada Sipkova, Rastislav Simek, Eva Kocova, Michal Kopecky, Lucie Heribanova, Pavлина Musilova, Blanka Snelerova, Zuzana Liptakova, Katerina Neumannova, Zuzana Zbozinkova

GOLD 2017 versus GOLD 2011 - comparison of the risk of exacerbations and mortality in COPD patients
Iliya Krachunov (Pleven, Bulgaria), Nikolay Kyuchukov, Zlatina Ivanova, Petkana Hristova, Plamen Pavlov, Pavлина Gilogovska, Tsanya Popova, Yavor Ivanov

Impact of stable state symptoms on the future burden of COPD exacerbations
Konstantinos Kostikas (Basel, Switzerland), Alexander Mackay, Stefan-Marian Frent, Pascal Pfister, Pankaj Goyal, Pritam Gupta, Donald Banerji, Francesco Patalano, Jadwiga A. Wedzicha

COPD exacerbation phenotypes in a five year hospitalisation cohort
Simon Bril (London, United Kingdom), Timothy Jones, Jan Brown, John Hurst, Rama Vancheeswaran

Association between bacterial load and inflammatory gene expression in COPD exacerbations
Hannah O'Farrell (Chermside, Australia), Janet Shaw, Rayleen Bowman, Kwan Fong, Ian Yang

Impact of moderate and severe exacerbations in severe COPD patients
Neddet B Gunsoy (London, United Kingdom), Katie Pascoe, Yumi Asukai, Claire Gait, Dmitry Galkin

VALIDATION OF AN ASSESSMENT TOOL FOR CONTROL IN COPD: ANALYSIS OF CLINICAL VARIABLES.
Pablo Catalan Serra (Valencia, Spain), Bernardino Alcázar, Marc Miravitlles, Maribel Marzo, Juan José Soler-Cataluña
<table>
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<tr>
<th>Disease(s) :</th>
<th>Respiratory infections, Respiratory infections</th>
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<tr>
<td>Method(s) :</td>
<td>Cell and molecular biology, Imaging, Epidemiology, Public health, General respiratory patient care</td>
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<tr>
<td>Chairs :</td>
<td>Daniela Maria Cirillo (Milano (MI), Italy), Alan Altraja (Tartu, Estonia)</td>
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<tr>
<td>PA3867</td>
<td>From policy to practice in Europe: a TBNET survey on the delivery of LTBI screening and treatment amongst migrants</td>
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<tr>
<td>Matthew Burman (London, United Kingdom), Ananna Rahman, Graham Bothamley, Christophe Lange, Heinke Kunst</td>
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<tr>
<td>PA3868</td>
<td>Cost-Effectiveness of Tuberculosis Screening for Migrant Children in Low-Incidence countries</td>
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<tr>
<td>Jakob Usemann (Basel, Switzerland), Markus Ledergerber, GüNther Fink, Nicole Ritz</td>
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<td>PA3869</td>
<td>Preventing the spread of TB among trans-Mediterranean migrants: the role of therapeutic education</td>
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<tr>
<td>Alessandro Etrusco Mastinu (Asti (AT), Italy), Tiziana Stobboine, Rudina Lika</td>
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<tr>
<td>PA3870</td>
<td>Increasing foreign born tuberculosis cases in Turkey and their detailed analysis with 2016 data.</td>
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<tr>
<td>Suha Özkan (Ankara, Turkey), Erhan Kabasakal, Ayşegül Yıldırım, Funda Baykal, Zeki Kilıçlasan, Şeref Özkar</td>
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<td>PA3871</td>
<td>Risk factors for tuberculosis in patients with history of incarceration</td>
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<td>Soumaya Ben Saad (Ariana, Tunisia), Nourelhouda Mbarek, Ines Mejri, Fatma Tritar</td>
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<td>PA3872</td>
<td>Treatment of latent tuberculosis infection among healthcare workers at a tertiary hospital in Korea</td>
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<tr>
<td>Eun Hye Lee (Seoul, Republic of Korea), Ji Eun Park, Mi Hwa Shin, Sang Hoon Leem, Song Yee Kim, Ji Ye Jung, Moo Suk Park, Young Sam Kim, Joon Chang, Young Ae Kang</td>
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<td>PA3873</td>
<td>Stigma towards tuberculosis patients amongst healthcare workers: Assessing a survey study</td>
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<td>Mehmet Sinan Bodur (Diyarbakir, Turkey), Mahsus Taylan, Haluk Calisir</td>
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<td>PA3874</td>
<td>The risk factors of latent tuberculosis infection among healthcare workers in South Korea, an intermediate tuberculosis burden country</td>
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<tr>
<td>Jae Seuk Park (Cheonan, Republic of Korea), Gu Hyun Hong, Doh Hyung Kim, Kim Donati (<a href="mailto:kim.donati@uliege.be">kim.donati@uliege.be</a> / ULiège, Liège), Catherine Gerard (<a href="mailto:catherine.gerard@uliege.be">catherine.gerard@uliege.be</a> / ULiège, Liège), Bernard Duyssinx (<a href="mailto:bduyssinx@chu.ulg.ac.be">bduyssinx@chu.ulg.ac.be</a> / CHU, Liège), Agnes Noel (<a href="mailto:agnes.noel@ulg.ac.be">agnes.noel@ulg.ac.be</a> / ULiège, Liège), Didier Cataldo (<a href="mailto:didier.cataldo@uliege.be">didier.cataldo@uliege.be</a> / ULiège/CHU, Liège)</td>
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<td>PA3875</td>
<td>The knowledge and attitudes of hospital staff about tuberculosis</td>
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<tr>
<td>Ilknur Basyigit (Kocaeli, Turkey), Serap Argun Baris, Ersin Alkilinc, Elif Karasal, Hasim Boyaci</td>
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<td>PA3876</td>
<td>Occupational tuberculosis screening for healthcare workers in a UK centre</td>
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<td>Mimi Li (Stockton-on-Tees (Cleveland), United Kingdom), Mark Schwec, Nigel Clerk, George Antunes</td>
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<td>PA3877</td>
<td>Effectiveness of X-ray tuberculosis screening in countries with a high burden of tuberculosis</td>
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<td>Denis Karostik (Saint-Petersburg, Russian Federation), Irina Kamyshtanshskaya, Alexander Vodovatov</td>
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<td>PA3878</td>
<td>Cost-effectiveness of two latent tuberculosis infection screening strategies</td>
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<tr>
<td>Raquel Duarte (Porto, Portugal), Ana Sofia Sousa, Ana Isabel Ribeiro, Alvaro Almeida, Ana Maria Correia, Carlos Carvalho</td>
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<td>PA3879</td>
<td>Genetic diversity of M. tuberculosis isolates from patients with drug-resistant TB in Japan</td>
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<td>Nobuyuki Kobayashi (Kiyose (Tokyo), Japan), Fumonori Mizukoshi, Tohru Miyoshi-Akiyama, Fumiko Kirikae, Akiko Ichinose, Keiji Funatogawa, Teruo Kirikae, Ken Ohta</td>
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<td>PA3880</td>
<td>Study of molecular-genetic mutations of tuberculosis mycobacteria in patients with pulmonary TB in Azerbaijan</td>
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<td>Irada Akhundova (Baku, Azerbaijan), Agigat Kadirova, Raffig Abuzarov, Nuriya Salimova, Gulzar Aliyeva, Mehriban Seyfeddinova</td>
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<td>PA3881</td>
<td>Drug resistance profile of Mycobacterium tuberculosis isolated in Da Nang, Vietnam</td>
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<td>Nguyen Thi Le Hang (Ha Noi, Vietnam), Minako Hijikata, Naoto Keicho, Shinji Maeda, Le Duc, Nguyen Diem, Nguyen Yen, Ikumi Matsushita, Seiya Kato</td>
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<td>PA3882</td>
<td>Genetic characteristics of M. tuberculosis strains circulating in Belarus</td>
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<td>Natalia Yatskevich (Minsk, Belarus), Henadz Hurevich, Alena Skrahina, Alena Nikolena, Aksana Zalutskaya, Valiantsina Lobik, Hanna Ramaneya, Tatsiana Bushma</td>
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<td>PA3883</td>
<td>Molecular-genetic characteristic of Mycobacterium tuberculosis isolated from people living in closed administrative-territorial formation in Ural region, Russia</td>
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<tr>
<td>Diana Vakhrusheva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Umpeleva, Natalya Eremeeva, Ludmila Golubeva, Ksenya Belousova</td>
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<td>PA3884</td>
<td>Universal genotyping of Mycobacterium tuberculosis (MTb) in Singapore, 2011-2017</td>
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<tr>
<td>Yee Tang Wang (Singapore, Singapore), Leo K Y Lim, Li Yang Hsu, Li-Hwei Sng, Vernon J M Lee, Cynthia B E Chee</td>
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Poster discussion: New insights in testing lung and respiratory muscle functions

**Disease(s):** Airway diseases  Respiratory critical care  Sleep and breathing disorders  Thoracic oncology

**Method(s):** Physiology  Imaging

**Chairs:** Pierantonio Laveneziana (Paris Cedex 13, France), Marieke L. Duiverman (Groningen, Netherlands)

**PA3885**
The use of functional respiratory imaging to investigate the impact of an oscillating positive expiratory pressure device on lung dynamics and drug deposition  
Jason Suggett (London (ON), Canada), Vlad Kushnarev, Glenn Leemans, Cedric Van Holsbeke, Dennis Belmans, Jan De Backer

**PA3886**
The positive and negative predictive values of an oscillometry upper limit of normal amongst the CanCOLD Cohort  
Ronald Dandurand (Beaconsfield (QC), Canada), Pei Zhi Li, Palmina Mancino, Jean Bourbeau

**PA3887**
Oscillometry from the CanCOLD Cohort: correlation with spirometry and patient reported outcomes  
Ronald Dandurand (Beaconsfield (QC), Canada), Pei Zhi Li, Palmina Mancino, Jean Bourbeau

**PA3888**
Early experience of oxygen enhanced magnetic resonance imaging (OE-MRI) in ataxia telangiectasia (A-T)  
Andrew Prayle (Nottingham (Nottinghamshire), United Kingdom), Marta Tibiletti, Caroline Youle, Shahideh Safavi, Saleh Alenazi, Jan Alappadan Paul, Andrew Cooper, Brett Haywood, Michael Barlow, Rob Dineen, Matthew Hurley, Geoff J M Parker, Andrew Bush, Ian Hall, Jayesh Bhatt

**PA3889**
Measuring lung inhomogeneity in asthma using a novel non-invasive technique  
Nayia Petousi (Oxford (Oxfordshire), United Kingdom), Nicholas Smith, Nick Talbot, Grant Ritchie, Ian Pavord, Peter Robbins

**PA3890**
Suppression of thoracic movements with intrapulmonary percussive ventilation in healthy subjects  
Gregory Reychner (Bruxelles, Belgium), Nicolas Audag, Geneviève Van Ooteghem, Aurora Carrasco, Xavier Geets, Giuseppe Liistro

**PA3891**
Further evidence of a sexual dimorphism in central airway size of adult non-smokers  
Troy Cross (Rochester, United States of America), Steven Chase, Courtney Wheatley, Robert Wentz, Bruce Johnson

**PA3892**
Changes in diaphragm stiffness assessed with ultrasound shear wave elastography reflect changes in transdiaphragmatic pressure  
Damien Bachasson (Paris, France), Martin Dres, Marie-CéCile Nierat, Jonne Doorduin, Jean-Luc Gennisson, Jean-Yves Hogrel, Thomas Similowski

**PA3893**
The relationship between diaphragmatic mobility and chest wall expansion in cerebral palsy  
Surussawadi Bennett (Khon Kaen, Thailand), Nittaya Tanrangka, Michael Bennett

**PA3894**
Mobility, shortening velocity and diaphragmatic thickness between infants born at term lower than and above 6 months of age: a pilot study  
Shirley Campos (Recife (PE), Brazil), Rayane Nunes, Helga De Souza, Fernanda Silva, Paulo Magalhães, Leticia Melo, Armêle Dornelas De Andrade, Cyda Reinaux

**PA3895**
Parasternal intercostal muscle ultrasound measurements correlate with disease severity in chronic obstructive pulmonary disease: a pilot study  
Peter Wallbridge (Melbourne (VIC), Australia), Selina Parry, Sourav Das, Candice Law, Gary Hammerschlag, Louis Irving, Mark Hew, Daniel Steinfurt

**PA3896**
Pathophysiological determinants of the response to hypoglossal nerve stimulation in obstructive sleep apnea  
Sara Op de Beeck (Wilrijk, Belgium), Ali Azarbarzin, Marijke Dietljen, Marc Willemen, Johan A. Verbraecken, Paul H. Van De Heyning, Andrew Wellman, Scott A. Sands, Olivier M. Vanderveken

**PA3897**
Multiparametric analysis of sniff nasal inspiratory pressure test in middle stage amyotrophic lateral sclerosis  
Jéssica Danielle Medeiros da Fonseca (Santa Cruz, Brazil), Antonio Sarmento, Andrea Aliverti, Layana Marques, Francesca Pennati, Mario Emilio Dourado-Júnior, Guilherme Fregonezi, Vanessa Resqueti

**PA3898**
Effects of posture on peak cough flow and respiratory muscle activation in Duchenne muscular dystrophy  
Jessica Medeiros, Layana Marques, Guilherme Fregonezi, Priscila Santos, Antonio Sarmento, Ana Marcelino, Natália Lopes, Andrea Aliverti, Mario Emilio Dourado Jr, Vanessa Resqueti

**PA3899**
Longitudinal study about the relationship between sarcopenia and lung function  
Eun Young Heo (Seoul, Republic of Korea), Goh Eun Chung, Ji Won Yoon, So Hee Oh, Deog-Keeom Kim, Hee Soon Chung, Seung Ho Choi
Prediction of Post Op Complication in Patients with Valvular Heart Surgery Based On O2 Challenge Test and A-a Gradient
Behshid Ghadrdoost (Tehran, Islamic Republic of Iran), Hassan Allah Sadeghi, Sarina Sadeghi

Pulmonary function in very long-term survivors after allogeneic stem cell transplantation (aSCT)
Ole Henrik Myrdal (Oslo, Norway), Phoi Phoi Diep, Ellen Ruud, Johny Kongerud, Liv Ingunn Bjoner Sikkeland, May B. Lund

The clinical implementation of haemoglobin measurement for gas transfer
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Jay Gadher, James Stockley, Brendan Cooper

Poster discussion: Asthma and allergy in adults and children and their biomarkers

Disease(s): Airway diseases, Respiratory critical care, Respiratory infections, Respiratory infections

Method(s): Physiology, General respiratory patient care, Respiratory intensive care, Public health, Epidemiology

Chairs: Eva Rönmark (Lulea, Sweden), Chair to be confirmed

Late Breaking Abstract - Associations of fathers and their offsprings weight gain with non-allergic asthma
Marianne Lønnebotn (Bergen, Norway), Roy Miodini Nilsen, Shyamali Dharmage, Karl A. Franklin, Mathias Holm, Christer Janson, Debbie Jarvis, Ane Johannesn, Jorunn Kirkeleit, Andre Malinovschi, Vivi Schlüssen, Cecilia Svanes, Francisco Gomez Real

Cost variations of asthma over 10 years in adults
Laura Portas (Bolzano (BZ), Italy), Lucia Calciano, Angelo Guido Corsico, Lucia Cazzoletti, Isa Cerveri, Margaret W Gerbase, David Gislason, Rune Gronseth, Joachim Heinrich, Rain Jögi, Ane Johannesn, Alessandro Marcon, Isabelle Pin, Margarethte Wacker, Deborah Jarvis, Christer Janson, Simone Accordini

Possible predictors for allergic sensitization at school age in umbilical cord blood, a prospective birth cohort study
Andras Laszlo Soti (Bern, Switzerland), Jakob Usemann, Kathryn Ramsey, Johanna Manuela Kurz, Bettina Sarah Frauchiger, Bianca Schaub, Urs Frey, Philipp Latzin, Oliver Fuchs

Increased prevalence of allergic rhinitis in young men in Western Sweden
Styliana Vasileiadou (Göteborg, Sweden), Emma Goksör, Goeran Wennergren, Roxana Mincheva, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

Physical activity in middle-aged and older asthmatics
Emmely W. de Roos (Rotterdam, Netherlands), Chantal Koolhaas, Johannes In ’T Veen, Bruno Stricker, Guy Brusselle, Lies Lahousse

Associations between Fluorescent Oxidation Products (FiOsp) level and change in asthma outcomes
Miara Andrianjafimasy (Villejuif cedex, France), Zeina Akiki, Farid Zerimech, Nicole Le Moual, Valérie Siroux, Orianne Dumas, Régis Matran, Rachel Nadif

Outdoor air pollution, fluorescent oxidation products and persistent asthma: the EGEA study
Anaïs Havet (Villejuif, France), Zhen Li, Farid Zerimech, Margaux Sanchez, Valerie Siroux, Nicole Le Moual, Bert Bruneckreef, Nino Küenzli, Benedictie Jacquemin, Raphaëlle Varraso, Regis Matran, Rachel Nadif

New sensitization to Aspergillus fumigatus in adult asthma over a 10-year observation period
Kentaro Watai (Sagamihara (Kanagawa prefecture), Japan), Yuma Fukutomi, Hiroaki Hayashi, Maki Iwata, Kisko Nagayama, Yuto Nakamura, Jun Tanaka, Yuto Hamada, Kai Ryu, Yasuhiro Tomita, Chihiro Mistui, Yosuke Kamide, Kiyoshi Sekiya, Akio Mori, Koichiro Asano, Masami Taniguchi

Molecular Epidemiology of Klebsiella pneumoniae: multicolonial dissemination of CTX-M-15 Extended Spectrum β-lactamase
Cátia Caneiras (Lisboa, Portugal), Sagrario Mayoralas Alises, José Melo Cristino, Aida Duarte

Prevalence of adventitious lung sounds in a large population sample.
Juan Carlos Aviles Solis (Trondheim, Norway), Cristina Jacome, Hans Pasterkamp, Hasse Melbye

Lung function in adults conceived by assisted reproductive technologies.
Liam Welsh (Melbourne (VIC), Australia), Sharon Lewis, Joanne Kennedy, Markus Juonala, John Mcbain, Sarah Ranganathan, Jane Halliday

Incidence and remission of asthma in adults: results from the West Sweden Asthma Study
Eivind Christian Borna (Moss, Norway), Bright I Nwaru, Roxana Mincheva, Emma Goksör, Linda Ekerljung
Adolescent smoking by parents and asthma in their children: repeat cross-sectional surveys in England
James Potts (London, United Kingdom), Cecilie Svanes, Simone Accordini, Deborah Jarvis

A retrospective observational study to characterize severe eosinophilic asthma in Taiwan
Yu-Fan Ho (Singapore, Singapore), Sumitra Shantakumar, Li-Wen Tuan, Tsu-Mei Lin, Yi-Hsing Chen

Severe asthma among adults: Prevalence and clinical characteristics
Helena Backman (Lulea, Sweden), Sven-Arne Jansson, Caroline Stridsman, Berne Eriksson, Linnea Hedman, Britt-Marie Eklund, Anne Sandstrom, Thomas Lindberg, Bo Lundback, Eva Ronmark

Domestic exposure to irritant cleaning agents and asthma in women
Pierre Lemire (Villejuif, France), Orianne Dumas, Sebastien Chanoine, Sofia Temam, Gianluca Severi, Marie-Christine Boutron-Ruault, Jan-Paul Zock, Valerie Siroux, Raphaelle Varraso, Nicole Le Moual

Maternal stress at work and in private life during pregnancy and offspring asthma
Kathrine Pape (København Ø, Denmark), Camilla Sandal Sejbæk, Hans Bay, Henrik Albert Kolstad, Jørn Olsen, Karin Sørig Hougaard, Kirsten Skamstrup Hansen, Line Rosendahl Meldgaard Pedersen, Niklas Worm Andersson, Reiner Rugulies, Xiaojin Liu, Vivi Schlüssen

Poster discussion: Pathobiology of pulmonary hypertension

Method(s): Physiology General respiratory patient care Cell and molecular biology

Chairs: Christophe Guignabert (Paris, France), Martin Wilkins (London, United Kingdom)

LSC - 2018 - Pulmonary vascular remodeling mediated by ADORA2B in pulmonary artery smooth muscle cells
Tinne C. J. Mertens (Houston, United States of America), Ankit Hanmandlu (ankit.hanmandlu@utexas.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Ly Tu (Ly.Tu@inserrm.fr / INSERM UMR_S 999, Université Paris-Sud, LE PLESSIS-ROBINSON), Carole Phan (phan.carole@gmail.com / INSERM UMR_S 999, Université Paris-Sud, LE PLESSIS-ROBINSON), Scott Collum (scott.d.collum@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Ning-Yuan Chen (ning-yuan.chen@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Jonathan Davies (jldavies@texaschildrens.org / Department of Pediatrics, Baylor College of Medicine, Houston), Ashrith Guha (gashrith@houstonmethodist.org / DeBakey Heart & Vascular Center, Houston Methodist Hospital, Houston), Holger Eltzschig (holger.eltzschig@uth.tmc.edu / Department of Anesthesiology, McGovern Medical School, UTHealth, Houston), Michael Blackburn (michael.r.blackburn@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston)

LSC - 2018 - Alternative Polyadenylation (APA) modulates extracellular matrix deposition in pulmonary hypertension
Scott Collum (Houston, United States of America), Tingting Weng (Tingting.Weng@uth.tmc.edu / UTHealth, Houston), Adriana Hernandez (Adriana.M.Hernandez@uth.tmc.edu / UTHealth, Houston), Tinne Mertens (Tinne.C.Mertens@uth.tmc.edu / UTHealth, Houston), Ning-Yuan Chen (Ning-Yuan.Chen@uth.tmc.edu / UTHealth, Houston), Ashrith Guha (gashrith@houstonmethodist.org / DeBakey Heart & Vascular Center, Houston Methodist Hospital, Houston), Keith Youker (kayouker@houstonmethodist.org / DeBakey Heart & Vascular Center, Houston), Eric Wagner (ejwagner@UTMB.EDU / UTMB, Galveston), Leng Han (Leng.Han@uth.tmc.edu / UTHealth, Houston), Michael Blackburn (Michael.R.Blackburn@uth.tmc.edu / UTHealth, Houston), Harry Karmouty-Quintana (Harry.Karmouty@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston)

NMR serum metabolomics for understanding the pathophysiology of COPD associated PH: A pilot study
Koel Chaudhury (Kharagpur (West Bengal), India), Priyanka Choudhury, Nilanjana Ghosh, Mamata Joshi, Parthasarathi Bhattacharya

KCNK3 channel inactivation leads to pulmonary vascular alterations in rat
Mélanie Lambert (Le plessis robinson, France), Veronique Capuano, Angele Boet, Aurelie Hautefort, Thomas Bertero, Boris Manoury, David Montani, Marc Humbert, Frederic Perros, Fabrice Antigny

Implication of the histone methyltransferase EZH2 in pulmonary arterial hypertension
Olivier Boucherat (Québec (QC), Canada), Karima Habbout, Steeve Provencen, Sébastien Bonnet

Functional changes in peripheral blood derived outgrowth endothelial progenitor cells from PAH patients in response to hypoxia
Rebecca Harper (Adelaide (SA), Australia), Suzanne Maiolo, Michaela Cockshell, Claudine Bonder, Paul Reynolds

Pulmonary Arterial Hypertension Affects the Rat Gut Microbiome
Francisco Perez Vizcaino (Madrid, Spain), Maria Callejo, Gema Mondejar-Parreño, Bianca Barreira, José Luis Izquierdo-Garcia, Daniel Morales-Can, Sergio Esquivel-Ruiz, Laura Moreno, Angel Cogolludo, Juan Duarte
A novel piperidine attenuates pulmonary arterial hypertension via regulating BMP2 and PTGS2 levels
Jun Yang (, China), Yanjiang Xing, Fang Zhou, Xin Zhao, Rafia Al-Lamki, Mingxia Du, Guangdong Shang, Nicholas W Morrell

The BRD4-PLK1 Axis Drives Vascular Remodeling in PAH
Olivier Boucherat (Québec (QC), Canada), Eve Tremblay, Sandra Martineau, Ravi Jahagirdar, Ewelina Kulikowski, Steeve Provencher, SéBastien Bonnet

Role of CHK1 in Pulmonary Arterial Hypertension
Olivier Boucherat (Québec (QC), Canada), Alice Bourgeois, Sandra Breuils-Bonnet, Steeve Provencher, SéBastien Bonnet

Mutations in the bone morphogenic protein receptor 2 promoter in heritable pulmonary arterial hypertension
Christina Eichstaedt (Heidelberg, Germany), Jie Song, Rebecca Rodriguez Viales, Zixuan Pan, Christine Fischer, Katrin Hinderhofer, Ekkehard Grünig

Immune repertoire-based signatures in pre-capillary pulmonary hypertension
Sylvia Cohen-Kaminsky (Paris, France), Sebastien Dumas, Morad Nakhleh, David Montani, Barbara Girerd, Andrej Seferian, Peter Dorfmuller, Isabelle Klingel-Schmitt, Matthieu Vocelle, Anais Courtier, Orchidee Filippe-Santo, Gilles Parmentier, Solene Perez, Caroline Superbielle, Sophie Caillat-Zucman, Dartevelle Philippe, Gerald Simonneau, Frederic Perros, Marc Humbert

Long noncoding RNA H19 in the pathogenesis of right ventricular failure with pulmonary arterial hypertension
Junichi Omura (Osaka, Japan), Sandra Breuils-Bonnet, Olivier Boucherat, Steeve Provencher, Sébastien Bonnet

Outgrowth, proliferative speed and angiogenic capacity of Endothelial Colony Forming Cells (ECFC) correlate with disease severity and right ventricular (RV) adaptation in Pulmonary Arterial Hypertension (PAH) patients
Josien Smits (Amsterdam, Netherlands), Dimitar Tasev, Robert Szulcek, Stine Andersen, Steffen Ringaard, Janus Hyldebradt, Asgar Andersen, Anton Vonk-Noordegraaf, Pieter Koolwijk, Harm-Jan Bogaard

Uric acid contributes to the progression of pulmonary hypertension in rodents and humans
Laurent Savale (Le Kremlin-Bicêtre, France), Satoshi Akagi, Ly Tu, Raphael Thuillet, Jennifer Bordenave, Thimoté Quatremare, Amélie Cunon, Carole Phan, Alice Huertas, Marc Humbert, Yuichi Tamura, Chrístophe Guignabert

Fine structural modifications of heparan sulfate sulfation patterns in lung are associated with functional effects in Pre-capillary Pulmonary Hypertension
Patricia ALBANESE (Creteil, France), Sébastein Dumas, Benoît Ranchoux, Sara Shamdani, Sandrine Chantepe, Minh Bao Huynh, David Montani, Barbara Girerd, Peter Dorfmuller, Elie Fadel, Philippe Dartevelle, Frederic Perros, Marc Humbert, Dulce Papy-Garcia, Sylvia Cohen-Kaminsky

Pharmacological activation of Nur77 enhances BMP signalling and inhibits vascular remodelling in pulmonary arterial hypertension
Konda Babu Kurakula (Leiden, Netherlands), Xiao-Qing Sun, Chris Happé, Marie-José Goumans, Harm Jan Bogaard

NMDA receptor activation promotes vascular remodeling and pulmonary arterial hypertension
Sylvia Cohen-Kaminsky (Paris, France), Sébastien Dumas, Gilles Bru-Mercier, Audrey Courboulin, Marceau Quatredeniers, Catherine Rucker-Martín, Fabrice Antigny, Morad Nakhleh, Benoit Ranchoux, Elodie Goudan, Maria-Candida Vinhas, Matthieu Vocelle, Nicholas Raymond, Peter Dorfmuller, Elie Fadel, Frederic Perros, Marc Humbert

No Room

Game Zone: GAME ZONE - SESSION 6

Ultrasound
Maryam Ahmed (Manchester, United Kingdom), Judith Lyons (, United Kingdom)

Interventional bronchoscopy
Fausto Leoncini (Montespertoli (FI), Italy), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Rein Posthuma (Maastricht, Netherlands)

Thematic poster: Tests and trends in asthma
Disease(s) : Respiratory critical care, Airway diseases, Sleep and breathing disorders
Method(s) : Physiology, Endoscopy and interventional pulmonology, Imaging, Epidemiology, Cell and molecular biology, Public health, General respiratory patient care
Chairs : Jean-Marie Nguyen Quang (Paris, France), Rachel Nadif (Villejuif, France), Jodie Simpson (New Lambton, Australia), Helen Reddel (Sydney (NSW), Australia)
PA3944
Time trends in clinical characteristics of patients with severe asthma: data from the Belgian Severe asthma register (BSAR)
Stephanie Dobbelaere (Gent, Belgium), Florence Schleich, Renaud Louis, Olivier Vandenplas, Alain Michils, Charles Pilette, Rudi Peche, Guy Joos, Guy Brussele

PA3945
Accuracy of objective tests for diagnosing adult asthma in symptomatic patients: A systematic literature review and hierarchical Bayesian latent-class meta-analysis.
Hiroyuki Sano (Osakasayama, Japan), Katsuyuki Tomita, Akiko Sano, Osamu Nishiyama, Takashi Iwanaga, Yuji Tohda

PA3946
Clinical predictors of the effectiveness of tiotropium in adults with symptomatic asthma: the real-life data
Wen-Chien Cheng (Taichung, Taiwan), Chih-Yen Tu, Biing-Ru Wu, Chih-Yu Wu, Wei-Chun Chen, Te-Chun Hsia, Wei-Chih Liao, Chia-Hung Chen, Wu-Huei Hsu

PA3947
Comorbidities in asthma, what impact?
hager kchouk (tunis, Tunisia), Haifa Zaibi, Jihen Ben Ammar, Dorra Karray, Mohamed Ali Baccar, Saloua Azzabi, Besma Dhahi, Ichem Aouina

PA3948
Targeting PDE3 Abrogates the Hallmarks of Asthma in Asthma Models
Alex Kleinjan (Choose State, Netherlands), Jan Beute, Keerthana Ganesh, Melanie Lukkes, Menno Van Nimwegen, Steve Hockman, Vince Manganiello, Rudi Hendriks

PA3949
Knowledge of pulmonologists, allergists, ENTs and paediatricians related to maintenance asthma treatment
Désirée Larenas-Linnemann (mexico, Mexico), Jan Beute, Keerthana Ganesh, Melanie Lukkes, Menno Van Nimwegen, Steve Hockman, Vince Manganiello, Rudi Hendriks

PA3951
The bronchial asthma and upper respiratory tract multimorbidity in children
Natalia POPOVA (Moscow, Russian Federation), M Glukhova, S Krasilnikova, Е Tush, Т Eliseeva, O Khaletskaya, L Murakaeva, Igor Klimanov, I Balabkin

PA3952
The influence of the environment on the asthma
Arfaoui Hajar (Casablanca, Morocco), Wiam Elkhattabi, Hasna Jabri, Hicham Afif

PA3953
Influence of sex in inhaler technique, adherence to treatment and control of Asthma.
Maria Perez Morales (San josé del valle, Spain), Gonzalo Jimenez Galvez, Aurelio Arnedillo Muñoz, Alberto Levy Naón, Auxiliadora Romero Falcón, Ana Gómez-Bastero Fernández

PA3954
Who should do the asthma control test: Patient? Physician?
SEVDA COMERT (Istanbul, Turkey), Seda Beyhan Sağmen, Coskun Dogan, Elif Torun Parmaksız, Ali Fidan, Banu Salepci, Nesrin Kıral

PA3955
The influence of the environment on the asthma
Arfaoui Hajar (Casablanca, Morocco), Wiam Elkhattabi, Hasna Jabri, Hicham Afif

PA3956
Relationship between omalizumab efficacy and baseline allergen profile impacts patient-reported outcomes in allergic asthma
Jing Li (Guangzhou (Guangdong), China), Jian Kang, Lingfei Kong, Jing Yang, Lu Wang, Michael Humphries, Ioannis Kottakis, Robert Fogel, Xiao Hoong Lau, Nan Shan Zhong

PA3957
A national audit of severe life-threatening asthma in Singapore
Ser Hon Puah (Singapore, Singapore), Anthony Yii, Hui Fang Lim, Tunn Ren Tay, Lay Ping Neo, Andrew Li, Priscilla Lau, Rae-Ann Tan, Li Leng Tan, John Abisheganaden, Tow Keang Lim, Mariko Siyue Koh

PA3958
Effects of endotoxin inhalation and it with ICS/LABA inhalation on diaphragm muscle contractile properties in mice
Chiyohiko Shindoh (Sendai, Japan), Yusuke Shindoh, Masahito Miura

PA3959
Dependence of quality of life on cellular patterns of inflammation in asthma patients
Natalia Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Anna Prikhodko, Leonid Nakhamchen

PA3960
Phenotyping asthma patients in the ED: 6 months experience in Naples
Francesca Simioli (Napoli (NA), Italy), Maria Martino, Antonio Molino, Anna Agnese Stanziola, Lucia Gallinaro, Maria D'Amato

PA3961
Unraveling adenosine and AMP induced dyspnea sensation in asthma
Claire A. Cox (Groningen, Netherlands), Ilse M. Boudewijn, Sebastiaan J. Vroegop, Siebring Schokker, Anne J. Lexmond, Hendrik W. Frijlink, Paul Hagedoorn, Judith M. Vonk, Martijn P. Farenhorst, Nick H.T. Ten Hacken, Huib A.M. Kerstjens, Maarten Van Den Berge
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<th>PA3962</th>
<th>Virtual Patient Journeys: A novel aid for teaching asthma to medical students</th>
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<td>Joseph Salem (London, United Kingdom), Junaid Fukuta</td>
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<td>PA3963</td>
<td>Fixed airway obstruction in patients with severe asthma</td>
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<td></td>
<td>Galina Sergeeva (St. Petersburg, Russian Federation), Alexander Emelyanov, Evgenia Leshenkova, Antonina Znakhurenko, Nana Asatiani</td>
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**TP-02**  
**Session 423**  
**12:50 - 14:40**  
**Thematic poster: Asthma and drugs**

**Disease(s):** Airway diseases, Respiratory critical care  
**Method(s):** Epidemiology, Respiratory intensive care, Public health, Endoscopy and interventional pulmonology, General respiratory patient care, Imaging, Physiology

**Chairs:** Stefan Blaas (Regensburg, Germany), Yasemin Türk (Rotterdam, Netherlands), Michiko Haida (Tokyo, Japan), Mark Fitzgerald (Vancouver (BC), Canada)

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<th>PA3964</th>
<th>Bronchoscope-guided Catheter-directed therapy for Patients with Severe Asthma and Airway Stenosis. Shah W, Thong L, Redmond K, Murray J, Cormican L J, Burke CM, Faul JL.</th>
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<td></td>
<td>Waheed Shah (Dublin 11, Ireland), John Faul</td>
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<td>PA3965</td>
<td>Clinical-functional manifestations of osmotic airway hyperresponsiveness in asthma patients</td>
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<td>Evgenia Y. Afanaseva (Blagoveshchensk (Amur Oblast), Russian Federation), Anna G. Prikhodko</td>
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<td>PA3966</td>
<td>Overlapping biological drugs prescription status: real life in Genoa</td>
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<td>Diego Bagnasco (GENOVA (GE), Italy), Teresita Aloe', Tommaso Bondavalli, Elisa Testino, Andrea Manfredi, Giovanni Passalaquca</td>
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<td>PA3967</td>
<td>Evaluation of nationwide quality control indicators of asthma treatment</td>
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<td>So-My Koo (Seoul, Republic of Korea), Minseong Kim, Gun Woo Park, Sungho Won, Hyeon-Jong Yang</td>
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<td>PA3968</td>
<td>Adjustable maintenance dosing with budesonide/formoterol provides effective asthma symptom control at a lower average dose than with fixed dosing – 6-month study</td>
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<td>Olha S. Tolokh (Lviv, Ukraine), Nadiya D. Rudynska</td>
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<td>PA3969</td>
<td>Features of adult-onset (19+) difficult asthma differ by sex in the WATCH cohort.</td>
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<td>Clair Barber (Southampton (Hampshire), United Kingdom), Kerry Gove, Deborah Knight, Frances Mitchell, Hans Michael Haitchi, Colin Newell, Paddy Dennison, Tom M Wilkinson, Peter H Howarth, Ramesh J Kurukulaarachty</td>
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<tr>
<td>PA3970</td>
<td>Association between asthma exacerbations and air pollution in Badalona (Barcelona). (2008-2016). Malagutti, Ignasi Garcia-Olivé, Joaquim Radua, Jorge Abad-Capa</td>
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<td>PA3971</td>
<td>Quality of life (QOL) and pulmonary rehabilitation (PRP) : Functional correlates in asthma and COPD outpatients</td>
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<td>Daryna Semotyuk (Lviv, Ukraine), Krystyna Volnytska</td>
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<td>PA3972</td>
<td>Preferences for current inhaler devices in patients with asthma</td>
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<td>Diana Paulina Chiluiza Reyes (Madrid, Spain), Beatriz Martin, Ana Jaureguizar, Francisco León , Esther Barbero, Edwin</td>
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<td>Mercedes, Carlos Almonacid</td>
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<td>PA3973</td>
<td>Indirect airway challenges and asthma related conditions in healthy active individuals</td>
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<td>William Gowers (Whitstable, United Kingdom), Anna Jackson, James Hull, Janes Hopker, John Dickinson</td>
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<td>PA3974</td>
<td>Effect of a short-term yoga-based lifestyle intervention on lung function and quality of life in bronchial asthma patients</td>
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<td>Eva Eva (New Delhi (Delhi), India), Ritesh Netam, Anjana Talwar, Anant Mohan, Raj Kumar Yadav, Saurabh Mittal,</td>
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<td>Hanjabam Barun Sharma, Sanjay Patel</td>
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<td>PA3975</td>
<td>Contribution of respiratory function in asthma</td>
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<td>kenza fezaa (algiers, Algeria), Leila Lauar, Wafia Bourekoua, Mohamed Tayeb Makhloufi, Samya Taright</td>
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<td>PA3976</td>
<td>Asthma control and psychological status in university students</td>
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<td>Snezana Stojanovic Ristic (Belgrade, Republic of Serbia), Branislava Milenkovic, Milan Lutas, Zaklina Davicevic Elez,</td>
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<td>Tamara Lukic, Jelena Jankovic, Sanja Dimic Janjic, Natasa Djurdjevic</td>
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<td>PA3977</td>
<td>Identifying Asthmatic Children using Tidal Breathing Parameters Measured by Structured Light Plethysmography (SLP)</td>
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<td>Hamzah Hmeidi (Ely, United Kingdom), Hamzah Hmeidi (Stoke-on-Trent (Staffordshire), United Kingdom), Shayan Motamedi Fakhr,</td>
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<td>Ed Chadwick, Francis Gilchrist, Rachel Wilson, Warren Lenney, Richard Iles, John Alexander</td>
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<td>PA3978</td>
<td>Developing datasets for a national audit of hospital asthma care and organisation in England and Wales. Rachael Andrews (London, United Kingdom), Viktoria Mcmillan, Christopher M Roberts, Shuaib Nasser</td>
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<td>PA3979</td>
<td>Challenges faced by Indian pediatricians in management of pediatric asthma in clinical practice. Shrikant Pawar (Pune (Maharashtra), India), Monica Barne, Noopur Hedawoo, Nisha Kale, Sapna Madas, Sundeept Salvi</td>
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<td>PA3980</td>
<td>Relationship between alexithymia and psychological status in university students with asthma Branišlav Milenković (Beograd, Republic of Serbia), Snezana Ristic, Žaklina Davicevic-Elez, Jelena Jankovic, Natasa Djurdjevic, Sanja Đimic Janjic</td>
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<td>PA3981</td>
<td>Objective characterisation of difficult asthma in the WATCH study Anna Freeman (Southampton, United Kingdom), Heena M Mistry, Matt A E Harvey, Hans Michael Haitchi, Colin Newell, Paddy Dennison, Tom M Wilkinson, Ramesh J Kurukulaarachchi</td>
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<td>PA3982</td>
<td>Uncontrolled asthma among patients attending a Specialist Respiratory Clinic in a resource-limited setting Gayani Liyanage (Welisara, Sierra Leone), Eshani Perera</td>
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<td>PA3983</td>
<td>Improvement of small airway deposition of corticosteroids by smart nebulisation Bernhard Müllinger (Gauting, Germany), Juliane Schick, Gary Burgess, Sue Snape</td>
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**TP-03 Session 424 12:50 - 14:40**

**Thematic poster: Clinical markers of asthma**

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** Public health, Endoscopy and interventional pulmonology, General respiratory patient care, Cell and molecular biology, Epidemiology

**Chairs:** Christophe Leroyer (Brest, France), Alvaro A. Cruz (Salvador (BA), Brazil), Camille Begne (Perigueux, France), Helena Backman (Lulea, Sweden)

| PA3984 | Loss of smell: a clinical marker of severe asthma Jose Antonio Castillo Vizuete (Sitges (Barcelona), Spain), Cesar Picado, Vicente Plaza, Gustavo Rodrigo, Berta Juliá, Cristina Fernandez, Joaquim Mullol |
| PA3985 | Chronic hyperventilation in Asthma Duco Deenstra (Nijmegen, Netherlands), Hanneke Van Helvoort, Noortje Koolen, Remco Djamin, Jeanine Antons, Alex Van ‘T Hul |
| PA3986 | One-year follow-up of asthma patients in a randomised controlled trial of high-intensity training. Are there lasting effects? Adrian Bentzon (Copenhagen, Denmark), Linda Loehde, Louise Toennesen, Celeste Porsbjerg, Morten Hostrup, Vibeke Backer |
| PA3987 | Correlation between reduced forced expiratory flow between 25% and 75% (FEF 25-75%) and a positive methacholine challenge test (MCT) in adults with non-obstructive baseline spirometry. Irfan Shafiq (Abu Dhabi, United Arab Emirates), Ali Wahla, Mateen Uzbeck, Niyas Parappurath, Zaid Zoumot |
| PA3988 | Clinical and histologic effect of bronchial thermoplasty after 1 year Roberto Piro (Reggio Emilia (RE), Italy), Carla Galeone, Francesco Menzella, Patrizia Ruggiero, Mirco Lusuardi, Nicola Facciolongo |
| PA3989 | Quality of sleep in asthmatic patients Abel Pallares Sammartin (Vigo (Pontevedra), Spain), Ana Sogo Sagardia, Maria Victoria González Gutiérrez, Astrid Crespo Lessman, Nuria Marina Malanda, Ruben Andújar Espinosa, Marta Ferrer Galván, Ana Boldova Loscertales, Susana Herrera Lara, Laura Vigil Gimenez, Jose Serrano Pariente, Carolina Cisneros Serrano, Antolin López Viñas, Cesar Picado Vallés, Vicente Plaza Moral |
| PA3990 | Evaluation of pulmonary function after bronchial thermoplasty in the treatment of severe uncontrolled asthma using forced oscillation technique. Yukiko Shimoda (Shinjuku, Japan), Motoyasu Ikura, Keita Sakamoto, Masao Hashimoto, Satoru Ishii, Shinya Izumi, Masayuki Hojo, Haruhiro Sugiyama |
| PA3991 | Factors that determine the success of step-up therapy in uncontrolled asthmatic patients in clinical practice Alexandra Suliana Mogrovejo Calle (Valencia, Spain), Eva Martinez Moragón, Julio Delgado Romero, Manuel Pérez Estrada Cornejo, Ignacio García Nunez, Andrea Crespo Sedano, Antonia Soto Vanegas |
Measures of adherence in patients with severe asthma prescribed systemic steroids in the U-BIOPRED cohort

The association of vigorous physical activity with 10-year adult asthma incidence
Melissa Russell (Melbourne (VIC), Australia), Shyamali Dharmage, Elaine Fuertes, Deborah Jarvis, Michael Abramson, Joachim Heinrich, Ane Johannessen, Benedicte Lenaert, Alessandro Marcon, Nicole Probst, Chantal Raherison, Giulia Squillaciotti, José-Luis Sánchez-Ramos, Johan Sommar, Judith Garcia Aymerich

Immediate bronchodilation response in FEV1 as a diagnostic criterion of adult asthma
Leena Esteri Tuomisto (Košenhanv V, Denmark), Asger Sverrild, Vibeke Backer, Celeste Porsbjerg

Clinical outcomes in non-eosinophilic versus eosinophilic asthma after 12 months specialist management
Morten Hvidtfeldt (København V, Denmark), Asger Sverrild, Vibeke Backer, Celeste Porsbjerg

Two phenotypes of severe asthma identified by cluster analysis
Olga Kharevich (Minsk, Belarus), Irina Lapteva, Elena Lapteva

Changes of the blood pressure in asthmatics of different age groups in response to short-time cold airway challenge
Anna G. Prikhodko (Blagoveshchensk (Amur Oblast), Russian Federation), Juliy M. Perelman

Switch from Symbicort Turbuhaler to Bufomix Easyhaler; a real-life prospective study in asthma patients
Paula H. Rytilä (Espoo, Finland), Jörgen Syk, Ines Vinge, Mikael Sörberg

Patterns of sensitization to furry animal allergen components in adult asthma and indicators of severity
Bright Nwaru (Gothenburg, Sweden), Bright Nwaru, Shintaro Suzuki, Linda Ekreljung, Sigrid Sjölander, Roxana Mincheva, Erik Rönnmark, Eva Rönnmark, Magnus Borres, Bo Lundbäck, Jan Lötvall

Incremental cost-effective ratio effect of Omalizumab treatment for Severe Allergic Asthma at Danish university Hospital.
Søren Bagge Petersen (Ålborg, Denmark), Ulla Möller Weinreich

Dynamic hyperinflation predicts impaired daily life activity in asthma
A.N. van der Meer (Leeuwarden, Netherlands), K. De Jong, E.H. Bel, A. Ten Brinke

SABA overuse in the Portuguese prescription database
Ana Sá-Sousa (Porto, Portugal), Rute Almeida, Alberto Freitas, João Almeida Fonseca

Association between vitamin D deficiency and risk of uncontrolled asthma development
Vitaly I. Kupaev (Samara, Russian Federation), Maria S. Nurdina

Comparison of CAT and mMRC in terms of assessing symptom status in stable COPD patients
Esra Ertaç Yazar (Istanbul, Turkey), Etil Yelda Niskarioglu, Burcu Yigitbas, Tugba Mandal

COPD Assessment test (CAT) Score as a predictor of severe exacerbations in veterans
Andrea Guerrero Cignarella (Miami, United States of America), Parvaneh Baghaei Shiva, Katherine Tovar, Gisel Urdaneta, Isabel Vital, Gregory Holt, Mehdi Mirsaeidi, Rafael Calderon-Candelario, Michael A Campos

The Capacity of Daily Living during the Morning (CDLM) questionnaire: Evaluating the impact of morning symptoms in COPD
Alexa Nuñez (Barcelona, Spain), Miriam Barrecheuguren, Myriam Calle, Ricard Casamor, Marc Miravitlles, Cristina Esquinas

Effect of treatment on morning symptoms in COPD. Correlation between doctors and patients in the evaluation of symptoms. SINCON Study
Adolfo Balora Villar (Pontevedra, Spain), Juan Antonio Trigueros, Jose Miguel Rodriguez Gozalez-Moro, Estefania Sanjuan, Ricard Casamor
PA4008 Qualitative research evaluating patient preferences for a new COPD treatment
Melanie Schroeder (Middlesex, United Kingdom), Lina Eliasson, Katie Hall, Jake Macey, Sophia Bracey, Paul W Jones, Afisi S Ismaila

PA4009 Differences in medication adherence in chronic obstructive pulmonary disease associated with beliefs on medications
Huseyin Arikan (Istanbul, Turkey), Dildar Duman, Zeynep Uslu, Derya Kocakaya, Emel Eryukssel

PA4010 Patients’ adherence to COPD therapy
Ilaria Aredano (Parma (PR), Italy), Francesca De Blasio, Davide Dassetto, Michela Bellochiglia, Caterina Bucca

PA4011 Relationships among depression, pain, patient activation, and fatigue in patients with COPD
Jungeun Lee (Kingston, United States of America), Huong Nguyen, Vincent Fan

PA4012 Chronic pain in patients with chronic obstructive pulmonary disease
Malek Chaabouni (Sfax, Tunisia), Feki Walid, Ketata Wajdi, Moussa Nadia, Bahloul Najla, Msaad Sameh, Kotti Amina, Ayadi Hajer, Rekik Karim, Yangui Ilhem, Kammoun Samy

PA4013 Assessing activity-related cognitions in chronic obstructive pulmonary disease (COPD): validation of the activity cognitions instrument (ACI)
Milou Looijmans (Groesbeek, Netherlands), Inge J Van Nunen, Mariska P M Klaassen, Jeannette B Peters, Jan H Vercoulen

PA4014 French translation and validation of the C- and D-PPAC PROactive questionnaires to measure physical activity in patients with chronic obstructive pulmonary disease.
Trija Vaidya (NANTES, France), Véronique Thomas-Ollivier, François Hug, Alain Bernady, Frédéric Costes, Hakima Ouksel, Claire De Bisschop, Arnaud Chambellan

PA4015 Patient And Carer Perceptions Regarding The Advanced Lung Disease Service – A New Model Of Integrated Respiratory And Palliative Care
Natasha Smallwood (Melbourne (VIC), Australia), Thomas Moran, Michelle Thompson, Brian Le, Louis Irving


PA4017 Correlation of sleep quality and psychological well-being with BODE index and quality of life in stable COPD patients
Krishna K Sharma (Jaipur (Rajasthan), India), Titiksha Choyal

PA4018 The impact of low forced vital capacity on comorbidities and behavior restriction in chronic obstructive pulmonary disease
Noeul Kang (Seoul, Republic of Korea), Sun Hye Shin, Sunhaye Gu, Seong Yong Lim, Juhee Cho, Hyun Il Gil, Hye Yun Park, Hyun Lee

PA4019 Differences in psychological stage and functional capacity between caregivers of patients with COPD and heart failure in accordance with their levels of perceived self-efficacy

PA4020 Drivers of respiratory symptoms in COPD patients
Kate Johnson (Vancouver (BC), Canada), Abdollah Safari, Wan Tan, Jean Bourbeau, Mohsen Sadatsafavi

PA4021 PAIN AND FRAILTY IN COPD PATIENTS: RELATIONSHIP AND IMPACT ON WELLBEING AND HEALTH STATUS
Sabina Antoniu (Iasi (Iasi), Romania), Anca Apostol, Robbert Gobbens

PA4022 Physicians’ perceptions on gender differences in the diagnosis and management of COPD
Chantal Raherison-Semjen (Pessac, France), Karen Mezzi, Kostas Kostikas, Alexander Mackay, Dave Singh

PA4023 Impact of a educational program in the use of inhalers in patients derived to a respiratory rehabilitation unit
Pablo Mariscal Aguilar (Madrid, Spain), Jose Andres Tenes Mayen, Teresa Torralba, Rodolfo Alvarez Sala-Walther, Mercedes Marín, Carlos Carpio, Esther Zamarron De Lucas

TP-05  Session 426  12:50 - 14:40
Thematic poster: COPD and extrapulmonary comorbidities
| PA4024 | A study of the comorbidity of COPD and type 2 diabetes mellitus | Tatyana Makarova (Moscow, Russian Federation), Vyacheslav Kobylyansky, Olga Pivovarova, Anna Sotnikova |
| PA4025 | Role of BMI in the clinical course of COPD patients with type 2 diabetes mellitus | Plamen Titorenkov (Sofia, Bulgaria), Milena Encheva, Aleksandra Chervenivanova, Petar Chipew, Dora Marinova, Kosta Kostov |
| PA4026 | The "sweet" side of the Overlap Syndrome | Silvano Dragonieri (Bari (BA), Italy), Giorgio Castellana, Lorenzo Marra, Valentina Di Lecce, Pierluigi Carratù, Onofrio Resta |
| PA4027 | Metformin predispose acute exacerbations of COPD patients with insulin-dependent diabetes mellitus | Kuan-Yuan Chen (Taipei, Taiwan), Li-Nien Chien, Chien-Hua Tseng, Kang-Yun Lee |
| PA4028 | The effect of comorbidities on long-term survival in COPD | Selma Aydoğan Eroğlu (İstanbul, Turkey), Halil Ibrahim Yakar, Ethem Yıldız, Murat Kavas, Dildar Duman, Hakan Günen |
| PA4029 | Comorbidities in COPD - Impact on mortality | Sara Xavier pires (Porto, Portugal), Penêlope Almeida, Márcia Cravo, Maria Inês Costa, Tiago Oliveira, Sara Vieira Silva, Pedro Leuschner |
| PA4030 | Effect of comorbidities on severity and clinical parameters of COPD | Seoung Ju Park (Jeonju, Republic of Korea), Seung Yong Park, Chin Kook Rhee, Kwang Ha Yoo |
| PA4031 | Evaluation of Co-morbidities among Different Chronic Obstructive Pulmonary Disease Phenotypes | Mohamed Shahat Badawy (Luxor, Egypt), Alaa Rashaad, Rasha Mohamed |
| PA4032 | COPD: CT Thorax - friend or foe': Clinical utility of CT in diagnosing co-morbidities. | Sundeep Kaul (London, United Kingdom), Akanksha Vohra, Samavia Raza, Paras Dalal |
| PA4033 | Effects of comorbidities on physical activity in chronic obstructive pulmonary disease | Makoto Yoshida (Fukuoka, Japan), Atsushi Moriwaki, Hisayuki Osoreda, Tetsuya Hiramoto, Tomoaki Iwanaga, Hiromasa Inoue |
| PA4034 | A MULTILATERAL APPROACH TO COPD COMORBIDITIES | Alexandru Corlateanu (Chisihau, Republic of Moldova), Serghei Covantev, Eugenia Scutaru, Doina Rusu, Olga Corlateanu, Victor Botnaru |
| PA4036 | Medication Effect on Acute Exacerbation and Mortality in Patients with Coexistent COPD and GERD | Vincent Yi-Fong Su (Taipei, Taiwan) |
| PA4037 | The association of respiratory health and cardiovascular risk with structural brain disease in patients with COPD | Daniel Burrage (London, United Kingdom), Sachelle V Ruickbie, Mohani P K Bajaj, Cathy A Spilling, James W Dodd, Thomas R Barrick, Paul W Jones, Emma H Baker |
| PA4038 | Impact of non-alcoholic fatty liver disease on late cardiovascular events and death in Chronic Obstructive Pulmonary Disease | Damien VIGLINO (GRENOBLE, France), Anaïs Plazanet, Sébastien Bailly, Meriem Benmerad, Ingrid Julian-Desayes, Renaud Tamisier, Vincent Leroy, Jean-Pierre Zarski, Maxime Maignan, Marie Joyeux-Faure, Jean-Louis Pépin |
| PA4039 | COPD: clinical, personality characteristics and psychological defences in development of disadaptive types of attitude to illness | Yannia Galetskyate (Moscow, Russian Federation), Svetlana Ovcharenko, Ekaterina Nikitenko, Sergey Enikolopov, Beatrice Volel |
| PA4040 | Sex differences in COPD comorbidities | Ilaria Aredano (Parma (PR), Italy), Francesca de Blasio, Davide Dassetto, Francesco Coni, Renza Ambrosano, Anna Maria Rella, Roberta Di Tria, Caterina Bucca |
Clinical characteristics and related risk factors of depression in patients with early COPD
Yong Suk Jo (Seoul, Republic of Korea), Min Hye Kang, Jeong Mi Lee, Seoung Woo Han

Severe mental illness in COPD patients: findings from the primary care 2015-17 COPD audit
Gerasimina Garnavos (London, United Kingdom), Viktoria McMillan, Juliana Holzhauer-Barrie, Noel Baxter, Jennifer Quint, Philip Stone, Christoper M Roberts

Anxiety and depression on exacerbation COPD patients
Juliana Gjerazi (Fier, Albania), Irma Tashi, Jolanda Daka, Jul Bushati, Perlat Kapisyzi

Thematic poster: Functional assessment of COPD

**Disease(s):** Airway diseases, Respiratory critical care, Respiratory infections, Pulmonary vascular diseases, Respiratory infections

**Method(s):** Respiratory intensive care, Surgery, General respiratory patient care, Physiology, Imaging

**Chairs:** Manlio Milanese (Pietra ligure (SV), Italy), Michael Furian (Zürich, Switzerland), Georgios Kaltsakas (Athens, Greece), Lies Lahousse (Ghent, Belgium)

Late Breaking Abstract - Small airway and parenchymal changes are frequent in V/P SPECT of smokers without COPD
Marika Bajc (Lund, Sweden), Linnea Jarenbäck, Kajsa Wiklund, Jaro Ankerst, Ari E. Lindqvist, Leif Bjerner

Late Breaking Abstract - Dietary nitrate supplementation enhances the benefit of pulmonary rehabilitation in people with COPD
Matthew Pavitt (Billingshurst (West Sussex), United Kingdom), Rebecca J Tanner, Adam P Lewis, Sara C Buttery, Bhavin Mehta, Helen Jefford, Katrina J Curtis, Winston Banya, Syed Husain, Karan Satkunam, Dinesh Shrikrishna, William Dc Man, Michael I Polkey, Nicholas S Hopkinson

Late Breaking Abstract - Combined Use of Inspiratory and Expiratory Threshold Pressure Training with Data Monitor in COPD
Xin Chen (Guangzhou (Guangdong), China), Wen-Hui Xu

Late Breaking Abstract - Effects of a new Airway Clearance Technology versus manual physiotherapy in COPD
Florin Dumitru Mihaltan (Bucuresti, Romania), Laurent Morin, Corina Borcea, Ancuta Costantin, Alexandru Pahontu, Lucia Marinescu, Valentín-Caius Cosei

Late Breaking Abstract - Cardio-pulmonary exercise test indicators of stress left ventricle diastolic dysfunction in non-severe COPD patients
Zheina Cherneva (Sofia, Bulgaria), Radostina Cherneva, Dinko Valev, Rosen Petkov, Dimitar Kostadinov

Late Breaking Abstract - Dietary nitrate supplementation increases exercise endurance time in COPD patients using ambulatory oxygen
Matthew Pavitt (Billingshurst (West Sussex), United Kingdom), Adam P Lewis, Sara C Buttery, Bernadette O Fernandez, Monika Mikus-Lelinska, Martin Feelisch, Michael I Polkey, Nicholas S Hopkinson

Using the volumetric capnography method in assessing the functional respiratory status of a patient with COPD
Irina Ponomareva (Ryazan, Russian Federation), Sergei Subbotin, Vladimir Abrosimov

Assessment of the physical capacity in patients hospitalized with COPD
Mārtiņš Pārēns (Riga, Latvia), Madara Tiržīte

Is the “Sit-to-stand test” a good tool for evaluating oxygen desaturation in COPD? A tool for evaluating oxygen desaturation in COPD?
Ana Luisa Fernandes (Matosinhos, Portugal), Zita Camito, Graciete Luís, Inês Neves, Jorge Ferreira, Paula Simão

Maximal voluntary inspiratory breath holding time test in patients with chronic obstructive pulmonary disease
Azza Slim (tunis, Tunisia), Abir Hedhli, Sana Cheikh Rouhou, Noureldhouda Mbarek, Amir Taboubi, Safa Benkhaled, Yassine Ouahchi, Jouda Cherif, Meriem Mjid, Sonia Toujani, Samira Merafi

Multi-night continuous nocturnal oxygen saturation measurements in patients with COPD
Joren Buekers (Mol, Belgium), Jean-Marie Aerts, Jan Theunis, Anouk Vaes, Emilie Wouters, Martijn Spruit, Patrick De Boever

Does the decrease in KCO go typically with DLCO decrease in obstructive pulmonary diseases? The relationship with DLCO, KCO, VA and VA/TLC in patients with COPD
Esra Sönmez (Istanbul, Turkey), Gokhan Erdogan, Hisam Alahdab, Mehmet Atilla Uysal

Cough reflex sensitivity in exacerbations of chronic obstructive pulmonary disease
Peter Siu Pan Cho (London, United Kingdom), Hannah V Fletcher, Irem S Patel, Caroline J Jolley, Richard D Turner, Surinder S Birring
Peripheral muscle strength and COPD assessment test
Guilherme Bianzeno (Botucatu (SP), Brazil), José William Zucchi, Luiz Henrique Soares Machado, Amanda Lais Peralta, Laura Miranda De Oliveira Caraim, Suzana Erico Tanni, Irma Godoy, Renata Ferrari

COPD and Swallowing disorders: Clinical assessment by Fiberoptic Evaluation of Swallowing (FEES)
ANDRES FELIPE VILLABONA-RUEDA (Baltimore, United States of America), Gloria Marcela Estévez Ramírez, Heliberto Paez Quientro, Tania Mendoza Herrera, Olga Rosa Castillo Mier, Xiomara Alarcon Serrano, Jose Fernando Rojas Rodriguez, Jaime Leonardo Chacon Manosalva, Maria Angelica Chacon Manosalva, Javier Enrique Fajardo Rivero

Signs of mental confusion and asterixis in hypercapnic COPD patients are attributable to elevated blood levels of ammonia
Stylianos Michaelides (Athens, Greece), Avgerinos-Romanos Michailidis, George Bablekos, Vlasios Skopas, Nikolaos Trakas, Nikolaos Koulouris

Relationship between the integrity of the cell membrane and hypoxia with hypercapnia in patients with hospitalized cardiopulmonary failure

Postoperative Pulmonary Complications in Bronchial Asthma/Chronic Obstructive Pulmonary Disease/Non-Pulmonary Disease Patients
Mahsa Mirdamadi (Tehran, Islamic Republic of Iran), Hosnollah Sadeghi, Ali Safaei, Mahmoud Salesi

Correlation of spirometric value to 2D ECHO parameters for diagnosis of pulmonary hypertension in COPD
Abhisheka Kumar (Patna (Bihar), India), Deependre Rai

Impact of chronic obstructive pulmonary disease and heart failure on the phase angle in hospitalized subjects

Thematic poster: Biomarkers of COPD

Late Breaking Abstract - Plasma endocan is over-expressed in AECOPD patients: association with lung function decline and apoptosis
Luqai Dai (Chengdu, China), Liu Lian, Tao Wang, Dan Xu, Fuqiang Wen

Late Breaking Abstract - Long-term variability of blood eosinophils in COPD patients by GOLD 2017 staging, and gender bias
Joan B Soriano (Madrid, Spain), Maria T Pastor-Sanz, Elena Garcia-Castillo, Emma Vázquez, Rosa Mar Gómez-Punter, Tamara Alonso, Julio Ancochea

The role of serum IL6 in stable COPD patients
Dora Marinova (Sofia, Bulgaria), Aleksandar Lilov, Yanina Slavova

Blood Eosinophils Correlate With Severe Exacerbations in Frequent Exacerbator Phenotype of COPD
Vipul Jain (Fresno, United States of America), Vipul Jain, Leena Jalota, Vinisha Prajapati, Dennis Allison, Ratnali Jain, Joseph Vempilly

The impact of high eosinophil count on hospitalizations in COPD patients
Burcu Arpinar Yigitbas (Istanbul, Turkey), Elmif Yelda Niksarlıoğlu, Esra Yazar, Lutfiye Kilic, Celal Satici, Seyma Ozden

Changes in urinary biomarkers between stable state and exacerbation of COPD
Ahmed Javid Yousuf (Oxford (Oxfordshire), United Kingdom), Gita Parekh, Annelyse Duvoix, Sarah Parker, Jo Finch, Sarah Glover, Sarah Rees, Vijay Mistry, Liesl Carr, Paul Davis, Keir Lewis, Christopher Brightling

The relationship between serum levels of Surfactant protein D in COPD exacerbation severity and mortality
Fatma Esra Günyaydın (Istanbul, Turkey), Nurdan Kalkan, Gülşah Günlioğlu, Esma Nur Aktepe, Barış Demirkol, Thierry Sibomana, Sedat Altun

VEGF serum levels in COPD patients without pulmonary hypertension – a case control study
Ana Florica Chis (Cluj-Napoca (Cluj), Romania), Olga Soritau, Andreea Catana, Monica Pop
| PA4072 | Blood MCP-1 levels are increased in chronic obstructive pulmonary disease with prevalent emphysema |
| Daniel Giorgi, Paola Abate, Valeria Di Simone, Luigi Gallo, Giuseppe Panza, Antonio Di Stefano |
| PA4073 | Increased serum endotoxin levels as biomarker in acute exacerbations of COPD. |
| Christian Herr, Hombreck (Saar), Germany, Eva Papatsanis, Johanna Classen, Julia Demandt, Marilena Patalong-Dahm, Teresa Stegmaier, Christoph Beißwenger, Giovanna Vella, Felix Ritzmann, Franziska Trudzinski, Thai Dinh, Philipp Lepper, Sebastian Fähndrich, Robert Bals |
| PA4074 | 1 year RV/TLC change as a predictor of long term decline of FEV1 |
| In Ae Kim (Seoul, Republic of Korea), Yong Bum Park, Chink Kook Rhee, Young Il Hwang, Kwang Ha Yoo |
| PA4075 | Exercise-induced desaturation and the functional status of patients with COPD |
| Irina Ponomareva (Ryazan, Russian Federation), Alexey Kosyakov, Vladimir Abrosimov |
| PA4076 | Association of serum uric acid levels and outcomes of patients with Chronic Obstructive Pulmonary Disease (COPD) |
| John Ray Galamay (Quezon City, Philippines), Teresita De Guia, Ma. Encarnita Limpin |
| PA4077 | Association of Hypoxia-Inducible Factor (HIF)-1a and Asymmetric Dimethylarginine(ADMA) in patients with COPD and controls. |
| Kruti Upadhya (New Delhi, India), Ashraf Ali, Bijay Pattnaik, Anurag Agarwal, Randeep Guleria |
| PA4078 | Differences in expression profiles of serum microRNAs in women with mild to moderate COPD by biomass smoke exposure and tobacco smoke. |
| Yadira Velasco (CDMX, Mexico), Julia Pérez, Martha Montaño, Oliver Pérez, Ivette Buendia, Ramcés Falfán, Victor Ruiz, Carlos Ramos |
| PA4079 | Expression and function of IL-20 cytokines and their receptors on the airway epithelium during Chronic Obstructive Pulmonary Disease (COPD) |
| Olivia BARADA (LILLE, France), Gwenola Kervoaze, Christelle Coraux, Myriam Polette, Gaetan Deslée, Muriel Pichavant, Philippe Gosset |
| PA4080 | IL-18 and IL-10 in patients with occupational COPD, depending on the presence or absence of hypertension |
| Anastasiya Melenevych (Kharkov, Ukraine) |
| PA4081 | Relationship of HRCT-diagnosed emphysema and clinical features in COPD. |
| Vanya Kostadinova (Varna, Bulgaria), Yordan Radkov, Temenuga Stoeva, Darina Miteva |
| PA4082 | Interdisciplinary Pilot Project on Emphysema Quantification and Bronchial Wall Thickness assessment in COPD patients |
| Andrea Vukić Dugac (Zagreb, Croatia), Blanka Cuk, Kristina Krpina, Ante Marušić, Ivona Markelić, Sanja Popović Grle |

TP-08 Session 429 12:50 - 14:40

**Thematic poster: COPD exacerbations and bronchiectasis**

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections

**Method(s):** Respiratory intensive care, Cell and molecular biology, Imaging, Physiology, Public health, General respiratory patient care, Epidemiology

**Chairs:** Melissa McDonnell (Oranmore (Co Galway), Ireland), Yelda Varol (Izmir, Turkey), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Miriam Barrecheguren Fernandez (Barcelona, Spain)

**Late Breaking Abstract - Comparative real world effectiveness of triple therapy versus dual bronchodilation in frequently exacerbating patients with COPD**

Jaco Voorham (Singapore, Singapore), Marjan Kerkhof, Mario Sciri, Stefano Vezzoli, Ilaria Valente, Alberto Papi, Claus Vogelmeier, David Singh, Leonardo Fabbri, Janwillem Kocks, David Price

**Late Breaking Abstract - Effect of obesity on progression of smokers without airflow obstruction to COPD**

Mehrdad Arjomandi (San Francisco, United States of America), Siyang Zeng, Chiung-Yu Huang, Paul Blanc

**Late Breaking Abstract - The association of osteoporosis with mortality and symptom burden in a COPD cohort. The HUNT Study, Norway.**

Sigrid Anna Vikjord (Levanger, Norway), Ben Michael Brumpton, Xiao-Mei Mai, Laxmi Bhatta, Arnulf Langhammer

**Late Breaking Abstract - Does medication exacerbate comorbidities in chronic obstructive pulmonary disease? A prevalence study of neuroleptic intake**

Vincent Cabibel (Montpellier, France), Nelly Héraud, Alain Varray, François Alexandre
Late Breaking Abstract - Characteristics and treatment of patients with comorbid COPD and heart failure
David Price (Singapore, Singapore), Ronan Ryan, Robert Fogel, Hui Cao, Janwillem W.H. Kocks, Piergiuseppe Agostoni, Chin Kook Rhee, John R. Hurst, Rupert Jones, Konstantinos Kostikas

Late Breaking Abstract - Safety and immunogenicity of non-typeable H. influenzae (NTHi) and M. catarrhalis (Mcat) adjuvanted vaccines in adults
Marco Testa (Siena, Italy), Pierre Van Damme, Geert Leroux-Roels, Corinne Vandermeulen, Iris De Ryck, Annaelisa Tasciotti, Marie Dozot, Luca Moraschini, Ashwani Kumar Arora

Late Breaking Abstract - Safety and immunogenicity of non-typeable H. influenzae (NTHi) adjuvanted vaccine in older adults with chronic obstructive pulmonary disease (COPD)
Marco Testa (Siena, Italy), Tom Wilkinson, Stuart Schembri, Christopher Brightling, Nawar Dier Bakerly, William Macnee, Lars Rombo, Jan Hedner, Martin Allen, Paul Walker, Iris De Ryck, Annaelisa Tasciotti, Daniela Casula, Ashwani Kumar Arora

Late Breaking Abstract - Overlap of SGRQ and CAT-defined chronic mucus hypersecretion in the SPIROMICS cohort: implications for digital health
Hana Müllerová (Uxbridge (Middlesex), United Kingdom), Marni Stott-Miller, Bruce E Miller, Aili L Lazaar, Maggie Tabberer, Céline El Baou, Tom Keeley, Fernando J Martinez, Meilan K Han, Ruth Tal-Singer

Late Breaking Abstract - The Aetiology of Acute Exacerbations in Chronic Obstructive Pulmonary Disease (AECOPD): A Systematic Literature Review (SLR)
Hana Müllerová (Uxbridge (Middlesex), United Kingdom), Jessica Willson, Eveline Bunge, Katie Pascoe, Denisa King

Late Breaking Abstract - Bronchiectasis in exacerbation of COPD: differences between genders

Late Breaking Abstract - Chronic obstructive pulmonary disease (COPD) patients with bronchiectasis: clinical features?
Abdi Ali (Wrexham (Clwyd), United Kingdom), Javed Ibrahim, Junaid Ali, Muneer Radzali, Jamal Ahmed, Harmesh Moudgil, Emma Crawford, Annabel Makan, Koottalai Srinivasan, Nawaid Ahmad

Late Breaking Abstract - Clinical and exacerbation characteristics may predict treatment response in acute exacerbations of COPD
Breda Cushen (Dublin 11, Ireland), Garrett Greene, Elaine Mac Hale, Lorraine Tompkins, Imran Sulaiman, Fiona Boland, Emer Kelly, Richard W Costello

Late Breaking Abstract - Pneumonia in Chronic Obstructive Pulmonary Disease (COPD) - is it a separate entity?
Monica Corso Pereira (Campinas (SP), Brazil), Silvia Ms Silva Doria, Marcos Melo Moreira, Paulo Roberto Tonidandel, Eduardo Melo De Capitani, Ilma A Paschoal

Late Breaking Abstract - Definition and characterization of an inflammatory phenotype in patients with COPD - results from the COSYCONET study
Franziska Trudzinski (Homburg (Saar), Germany), Frederik Seiler, Sebastian Fähndrich, Henrik Watz, Rudolf A. Jörres, Armin Koch, Tobias Welte, Claus F. Vogelmeier, Frank Biertz, Robert Bals

Late Breaking Abstract - Predictors of lung function decline: a retrospective study in COPD patients
Francesco Spelta (Verona (VR), Italy), Michela Pizzini, Lucia Cazzoletti, Valentina Rigoni, Francesco Zamboni, Pietro Ferrari, Giorgio Zambon, Marcello Ferrari

Late Breaking Abstract - Pathogenic bacteria for exacerbation of Chronic Obstructive Pulmonary Disease
Yan Chen (Richmond (VIC), Australia), Lin Chen, Xue He, Tiao Li, Lijuan Luo

Late Breaking Abstract - Cytokines profile of blood and sputum in COPD exacerbation
Sophia V. Nesterovich (Tomsk, Russian Federation), Ekaterina B. Bukreeva

Thematic poster: Sarcoidosis, interstitial lung diseases and various clinical problems

Method(s): Endoscopy and interventional pulmonology, Respiratory intensive care, Surgery, Cell and molecular biology, General respiratory patient care, Imaging

Chairs: Maurizio Marvisi (Cremona (CR), Italy), Philippe Camus (Dijon, France), Sara Ramponi (Cingia de’ Botti (CR), Italy), Veronica Affieri (Parma (PR), Italy)
PA4101 Late Breaking Abstract - The effectiveness of respiratory hot clinic service in two North West centers, UK
Aziza Abdul-Rashid, Yirong Lum, Sunitha Bethireddy, Thomas Lightburn, Ran Wang, Sharada Gadur, Syed Mehdi

PA4102 Evaluation of the relationship between personality characteristics with emotional intelligence in sarcoidosis patients
Mitra Safa (TEHRAN, Islamic Republic of Iran), Arda Kiani, Fatemeh Ghassem Boroujerdi, Bamdad Mirab Zadeh Ardekani

PA4103 Mycophenolate Mofetil as a corticosteroid- sparing agent in patients with sarcoidosis.
Anastasia Papaporfyriou (Mandra, Greece), Efrosyni D. Manali, Georgia Papadaki, Andriana I. Papaoannou, Ioanna Korbiella, Alina Giouleka, Maria Kalliier, Lykourgos Kolilekas, Christianna Triantafyllidou, Spyridon Papiris

PA4104 Thoracic sarcoidosis with heart damage
Andrey Ilin (Blagoveshchensk (Amur Oblast), Russian Federation), Anatoliy Lenshin, Juliay Perelman

PA4105 Alpha-1 Antitrypsin Deficiency at Pulmonology appointment in a central hospital
Marta Sofia Nobre Pereira (S. Brás de Alportel, Portugal), Claudia Guerreiro, Djamila Neves, Vanda Areias, Karl Cunha, Helena Ramos, Bruno Santos, Jose Contreras, Isabel Ruivo, Fernanda Nascimento, Ulisses Brito

PA4106 Preparatory grief, anxiety and depression in IPF patients and their caregivers: A fuller picture of the psychological impact of IFP.
Debra Reynolds-Sandford (Adelaide (SA), Australia), Hubertus Jersmann, Paul Reynolds, Bernhard Baune

PA4107 Antimicrobial peptides in bronchoalveolar lavage in patients with chronic lung diseases
Kristel Svalland Knudsen (Bergen, Norway), Sverre Lehmann, Rune Gronseth, Eli Nordeide, Abraham C. Van Der Linden, Pieter S Hiemstra, Tomas Mikal Lind Eagan

PA4108 Tracking crackles of Interstitial Lung Disease during sleep.
Gary Baker (Armidale (NSW), Australia), Mark Norman, Pierre Lonchampt, Colin Sullivan

PA4109 Follow up of high-risk individuals with lung nodules identified on a CT-screening programme
Marie Stolbrink (Liverpool (Merseyside), United Kingdom), Bryony Sedgwick, Rachel Penfold, Laura Root, Gareth Jones

PA4110 Evaluation of Pulmonary Complication in Patient with Valvular Heart Surgery: Clinical and Laboratory Significances
Hasan Allah Sadeghi (Tehran, Islamic Republic of Iran), Behshid Ghadroost

PA4111 Antimicrobial peptides in bronchoalveolar lavage in patients with chronic lung diseases
Kristel Svalland Knudsen (Bergen, Norway), Sverre Lehmann, Rune Gronseth, Eli Nordeide, Abraham C. Van Der Linden, Pieter S Hiemstra, Tomas Mikal Lind Eagan

PA4112 Black pleural effusion as the presenting feature of lung cancer.
Tiago Alfaro (Coimbra, Portugal), V Fernandes, C Cruz, C R Cordeiro

PA4113 Care in the Last Days of Life and Carer Perspectives
Ahmed Haque (Gillingham, United Kingdom), Lisa Vincent-Smith, Larisa Crisan, Andradamaria Bianu

PA4114 Creating a successful medical team using Whatsapp(TM)
Radu Adrian Crisan-Dabija (Iasi, Romania), Traian Mihaescu

PA4115 Cavitary nodules in rheumatoid arthritis patients and their prognosis
Derya Kocakaya (Istanbul, Turkey), Ayşin Aksoy, Yasemin Yaşıcınkaya, Nevşin İnanç, Emel Eryüksel, Sait Karakurt

PA4116 Respiratory manifestations in patients with systemic vasculitis with renal involvement in a tertiary hospital
Stamatoula Tsikrika (Athens, Greece), Vasiliki Papanikolaou, Christalleni Christodoulidou, Stamatoula Gardikiotis, Christina Vourlakou, Paraskevi Katsaounou, Spiros Zakynthinos, Theofanis Apostolou

PA4117 Primary Pulmonary Amyloidosis
Pelin Korkmaz (İstanbul Zeytinburnu, Turkey), Murat Kiyik, Aysin Durmaz, Naciye Mutlu, Huseyin Cem Tigin, Halide Nur Ürer, Kemal Karapinar

PA4118 Association between diffusion capacity and endothelial function in patients with idiopathic pulmonary fibrosis
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<tr>
<th>Thematic poster: Pulmonary rehabilitation: exercise training, body composition, physical activity and other aspects</th>
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<td><strong>Disease(s):</strong></td>
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<tr>
<th>PA4120</th>
<th>RELATIONSHIP BETWEEN SIX-MINUTE WALK DISTANCE, PULMONARY FUNCTIONS AND PATIENT CENTERED OUTCOMES IN PATIENTS WITH PULMONARY HYPERTENSION</th>
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<tr>
<td>Pinar Odevoglu (Istanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Gulfer Okumus</td>
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<th>PA4121</th>
<th>Impact of Community Respiratory Team on individual hospital admissions and region based improvements.</th>
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<tr>
<td>Jennifer Macfie (Glasgow (Glasgow), United Kingdom), Katy Levin, Marianne Milligan, Deborah Anderson, Hannah Bayes, David Anderson</td>
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<th>PA4122</th>
<th>2 days at the sea-side! Effects on anxiety and depression scores, Health Locus of Control (HLOC) and Patient’s Global Impression of Change (PGIC) in COPD patients.</th>
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<td>Irene Salamun (Liège, Belgium), Delphine Nguyen Dang, Hélène Vancauwenberge, Audrey Vanhaudenhuyse, Hervé Debatty, Jean-Louis Corhay, Renaud Louis</td>
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<th>PA4123</th>
<th>Physical activity evolution measured by actimeter in COPD patients after a pulmonary rehabilitation.</th>
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<td>Trija Vaidya (NANTES, France), Camille Badatchef, Agnes Bellocq, Frédéric Costes, Hakima Ouksel, Claire De Bisschop, Arnaud Chambellan</td>
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<th>PA4124</th>
<th>Association between muscle wasting and muscle strength in patients who developed severe sepsis and septic shock.</th>
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<tr>
<td>Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Rodrigo Borges, Francisco Soriano</td>
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<th>PA4125</th>
<th>Low FFMI in COPD patients undergoing pulmonary rehabilitation</th>
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<tr>
<td>Tomaz Hafner (Kranj, Slovenia), Irena Sarc, Anja Groselj, Ziva Zdolsek, Barbara Zupanc, Tatjana Kosten</td>
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<th>PA4126</th>
<th>Prevalence of sarcopenia in Brazilian hospitalized and community-dwelling elderly</th>
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<tr>
<td>Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Rodrigo Borges, Daniel Correa, Mariucha Borges, Lourdes Sampaio</td>
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<th>PA4127</th>
<th>Inspiratory muscle training with SpiroTiger-MEDICAL® in patients with diaphragmatic dysfunction</th>
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<tr>
<td>Claudia Crimi (Catania (CT), Italy), Raffaele Campisi, Teresa Augelletti, Enrico Helfler, Antonio Ragusa, Nunzio Crimi</td>
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<th>PA4128</th>
<th>Understanding utilisation of Pulmonary Rehabilitation in Primary care: an online survey</th>
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<tr>
<td>Jonathan P Fulld (Cambridge (Cambridgeshire), United Kingdom), Frances Early, Hena Haqué, Patricia Wilson, Ian Wellwood, John Benson, Christi Deaton</td>
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<th>PA4129</th>
<th>Pedometer intervention to improve daily physical activity and QOL in patients with stable COPD including those with ACO.</th>
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<td>Yuko Sano (Tokyo, Japan), Rokuro Matsuoka, Yoko Sato, Shinobu Kimura, Syoji Mihara, Hajime Kurosawa</td>
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<th>PA4130</th>
<th>Evolving outcomes of tracheostomised patients requiring prolonged mechanical ventilation before and after implementation of a respiratory high-dependency unit in a tertiary care hospital.</th>
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<td>Bertrand Herer (Briis Sous Forges, France), Catherine Karanfilovic, Henri Maas, Hélène Jaillet, Christian Darné, Françoise Haniez</td>
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<th>PA4131</th>
<th>Comparative assessment of the qol specific parameters in children with bronchial asthma with standard pharmacotherapy, and in additional course of physiotherapy in the pool</th>
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<td>Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Lilija Ilyinichna Mazur, Vasilij Fedorovich Piatin, Igor Ivanovich Berezin, Egor Dmitrievich Mokin, Artem Konstantinovich Sergeev</td>
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<th>PA4132</th>
<th>Eosinophilic ratio in COPD and outcomes in pulmonary rehabilitation</th>
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<td>Mateus Schneider (Porto Alegre, Brazil), Daniela Gravina, Gabriel Siebiger, Lucas Carlesso, Juliessa Florian, Scheila Machado, Monica Oliveira, Paulo Teixeira</td>
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<th>PA4133</th>
<th>Effectiveness of a four-week rehabilitation program on changes in heart rate variability and physical performance in chronic obstructive pulmonary disease.</th>
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<td>Janos Tamas Varga (Budapest, Hungary), Botond Szucs, Mate Petrekansits</td>
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<tr>
<th>PA4134</th>
<th>Post-exercise training serum from COPD patients induces atrophy of healthy human myotubes in vitro</th>
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<tr>
<td>Matthias Catteau (Montpellier, France), Farès Gouzi, Léo Blervaque, Emilie Passerieux, Marine Blaquière, François Bughin, Nelly Héraud, Jacques Mercier, Maurice Hayot, Pascal Pomiès</td>
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No single system of Pulmonary Rehabilitation delivers for all Patients with COPD?
Michael Apps (Brentwood, United Kingdom), Kelly-Ann Keeling, Carole Goodrich, Horania Olympio-Anang, Irene Young, Anna Kopacz, Kiran Sanger, Jan Minter, Tracy Gisby

Oxygen wristbands, a visual aid to aid patient safety
Saagar Patel (Manchester (Greater Manchester), United Kingdom), Jaclyn Proctor, Saffa Lakehal, Saif Haddad, Jenifer Marlow, Alex Jackson, Sonja Walker, Mithun Murthy

Challenges faced by Pulmonologists in India in management of severe obstructive airways diseases (SOADs).
Sushmeeta Chhowala (Mumbai (Maharashtra), India), Komalkirti Apte, Sushma Jadhav, Jaideep Gogtay, Sundeep Salvi

Influence of hypercapnia on the effect of non invasive ventilation during exercise in COPD patients
Pierre Labeix (Saint-Etienne, France), Mathieu Berger, Isabelle Court Fortune, Daniella Muti, Stephanie Ballereau-Chomette, Frederic Costes

The effect of inspiratory muscle training on lung hyperinflation in COPD patients.
Natalia Meshcherykova (Moscow, Russian Federation), Andrey Belevsky, Alexander Cherniak

The efficiency of pulmonary re-rehabilitation
Ebru Karaçay Yeşioloğlu (Ankara, Turkey), İpek Candemir, Pınar Ergün, Dicle Kaymaz, Neşe Demir, Fatma Şengül

The effect of community lung rehabilitation guidance on the quality of life of patients with COPD.
Fangbo Zhao (Changchun (Jilin), China), Shuang Wang, Hongjing Lin

Severe legs symptoms at the end of a 6-min walk test: evidence of low physical activity in COPD?
Clara Martín Ontinyuél (Sant Cugat del Vallès (Barcelona), Spain), Anna Rodó-Pin, Antonio Sancho Muñoz, Concepción Ballano Castro, Laura Gutiérrez Marín, Lluis Molina Ferragut, Joaquim Gea Guiral, Diego Agustín Rodríguez Chiaradia

Obstructive sleep apnea syndrome in cardiac rehabilitation patients
David HUPIN (Saint-Etienne, France), Vincent Pichot, Mathieu Berger, Jérémy Raffin, Pierre Labeix, Delphine Maudoux, Jean-Claude Barthélémy, Frédéric Roche

Objectively measured physical activity and sedentary behaviour of 287 individuals with COPD before starting pulmonary rehabilitation
Konrad Schultz (Bad Reichenhall, Germany), Wolfgang Geidl, Johannes Carl, Samuel Cassar, Nicola Leibert, Michael Wittmann, Rupert Wagner, Klaus Pfeifer

Outcomes post hip fracture for patients with COPD
Lewis Buss (Nottingham, United Kingdom), Tricia Mckeever, Jessica Nightingale, Ralph Akyea, Benjamin Ollivere, Iain Moppett, Charlotte Bolton

Applying the ESPEN definition of Malnutrition in patients with stable Chronic Pulmonary Obstructive Disease: associations with Mortality and Healthcare use at 2 years
Ester Marco Navarro (Barcelona, Spain), Monique Messaggi-Sartor, Vanessa Dávalos-Yerovi, Anna Guillén-Solà, Esther Barreiro, Diego A. Rodriguez, Eva M. Pascual, Dolores Sánchez-Rodriguez

Impact of initiation of a home oxygen service on oxygen cylinder refills and use of urgent orders
Claire Davey (London, United Kingdom), Emma Barter, Jane Simpson

Effect of Pulmonary Rehabilitation on Functional Exercise Capacity and Hypoxemia in Patients with Interstitial Lung Diseases: a retrospective study
Mauro Maniscalco (Napoli (NA), Italy), Salvatore Fuschillo, Alberto De Felice, Carlo Gaudiosi, Michele Martucci

Anatomical and Functional Repercussions of Sequelae of Pulmonary Tuberculosis: Cross-Sectional Observational Study
Thulio Marquez Cunha (Uberlandia (MG), Brazil), Michelle Godoy Canazza Damian, Debora Scheuchter, Nicholas Godoy Canazza Damian, Maria Aparecida Gonçalves Gomes, Vinicius Pafume De Oliveira, Robinson Sabino Da Silva, Luiz Ricardo Goulart Filho
| PA4150 | Impact of a long-term respiratory rehabilitation program on patients with COPD.  
Pablo Mariscal Aguilar (Madrid, Spain), Jose Andres Tenes Mayen, Yolanda Martinez Abad, Raul Galera, Francisco Garcia Rio, Rodolfo Alvarez Sala-Wallther, Mercedes Marin, Carlos Carpio |
| PA4151 | The effects of pulmonary rehabilitation in patients with Combined Pulmonary Fibrosis and Emphysema (CPFE).  
Andriana Papaioannou (Vrilissia (Athens), Greece), Effrosyni Manali, Panagiotis Lyberopoulos, Anastasia Papaporyfiou, Maria Kallieri, Sotiris Gyftopoulos, Dimitrios Konstantonis, Eleni Stagaki, Georgia Papadaki, Konstantinos Kostikas, Roula Spetsioti, Ioannis Vogiatzis, Argyro Mazioti, Stelios Loukides, Spyros Papis |
| PA4152 | Free diving-based breathing techniques in COPD Rehabilitation  
Morten Borg (Brabrand, Denmark), Tue Thastrup, Kurt Larsen, Ole Hilberg, Anders Løkke |
| PA4153 | Is integrated pulmonary and heart failure rehabilitation effective and safe in primary care?  
Alex Woodward (Leicester (Leicestershire), United Kingdom), Sudip Ghosh, Gillain Doe, Dave Clarke, Noel O’Kelly |
| PA4154 | Relationship between functional capacity, dynamic and static muscle function assessments in people with Chronic Obstructive Pulmonary Disease (COPD)  
Sarah Ghépine (Québec (QC), Canada), Erik Frykholm, André Nyberg, Kim-Ly Bui, Francois Maltais, Didier Saey |
| PA4155 | What are the determinants in Patient Activation Scores in COPD?  
Freddy Frost (Liverpool, United Kingdom), Sarah Sibley, Alison Healey, Sam Pilsworth, Dennis Wat |
| PA4156 | Augmented reality glasses as a new tele-rehabilitation tool for home use: patients’ perceptions and expectations  
Jose Cerdán de las Heras (Aarhus C, Denmark), Mikko Tulppo, Antti Kiviniemi, Ole Hilberg, Anders Lokke, Simo Ekholm, Elisabeth Bendstrup |
| PA4157 | Effectiveness of pulmonary rehabilitation initiated after exacerbation of Chronic Obstructive Pulmonary Disease  
Ayşe Arzu Yorgancıl (İzmir, Turkey), Tuğba Göktalay, Lale Cerrahoğlu, Yavuz Havlucu, Necati Balci |
| PA4158 | Association of caregiver burden and depression in caregivers of patients with chronic respiratory failure secondary to advanced and end stage lung disease  
Sehnaz Olgu Yıldızeli (İstanbul, Turkey), Huseyin Arikan, Umut Kasapoglu, Derya Kocakaya, Emel Eryuksel, Berrin Ceyhan, Saat Karakurt |
| PA4159 | Patients profile and pulmonary rehabilitation in interstitial lung disease  
Genevieve Courteau Godmaire (Montreal, Canada), Mélinha Lalande-Gauthier, Bruno-Pierre Dubé, Julie Morisset, Claude Poirier |

**TP-12  
Session 433  
12:50 - 14:40**

**Thematic poster: Use of stents for tracheal stenosis**

- **Disease(s):** Airway diseases, Pulmonary vascular diseases, Thoracic oncology, Respiratory infections, Respiratory infections
- **Method(s):** General respiratory patient care, Respiratory intensive care, Imaging, Surgery, Endoscopy and interventional pulmonology
- **Chairs:** Johannes M.A. Daniels (Amsterdam, Netherlands), Jean-Michel Vergnon (Saint-Etienne, France), Kaid Darwiche (Essen, Germany), Charles-Hugo Marquette (Nice, France)

| PA4160 | Long-term results of bronchoscopic cryotherapy for post-intubation tracheal stenosis  
Evangelos Balis (Zografou (Athens), Greece), Konstantinos Kotsifas, Nikolaos Tatsis, Angeliki Papanikolau, Stavroula Bouila, Giolina Chrysou, George Boulabasokos |
| PA4161 | Comparison of silicon and metallic bifurcated stents in patients with malignant airway lesions  
Cengiz Özdemir (Malatya, Turkey), Sinem Nedime Sökücü, Levent Dalar |
| PA4162 | First Experience with Endobronchial Microwave Ablation (eMWA) of Malignant Airway Stenoses  
Marco Trigiani (Ghedi (BS), Italy), Margherita Innocenti, Sofia Romani, Michela Bezzi |
| PA4163 | Peak Expiratory Flow decrease signals relapse in patients with post intubation tracheal stenosis.  
Vassiliki Kossivaki (Athens, Greece), Philip Emmanouil, Vlasios Vitsas, Nikolaos Koufos, Ioannis Athanasopoulos, Nikolaos Koulouris, Grigorios Stratokas |
Omar Hidalgo Martinez (La Paz, Bolivia), Rodrigo Pacheco, Rita Villalobos |
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<td>PA4165</td>
<td>The predictors of liberation form mechanical ventilation in patients with acute respiratory failure due to malignant central airway obstruction after metallic airway stenting by flexible bronchoscopy</td>
<td>Wen-Chien Cheng (Taichung, Taiwan), Chi-Hen Tu, Biing-Ru Wu, Chi-Hu Chen, Wei-Chun Chen, Wei-Chih Liao, Chia-Hung Chen</td>
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<td>PA4166</td>
<td>Bronchoscopic treatment of postintubation tracheal stenosis – A 20 year experience</td>
<td>Cláudia  Andrea Silva Freitas (Villa Nova de Gaia, Portugal), Filipa Soares Pires, Adelina Amorim, Maria Sucena, António Morais, Gabriela Fernandes, Adriana Magalhães</td>
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<td>PA4167</td>
<td>Biodegradable polydioxanone stent in the treatment of post-intubation and post-tracheotomy stenosis.</td>
<td>Ludek Stehlík (Praha 4, Czech Republic), Vladislav Htyech, Pavel Horazdovsky, Martina Vasakova</td>
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<td>PA4168</td>
<td>bronchoscopic cryo-ablation of endobronchial lung cancer: predictors of recanalization.</td>
<td>Ahmed Shawky Ebrahim (Tanta, Egypt)</td>
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<td>PA4169</td>
<td>A new metallic stent to treat benign lobar bronchus stenosis</td>
<td>Kaid Darwiche (Essen, Germany), Ruediger Karpf-Wissel, Christian Taube, Faustina Funke, Jane Winantea</td>
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<td>PA4170</td>
<td>Interventional bronchoscopy for malignant central airway obstruction: a 7 years cohort study in a french university hospital</td>
<td>FLORENT THEVENET (DIJON, France), Nicolas Favrot, Ayoub Zouak, Marjolaine Georges, Pascal Foucher, Philippe Camus, Philippe Bonnauaud</td>
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<td>PA4171</td>
<td>Bronchoscopic therapy of tracheal stenosis: comparative study of two periods.</td>
<td>Vítězslav Kolek (Olomouc, Czech Republic), Edita Matlochová, Marek Szkorupa, Petr Jakubec, Stanislav Losse, Jaromir Zatloukal</td>
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<td>PA4172</td>
<td>Comparison of two groups of patients with benign airway stenosis from 1998 - 2003 and 2014 - 2016 years</td>
<td>Miloslav Marel (Praha 1, Czech Republic), Martin Trefny, Frantisek Petrík, Dmitry Rakita, Jana Kotrbouva, Libor Fila</td>
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<td>PA4173</td>
<td>Video case: Induction of a hydrothorax and retrograde methylene blue (MB) instillation to detect a bronchopleural fistula (BPF)</td>
<td>Øystein Olaug Stubhaug (Gjøvik, Norway), Astrid Kravdal</td>
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<td>PA4174</td>
<td>Urgent airway management - experience of an interventional bronchoscopy team</td>
<td>Daniela Patricia Cunha Machado (Rio Tinto, Portugal), Catarina Marques, Filipa Lima, Daniel Coutinho, Sérgio Campainha, Ana Oliveira, Sofia Neves, José Almeida</td>
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<td>PA4175</td>
<td>Primary raceemose hemangioma of a bronchial artery complicating bronchial artery to pulmonary artery fistula with giant bronchial artery aneurysms</td>
<td>Susumu Saito (Tokyo, Japan), Yousuke Kamii, Mina Goti, Yuri Baba, Naoko Takahashi, Syuusuke Inaki, Masamichi Takagi, Kazuyoshi Kuwano</td>
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<td>PA4176</td>
<td>Endoscopic treatment of benign tracheal stenosis: brief and long term results 15 years experience of a single centre</td>
<td>Giacomo Cusumano (Catania (CT), Italy), Salvatore Bellofiore, Carmelo Riscicca Lizzio, Rosalia Giarlotta, Alberto Terminella</td>
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**Thematic poster: Bronchoscopy and transthoracic ultrasound**

**Disease(s):** Airway diseases, Thoracic oncology, Respiratory critical care, Respiratory infections, Interstitial lung diseases, Pulmonary vascular diseases, Respiratory infections

**Method(s):** Respiratory intensive care, Imaging, General respiratory patient care, Cell and molecular biology, Endoscopy and interventional pulmonology

**Chairs:** Prashant Nemichand Chhajed (Mumbai, India), Daniela Gompelmann (Heidelberg, Germany), Konstantina Kontogianni (Heidelberg, Germany), Jolanda C. Kuijvenhoven (Leeuwarden, Netherlands)

**Optimal timing of bronchoscopy in patients with hemoptysis**

| PA4177 | Michele Mondoni (Cremona (CR), Italy), Paolo Carlucci, Giuseppe Cipolla, Alessandro Fois, Stefano Gsparini, Silvia Marani, Sara Job, Fausta Alfano, Stefano Centanni, Giovanni Sotgiu |

**Evaluation of ground-glass opacity cases diagnosed by bronchoscopy**

| PA4178 | Kohei Okaifuji (Tokyo, Japan), Atsushi Kitamura, Ryosuke Imai, Hiroaki Kanemura, Kenji Ishii, Ryosuke Tsugitomi, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura |

**Narrow Band Imaging: Advantages over white light bronchoscopy: Single center experience of 500 patients.**

| PA4179 | Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke |
PA4180 Immunocytological study of bronchioloalveolar lavage (BAL) in interstitial lung diseases (ILD) diagnosis
Marioara Simon (Cluj-Napoca (Cluj), Romania), Antonia Harangus, Ioan Simon, Spasoje Popevic, Dragana Jovanovic

PA4181 Late Breaking Abstract - Diagnostic yield of combined pulmonary cryobiopsies and electromagnetic navigation for peripheral pulmonary lesions
Olivier Taton (Brussels, Belgium), Olivier Taton

PA4182 Diagnostic Value of Imprint Cytology Evaluation in Bronchial Biopsies
Filipa Ramalho Fernandes (Alcântara, Portugal), Jorge Dionísio, Didina Coelho, Rüben Roque, Fernando Cunha, Ambrus Szantoth, Duro Da Costa

PA4183 DEEP SEDATION: USE OF TARGET CONTROL INFUSION VERSUS ADMINISTRATION OF PROPOFOL IN CONTINUOUS PERFUSION DURING THE PERFORMANCE OF BRONCOSCOPIES
Blanca De Vega Sanchez (Valladolid, Spain), Ignacio Lobato Astiarraga, Carlos Disdier Vicente, Ana Maria Andrés Porras, Stefania Soldarinì, Claudia Iglesias Perez, Sofia Jauurieta Largo, Maria Jose Chourio Estaba, Ana Isabel Garcia Onieva, Santiago Antonio Juarros Martinez, Vicente Roig Figueroa

PA4184 Pulmonary re-biopsy in non–small-cell lung cancer (NSCLC) locally advanced or metastatic with EGFR-T790M resistance.
Elena Torricelli (Firenze (FI), Italy), Francesca Mazzoni, Valeria Pasini, Margherita Innocenti, Elena Bargagli, Lornezo Corbetta

PA4185 Identification of the pattern of hypoventilation by respiratory signal monitor during the induction of bronchoscopic sedation
Ting-Yu Lin (Taipei, Taiwan), Hau-Tieng Wu, Yu-Ting Lin, Han-Pin Kuo, Yu-Lun Lo

PA4186 Predictors for bronchoalveolar lavage (BAL) recovery rates derived from preprocedural quantified computed tomography (CT)
Frederik Trinkmann (Mannheim, Germany), Joshua Gawlitza, Holger Haubenreisser, Thomas Henzler, Martin Borggrefe, Stefan O. Schoenberg, Ibrahim Akin, Julia D. Michels

PA4187 A randomized trial of navigational endosonographic ultrathin bronchoscopy versus thin bronchoscopy for the diagnosis of peripheral pulmonary lesions
Masahide Oki (Nagoya, Japan), Hideo Saka, Fumihiro Asano, Chiyoe Kitagawa, Yoshihito Kogure, Masahiko Ando

PA4188 Flexible bronchoscopy guided vocal cord biopsy under conscious sedation in special situations: An option to conventional biopsy techniques
Abhinav Singla (Essen, Germany), Sheelu Srinivas, Nivedha Giridharan, Lakshmipriya Srinivasan, Ravindra M. Mehta

PA4189 Transbronchial biopsy from the upper lobes is associated with increased risk of iatrogenic pneumothorax.
Michaela Parezová (Brno 39, Czech Republic), Vladimir Herout, Ivan Cundrle, Kristian Brat

PA4190 Performance of a Novel Flexible 21G Peripheral TBNA Needle in Patients
Anna Szaniec (Redmond, United States of America), Roberto Casal, Alexander Chen, Antoine Delage, Stefano Gasparini, Robb Kruklickis, Stephen Lam, Maren Schuhmann, Alain Tremblay, Nicole Tripician Tanner, Xavier Gonzalez

PA4191 Fiberoptic bronchoscopy in the upper airway
Maria Del Carmen Fernandez Criado (Sevilla, Spain), Nuria Reyes Nuñez, Javier Gallego Borrego, Antonio Javier Cruz Medina, Cristina Carrasco Carrasco, Immaculada Alfageme Michavila

PA4192 LUNG TRANSTHORACIC ULTRASOUND (TUS) ELASTOGRAPHY: USEFULNESS IN THE STUDY OF PLEURO-PULMONARY IMAGES SUSPECTED OF MALIGNANCY
Desiree Lozano Vicente (Murcia, Spain), Javier Perez Pallares, Mercedes Guillamón, María Del Mar Valdivia, Gema Diaz, Francisco Javier Bravo, Pedro García, Rocio Ibañez, Carlos Castillo, Pedro Menchón, Olga Meca, Jose Javier Martinez, Antonio Santa Cruz

PA4193 A prospective cohort study of super selective Bronchial Artery Embolization for hemoptysis: efficacy and the differences between embolic materials
Takashi Niwa (Ichinomiya, Japan), Shota Takehara, Kosuke Isomoto, Ryota Ohtoshi, Tae Iwasawa, Chihiyo Komaki, Takashi Ogura

PA4194 Yield of ultrasound guided Tru-Cut biopsy of peripheral thoracic masses by pulmonologists
Hidayat Ullah (Quetta, Pakistan), Fouzia Raza, Farooq Uighor, Shereen Khan

PA4195 Contrast-enhanced chest sonography in the control of transthoracic cutting type needle biopsies
Teodora Mihalova (Sofia, Bulgaria), Rossen Petkov, Dimitar Kostadinov, Yanina Slavova

PA4196 The diagnostic value of EBUS-TBNA for small mediastinal and hilar lymph nodes.
Upul Pathirana (Kurunegala, Sri Lanka), Damith Rodrigo, Jaymin Morjaria
Thematic poster: Primary care management of asthma

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Public health  General respiratory patient care

**Chairs:** Corina de Jong (Groningen, Netherlands), Janwillem W. H. Kocks (Groningen, Netherlands), Chris Newby (Leicester (Leicestershire), United Kingdom), Björn Ställberg (Uppsala, Sweden)

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**PA4197** The impact of different reference standards when estimating the accuracy of tests for diagnosing asthma
Luke Daines (Edinburgh (Edinburgh), United Kingdom), Hilary Pinnock, Steff Lewis, Aziz Sheikh, Antonius Schneider

**PA4198** Contribution of four pulmonary function tests to diagnosis in the primary care.
Maria Gabrovskva (Baal, Belgium), Henry-Alexandre Bourgeno, Vincent Ninane

**PA4199** Capabilities of electronic monitoring of auscultatory phenomena in patients with broncho-pulmonary pathology
Helena Binetskaya (Minsk, Belarus), Elena Lapteva, Irina Kovalenko, Anatoly Laptev, Elena Katibnikova, Mansur Elzbur, Alexey Karankevich, Vitali Dubinetski, Olga Kharevich

**PA4200** Establishing an asthma cutpoint for the ‘Control of allergic rhinitis and asthma test’ using an international survey
Corina de Jong (Groningen, Netherlands), Bertine Flokstra - De Blok, Hendrik Jan Baretta, Ellen Van Heijst, Thys Van Der Molen, Ioanna Tsiligianni, Janwillem Kocks

**PA4201** Wide variation in practices for measuring respiratory rate in children
Will Daw (Sheffield (South Yorkshire), United Kingdom), Ruth Kingshott, Heather Elphick

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**PA4202** The evaluation of asthma control by pulmonologists: Preliminary results
Mehmet Atilla Uysal (Istanbul, Turkey), Sadece Rana Isik, Dilsad Mungan, Elif Yelda Niksarlioglu, Gulsem Elif Celik, Ali Fuat Kalyoncu, Carole Phan (phancarole@gmail.com / INSERM UMR S 999, Universite Paris-Sud, LE PLEISSIS-ROBINSON), Scott Collum (scott.d.collum@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Ning-Yuan Chen (ning-yuan.chen@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Jonathan Davies (jdavies@texaschildrens.org / Department of Pediatrics, Baylor College of Medicine, Houston), Ashrith Guha (gashrith@houstanmethodist.org / Debakey Heart & Vascular Center, Houston Methodist Hospital, Houston), Holger Eltzschig (holger.eltzschig@uth.tmc.edu / Department of Anaesthesiology, McGovern Medical School, UTHealth, Houston), Michael Blackburn (michael.r.blackburn@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Christophe Guignabert (guignabert@gmail.com / INSERM UMR S 999, Universite Paris-Sud, Houston), Harry Karmouty-Quintana (harry.karmouty@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston)

**PA4203** Towards a new inhaler instruction method based on based findings from the Inhaler Research Workgroup study
Esther I. Metting (Groningen, Netherlands), Paul Hagedoorn, Siebrig Schokker, Ellen Van Heijst, Titia Klemmeier, Marion Steurs, Rozemarijn Ettema, Kim Burger, Miguel Roman Rodriguez, Ioanna Tsiligianni, Thys Van Der Molen, Janwillem Kocks

**PA4204** Primary care prescribing habits for asthma in England 2007–15: are we following the guidelines?
John D Blakey (Liverpool (Merseyside), United Kingdom), Mariel G Slater, Alicia Gayle, Michael Baldwin

**PA4205** A review of asthma care in 50 general practices in Bedfordshire, United Kingdom.
Mark L. Levy (London, United Kingdom), Fiona Garnett, Adedayo Kuku, Inna Pertsovskaya, Eddie Mcknight, John Haughney

**PA4206** Management of children and young people (CYP) in London with asthma: a clinical audit report.
Mark L. Levy (London, United Kingdom), Angela Ward, Sara Nelson

**PA4207** Asthma treatment in real life
Esmé J. Baan (Rotterdam, Netherlands), Leila Karimi, Astrid Heermans, Guy G. Brusselle, Miriam Sturkenboom, Hettie M. Janssens, Lies Lahousse, Katia M Verhamme

**PA4208** Step-Down of ICS in stable asthmatics in primary care: An observational study
Kevin Gruffydd-Jones (Wokingham (Berkshire), United Kingdom)

**PA4209** Eligibility for referral to specialist asthma clinics in England: a national database study
John D Blakey (Liverpool (Merseyside), United Kingdom), Alicia Gayle, Mariel G Slater, Michael Baldwin

**PA4210** Do Malaysian asthma patients use asthma action plan? A cross sectional study in Malaysian primary care setting.
Hani Salim (Selangor, Malaysia), Ping Yein Lee, Sazlina Shariff Ghazali, Ai Theng Cheong, Hilary Pinnock, Noor Harzana Harrun, Salbiah Mohamed Isa, Junita Aris, Vengketeswara Rao Seetharaman, Salmah Nordin, Maimunah Mahmud, Yeow Siiong Lee
PA4211 Exploring supported self-management practices of healthcare professionals for South Asian patients with asthma
Salina Ahmed (London, United Kingdom), Hilary Pinnock, Stephanie Taylor, Liz Steed

PA4212 Perceptions among primary care staff towards financial incentives to promote implementation of asthma self-management: a qualitative study in Northern Ireland
Tracy Jackson (Edinburgh, United Kingdom), Marilyn Kendall, Liam Heaney, Mike Shields, Hilary Pinnock

PA4213 Paediatric asthma communication and education training for pharmacy students
Amanda Elaro (Sydney, Australia), Smita Shah, Bandana Saint, Carol Armour, Sinthia Bosnic-Anticevich

PA4214 Critical implementation factors to lung-interventions in low-resource-settings – a FRESH AIR systematic review
Evelyn Brakema (Amsterdam, Netherlands), Debbie Vermond, Rianne Van Der Kleij, Asel Arykbaeva, Marije Kasteleyn, Mattijs Numans, Niels Chavannes

PA4215 The silent socioeconomic impact of COPD/asthma in Africa, Asia and Europe – a FRESH AIR study
Evelyn Brakema (Amsterdam, Netherlands), Aizhamal Tabyshova, Rianne Van Der Kleij, Talant Sooronbaev, Christos Lionis, Marilena Anastasakaki, Pham Le An, Nguyen Than Luan, Bruce Kirenga, Simon Walusimbi, Maarten Postma, Niels Chavannes, Job Van Boven

PA4217 The impact of asthma and/or COPD on work absence
Job F.M. van Boven (Groningen, Netherlands), Boudewijn Dierick, Bertine Flokstra-De Blok, Thys Van Der Molen, Nuria Toledo-Pons, Miguel Roman-Rodriguez, Borja G. Cosio, Joan B. Soriano, Janwillem W.H. Kocks

PA4218 Genetic and epigenetic analysis of the 17q12-21 locus in the Saguenay–Lac-Saint-Jean (SLSJ) asthma familial cohort. Lucile Pain (Chicouimi, Canada), AndréAnne Morin, Anne-Marie Boucher-Lafleur, Jolyane Meloche, Catherine Laprise

PA4219 The role of genes IL10 (rs1800872) and TNF (rs2239704) in the pathogenesis of bronchial asthma and tuberculosis
Irina Zhalsanova (Tomsk, Russia), Elena Bragina, Maxim Freidin, Nadezhda Babushkina, Anna Garaeva, Olga Kolokolova, Densema Gomboeva, Nataliya Tarasenko, Valery Puzyrev

PA4220 Clinical and transcriptomic profiles of severe asthmatics with high or low expression of the glucocorticoid receptor and importin-7.
Pankaj Bhavsar (London, United Kingdom), Ranga Mullegama, Stelios Pavlidis, Kian Fan Chung, Ian Adcock

PA4221 -444 A/C polymorphism in the leukotriene-C4 synthase gene in patients with bronchial asthma
Vladyslava Knytya (Sumy, Ukraine), Natalia Cherednichenko, Liudmila Prystupa

PA4222 Genetic association of circadian clock genes and the risk of childhood asthma
Wojciech Langowski (Poznan, Poland), Paulina Sobkowiak, Beata Narozena, Irena Wojsyk-Banaszak, Monika Dmitrzak-Wegrz, Anna Breborowicz, Aleksandra Szczepankiewicz

PA4223 The role of GSTT1 and GSTM1 gene polymorphisms in bronchial asthma
Margarida Castro (Lisbon, Portugal), Joana Ferreira, David Sarmento, Carla Carvalho, Andreia Matos, Manuel Bicho

PA4224 The detection of EGFR mutations in liquid biopsy by allele-specific qPCR – the comparative evaluation of two common diagnostic tests
Adam Szpechcinski (Warszawa, Poland), Katarzyna Duk, Piotr Wojcik, Maciej Bryl, Piotr Rudzinski, Wlodzimierz Kupis, Grzegorz Czyzewicz, Piotr Kopinski, Tadeusz Orłowski, Joanna Chorostowska-Wynimko

PA4225 Utilisation of biomarker testing to guide therapy in non-small cell lung cancer in a regional lung cancer service
Vijayalakshmi Karunanithi (Stevenage, United Kingdom), Thida Win

PA4226 The predictive role of TLR4 +3725 G/C polymorphism in community-acquired pneumonia (CAP) severity course among young respondents with cytomegaloviral persistence (CMVP)
Kiarina Chichirelo-Konstantynovych (Vinnitsya, Ukraine), Larisa Moroz, Tetyana Konstantynovych
**New inbred mouse strains for the studying M. tuberculosis – host interactions**
Boris Nikonenko (Moscow, Russian Federation), Nadezhda Logunova, Irina Bocharova, Alexander Apt

**High-Coverage Whole Exome Sequencing Identifies Novel Frameshift Deletion of LRBA Gene in Monozygotic Twin with Common Variable Immunodeficiency.**
Asiah Kassim (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Adiratna Mat Ripen, Hamidah Ghani, Chai Teng Chear, Saharuddin Mohamad

**Mechanical cyclic stretch of the respiration and in vitro microvascular remodeling**
Soheila Zeinali (Bern, Switzerland), Emily K. Thompson, Thomas Geiser, Olivier T. Guenat

**Age-related gene and microRNA expression changes in the airways of healthy individuals**
Roy R. Woldhuis (Groningen, Netherlands), Jennie Öng, Ilse M. Boudewijn, Anke Van Den Berg, Joost K. Kluiver, Klaas Kok, Martijn M. Terpstra, Victor Guryev, Maaike De Vries, Corneel J. Vermeulen, Wim Timens, Maarten Van Den Berge, Corry-Anke Brandsma

**Premature aging in Zmpste24 deficient mice protects them from bleomycin induced lung fibrosis through upregulation of antifibrotic microRNAs**
Annie Pardo (México D.F, Mexico), Jazmin Calyeca, Raul J Olmos, Rogelio Jasso, Yalbi Balderas-Martínez, Quetzal Rivera, Moises Eduardo Selman Lama

**PD-L1 expression on alveolar macrophages and in plasma of IPF patients – original research**

**HLA class II alleles and haplotypes are associated to the presence autoantibodies and mortality in Hypersensitivity Pneumonitis patients.**
Ramcs Falfán Valencia (Mexico, Mexico), Ivette Buendia-Roldán, Luis Santiago-Ruiz, Gloria Pérez-Rubio, Enrique Ambrocio-Ortiz, Mayra Mejía, Geovanni Benítez, Martha Montañó, Moisés Selman

**Eicosanoids and eosinophilic inflammation of airways in stable COPD.**
Karolina Górka (Kraków, Poland), Natalia Celejewska-Wójcik, Aleksander Kania, Paweł Nastałek, Anna Gielicz, Lucyna Mastalerz, Marek Sanak, Krzysztof Sladek

**Differential inflammasome activation in alveoli and bronchioles in response to cigarette smoke or double stranded DNA**
Sandra Hodge (Adelaide (SA), Australia), Tran Hai, Eugene Roscioli, Rhys Hamon, Miranda Ween, Greg Hodge, Hubertus Jersmann

**Characterization of Microparticles in the lung of smokers**
Erica Bazzan (Padova (PD), Italy), Claudia Maria Radu, Graziella Turato, Mariaenrica Tinè, Davide Biondini, Marco Damin, Paolo Simioni, Manuel Cosio, Marina Saetta

**Tiotropium inhibits acetylcholine-induced generation of proinflammatory microparticles by human pulmonary epithelial cells**
Tommaso Neri (Pisa (PI), Italy), Valentina Scalise, Ilaria Passalacqua, Roberto Pedrinelli, Pierluigi Paggio, Alessandro Celi

**COPD-related epithelial inflammation drives EMT in primary epithelial ALI-cultures**
François Carlier (Watermael-Boitsfort, Belgium), Bruno Detry, Yves Sibille, Charles Pilette

**Enhanced adverse health effects upon in vivo exposure to multi-walled carbon nanotubes in chronic obstructive pulmonary disease**
Fabian Blank (Bern, Switzerland), Seraina Beyeler, Carlos Wotzkow, Amanuel Sengal, Peter Wick, Stefan Tschanz, Beat Haenni, Christophe Von Garnier
PA4241 Lung cells from people with COPD are hyperresponsive to E-cigarette vapour
Jack Bozier (Glebe, Australia), Dia Xenaki, Ian Adcock, Brian Oliver

PA4242 Cigarette smoking and high fat diet combination: a multi-organ approach to decipher their impact on health
Gaëlle Rémy (Lille Cedex, France), Jeanne Alard, Emilie Dubois-Deruy, Morgane Baron, Corinne Grangette, Florence Pinet, Isabelle Wolozwczuk, Philippe Gosset, Muriel Pichavant

PA4243 Primary human bronchial epithelial cell responses to diesel and novel biodiesel emissions
Annalicia Vaughan (Arana Hills, Australia), Svetlana Stevanovic, Mohammad Jafari, Rayleen Bowman, Kwan Fong, Zoran Ristovski, Ian Yang

PA4244 Bifidobacterium breve significantly reduces cigarette smoke-induced COPD in C57Bl/6 mice
Flavio Aimbire (Sao Jose Dos Campos (SP), Brazil), Jorge Luis Carvalho, Ana Karolina Sá, Aurileia Britto, Munique Ferreira, Elen Anatriello, Alexandre Keller

PA4245 The Effect of Cordycepin and Simvastatin on Cigarettes Smoke Extract Induced Cytokine and Chemokine Production in Human Bronchial Epithelial Cells
Mohammed Alshehri (Nottingham (Nottinghamshire), United Kingdom), Oliver Brand, Abdullah Alqarni, Alice Pasini, Linhua Pang

PA4246 RAGE Partially Mediates Cigarettes Smoke Extract induced Cytokine and Chemokine Production in Human Bronchial Epithelial Cells
Mohammed Alshehri (Nottingham (Nottinghamshire), United Kingdom), Oliver Brand, Abdullah Alqarni, Alice Pasini, Linhua Pang

PA4247 Vanadium pentoxide induced epithelial innate cytokines IL-25, IL-33, and thymic stromal lymphopoietin (TSLP) through activating MAPK pathway
Ching-Hsiung Lin (Changhua City, Taiwan), Sheng-Hao Lin, Yi-Rong Li, Hsiu-Hui Chang, Yu-Yun Ching

PA4248 Activation of MAPKs in bronchial-epithelial NCI-H292 cells co-treated with extracellular Hsp70 and bacterial components or cigarette smoke extract
Anita Somborac Baćura (Zagreb, Croatia), Andrea Hulina, Marija Grdić Rajković, Andrea Ćeri, Sanja Popović-Grlje, Lada Rumora

PA4249 Extracellular Hsp70 modulates inflammatory response in PBEC cells from COPD patients
Andrea Hulina Tomašković (Zagreb, Croatia), Lada Rumora, Miroslav Samaržija, Marnix Jonker, Irene Heijink

PA4250 Combined effect of extracellular Hsp70 and cigarette smoke extract on cytokine secretion from bronchial-epithelial NCI-H292 cell line
Marija Grdić Rajković (Zagreb, Croatia), Andrea Hulina, Anita Somborac Baćura, Dubravko Jelić, Andrea Vukić Dugac, Lada Rumora

PA4251 TGF-ß1 affects epithelial vitamin D metabolism and expression of host defence peptides
Jasmijn A. Schrumpf (Leiden, Netherlands), Dennis K. Ninaber, Anne M. Van Der Does, Pieter S. Hiemstra

PA4252 The effect of dietary fatty acids on inflammation in primary lung mesenchymal cells
Sandra Rutting (Sydney (NSW), Australia), Jay Horvat, Lisa Wood, Phil Hansbro, Brian Oliver

PA4253 RAGE blocking ameliorates cigarette smoke extract-induced human alveolar type II epithelial cell injury via RAGE-mediated redox sensitive DAMP signaling through Nrf2
Hanbyeol Lee (Chuncheon, Republic of Korea), Jooyeon Lee, Se-Ran Yang

PA4254 BPI Fold-Containing Family A Member 1 (BPIFA1) regulates lung neutrophil recruitment and interferon signaling during acute inflammation
Sara Khanal (new haven, United States of America), Naiqian Niu, Luai Huleihel, Jose Herazo-Mayà, Naftali Kaminski, Lauren Cohn, Clemente Britto

TP-17 Session 438 12:50 - 14:40
Thematic poster: COPD: novel pathological mechanisms in the airway epithelium
Disease(s) : Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s) : Physiology, Public health, Cell and molecular biology
Chairs : Anne M. van der Does (Leiden, Netherlands), Christoph Beisswenger (Homburg (Saar), Germany), Machteld N. Hylkema (NH Haren, Netherlands), Serena Di Vincenzo (Palermo (PA), Italy)
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<td>PA4255</td>
<td>LSC - 2018 - Characterization of decellularized COPD lung matrices using mass spectrometry proteomics</td>
<td>Darcy Wagner (Lund, Sweden), Franziska Uhl, Barbora Zvarova (<a href="mailto:Barbora.Zvarova@uvm.edu">Barbora.Zvarova@uvm.edu</a> / University of Vermont, College of Medicine, Burlington, VT), Bethany Ahlers (<a href="mailto:Bethany.Ahlers@uvm.edu">Bethany.Ahlers@uvm.edu</a> / University of Vermont, Vermont Genetics Network, Burlington, VT), Catrina Hood (<a href="mailto:Catrina.Hood@uvm.edu">Catrina.Hood@uvm.edu</a> / University of Vermont, Vermont Genetics Network, Burlington, VT), Bin Deng (<a href="mailto:Bin.Deng@uvm.edu">Bin.Deng@uvm.edu</a> / University of Vermont, Department of Biology, Burlington, VT), Ying-Wai Lam (<a href="mailto:Ying-Wai.Lam@uvm.edu">Ying-Wai.Lam@uvm.edu</a> / University of Vermont, Department of Biology, Burlington, VT), Erica Beatman (<a href="mailto:BeatmanE@NJHealth.org">BeatmanE@NJHealth.org</a> / National Jewish Health, Denver, CO), Kelly Schweitzer (<a href="mailto:SchweitzerK@NJHealth.org">SchweitzerK@NJHealth.org</a> / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine, Denver, CO), Irina Petrache (<a href="mailto:PetracheI@NJHealth.org">PetracheI@NJHealth.org</a> / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine, Denver, CO), Daniel Weiss (<a href="mailto:Daniel.weiss@uvm.edu">Daniel.weiss@uvm.edu</a> / University of Vermont, College of Medicine, Burlington, VT), Darcy Wagner (<a href="mailto:darcy.wagner@med.lu.se">darcy.wagner@med.lu.se</a> / Lund University, Lund)</td>
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<td>PA4256</td>
<td>Protease anti-protease imbalance and small airways disease in COPD</td>
<td>Naoya Tanabe (Kyoto, Japan), Atsuyasu Sato, Tatsushi Mizutani, Yoko Hamakawa, Kiyoshi Uematsu, Susumu Sato, Shigeo Muro, Toyo Hiroi Hirai</td>
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<td>PA4257</td>
<td>MMP-12 activates protease activated receptor (PAR)-1, upregulates placenta growth factor and leads to pulmonary emphysema</td>
<td>Hsin-Han Hou (Taipei, Taiwan), Hao-Chien Wang, Chong-Jen Yu</td>
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<td>PA4258</td>
<td>Supervising differentiation for tailoring the airway epithelial cell phenotype</td>
<td>Charlotte Vernisse (Montpellier, France), Noemie Drappier, Aurelie Fort, Lucie Knabe, Isabelle Vachier, Delphine Gras, Pascal Chanez, Engi Ahmed, Arnaud Bournard</td>
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<td>PA4259</td>
<td>Change of secretory activity of goblet cells of bronchial epithelium in asthma patients in response to cold airway challenge</td>
<td>Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B. Pirogov, Anna G. Prikhodko, Sergey V. Zinoviev, Artem V. Kolosov, Xiangdong Zhou, Qi Li, Elena V. Ushakova</td>
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<td>PA4260</td>
<td>Investigating epithelial plasticity following cigarette smoke exposure in primary human bronchial epithelium</td>
<td>Kristine Nishida (Baltimore, United States of America), Kristine Nishida, Si Chen, Jennifer Nguyen, Allison Keller, Vanshika Agarwal, Venkataramana Sidhaye</td>
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<td>PA4261</td>
<td>The effect of anticancer drugs on mucociliary clearance of bronchial ciliary cells in mice</td>
<td>Nobuyo Tamiya (Kyoto, Japan), Shigekuni Hosogi, Takashi Nakahari, Yoshinori Marumaka, Koichi Takayama</td>
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<td>PA4262</td>
<td>Cigarette smoke induces mitochondrial dysfunction via PKCd-p66Shc signaling pathway in human bronchial epithelial cells</td>
<td>Ming Zhang (Xi'an, China), Ming Zhang (China), Yali Li, Jingjia Tang, Jie Zhang, Xia Yang, Hu Shan, Qihong Zhang</td>
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<td>PA4263</td>
<td>Iron Oxide and Titanium Dioxide Nanoparticles Reduce Alveolar Epithelial Cell Stiffening and Contraction Forces</td>
<td>Isaac Almendros (Barcelona, Spain), Vinicius R Oliveira, Juan J Uriarte, Walter Zin, Daniel Navajas, Ramon Farré</td>
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<td>PA4264</td>
<td>Junctional modulation by lipopolysaccharide on epithelial damage caused by diesel exhaust particles</td>
<td>Nahyun Kim (Seoul, Republic of Korea), Moo Kyun Park</td>
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<td>PA4265</td>
<td>Therapeutic effect of small molecule C in experimental COPD model</td>
<td>Jooyeon Lee (Chungcheon-si, Gangwon-do, Republic of Korea), Hanbyeol Lee, Se-Ran Yang</td>
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<td>PA4266</td>
<td>Creatine Supplementation Augments Chronic Allergic Airway Inflammation and Remodelling: from Mice to Human Evidence</td>
<td>Monique Garcia (São Paulo, Brazil), Alana Santos-Dias, Adilson Santos Andrade-Souza, Manoel Carneiro Oliveira-Junior, Sérgio César-Ferreira, Francine Maria Almeida, Nicole Cristine Rigonato-Oliveira, Ana Paula Ligeiro Oliveira, Timo Siepmann, Marco Idzko, Tobias Müller, Rodolfo Paula Vieira</td>
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<td>PA4267</td>
<td>ADAM17 protects mice against elastase-induced emphysema via inactivation of CD62L</td>
<td>Shoji Suzuki (Tokyo, Japan), Makoto Ishii, Takanori Asakura, Ho Namkoong, Satoshi Okamori, Kazuma Yagi, Hirofumi Kamata, Tatsuya Kusumoto, Shizuko Kagawa, Ahmed Hegab, Keisuke Horiuchi, Naoki Hasegawa, Tomoko Betsuyaku</td>
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<td>PA4268</td>
<td>Cigarette smoking induced elevated CXCL5 levels in BALF and plasma of patients with COPD</td>
<td>Jun Chen (China), Tao Wang, Luqi Dai, Fuqiang Wen</td>
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<td>PA4269</td>
<td>Anti-inflammatory effect of hypoxic signaling suppression in the severe COPD model</td>
<td>Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Elena Lebedeva</td>
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<td>PA4270</td>
<td>Altered protein turnover signaling and myogenesis during impaired recovery of inflammation-induced muscle atrophy in emphysematous mice</td>
<td>Ramon C.J. Langen (Maastricht, Netherlands), Judith J.M. Ceelen, Anita E.M. Kneppers, Chiel C. De Theije, Stefan J. Van Hoof, Frank Verhaegen, Annemie M.W.J. Schols</td>
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**ERS 2018 International Congress**

**DETAILED PROGRAMME**

**TUESDAY 18 SEPTEMBER, 2018**
Extracellular matrix glycosaminoglycans can predict severity and outcome in COPD
Eleni Papakonstantinou (Thessaloniki, Greece), Ioannis Bonovolias, George Karakulakis, Michael Tamm, Renaud Louis, Branišlava Milenković, Wim Boersma, Konstantinos Kostikas, Francesco Blassi, Joachim Aerts, Gernot Rohde, Alícia Lacoma, Antoni Torres, Tobias Welle, Daiana Stolz

Cigarette smoke induces overexpression of cathepsin S in active smokers with and without COPD
Mylène Wartenberg (Tours, France), Pierre-Marie Andrau, Andrea C. Schamberger, Thibault Chazeirat, Damien Sizaret, Justine Renault, Agnès Petit, Ahlame Saidi, Serge Guyetant, Yves Courty, Oliver Eickelberg, Gilles Lalmanach, Fabien Lecaille

AGER gene expression and alternative splicing in bronchial biopsies of smokers and non-smokers
Simon D. Pouwels (Groningen, Netherlands), Cornelis J. Vermeulen, Victor Guryev, Maarten Van Den Berge, Nick H.T. Ten Hacken, Alen Faiz

Impairment of lung organoid formation by cigarette smoke treatment of mesenchymal cells
Padmini P. S. J. Khedoe (Den Haag, Netherlands), John-Poul Ng-Blichfeldt, Annemarie Van Schadewijk, Stefan J. Marciniak, Melanie Koenigshoff, Reinoud Gosens, Jan Stolk, Pieter S. Hiemstra

TP-18 Session 439 12:50 - 14:40
Thematic poster: Role of microbial exposure and inflammation in lung injury
Disease(s): Respiratory critical care, Respiratory infections, Airway diseases, Sleep and breathing disorders, Pulmonary vascular diseases, Interstitial lung diseases, Respiratory infections
Method(s): Physiology, General respiratory patient care, Respiratory intensive care, Cell and molecular biology
Chairs: Rahul Mahida (Birmingham (West Midlands), United Kingdom), Martin Witzenrath (Berlin, Germany), Susanne Krauss-Etschmann (Borstel, Germany), Manuela Platé (London, United Kingdom)

LSC - 2018 - Differential effect of ARDS on alveolar macrophage efferocytosis compared to bacterial phagocytosis
Rahul Mahida (Birmingham (West Midlands), United Kingdom), David Thickett (d.thickett@bham.ac.uk / University of Birmingham, Birmingham)

Differential effect of M1 and M2 macrophages on airway epithelial cell innate immunity and wound repair
Sander van Riet (Leiden, Netherlands), Padmini Khedoe, Annemarie Van Schadewijk, Pieter Hiemstra

Calcineurin-inhibition drives IL13 and IL5 production in differentiating and memory T cells in a Ca++-dependent manner
Karín Björhall (Möln达尔, Sweden), Ulf Gehrmann, Johan Jirholt

Lung epithelial microvesicles induced by pneumolysin contain mitochondrial cargo
Eleftheria Letsiou (Berlin, Germany), Luiz Gustavo Teixeira Alves, Diana Fatykhova, Matthias Felten, Sarah Berger, Tim Mitchell, Andreas Hocke, Martin Witzenrath

Role of microtubule-associated signaling in Staphylococcus aureus-induced lung injury.
Anna Birukova (Baltimore, United States of America), Pratap Karki, Yufeng Tian, Nicolene Sarich, Yunbo Ke, Konstantin Birukov

Inoculation Pneumonia Caused by Coagulase Negative Staphylococcus in Mice
Yinggang Zhu (Shanghai, China), Mengmeng Shi, Antoine Monsel, Jean-Jacques Rouby, Jieming Qu

Curcumin and curcuminoids attenuate RIP3-related cell death in Streptococcus pneumoniae-induced injury via up-regulating SIRT1 expression
Changchong Li (Wenzhou (Zhejiang), China), Lu Yu, Shunhang Wen, Xiaoguang Hu

Impaired Alveolar Macrophage Efferocytosis in ARDS causes accumulation of apoptotic neutrophils & prolonged inflammation
Rahul Mahida (Birmingham (West Midlands), United Kingdom), David Thickett

Neutrophil extracellular traps promoted alveolar macrophages pyroptosis in LPS induced ALI/ARDS
Haitao Lee (Changsha City, China), Pinhua Pan

Effects of autophagy on LPS-induced lung inflammation and acute lung injury (ALI) in vitro and in vivo
Lian Liu (Chengdu (Sichuan), China), Dan Xu, Tao Wang, Zhicheng Yuan, Luqi Dui, Fuqiang Wen

Anti - IL17 treatment controls responses in lung injury induced by elastase
### Thematic poster: Triggers of acute lung injury: mechanical ventilation and oxygen levels

**TP-19 Session 440**

**12:50 - 14:40**

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<td>Physiology</td>
<td>Wolfgang M. Kübler (Berlin, Germany), Ahmed Kabil (Cairo, Egypt), François Potus (Kingston, Canada)</td>
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<td>Airway diseases</td>
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<td>Cell and molecular biology</td>
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**PA4287**
Monosodium urate crystals exacerbate acute lung injury induced by lipopolysaccharide.
Laura Moreno (Madrid, Spain), Daniel Morales-Cano, Sergio Esquivel-Ruiz, Andrea Martínez-Ramas, Bianca Barreira, María Callejo-Arranz, Gema Mondejar-Parreño, Angel Cogolludo, Francisco Pérez-Vizcaíno

**PA4288**
CD101 eosinophil serves as an early response to suppress endotoxin-induced acute lung injury
Chen Zhu (China), Lingren Zhou, Qingyu Weng, Zhuhua Chen, Songmin Ying, Huahao Shen, Wen Li

**PA4289**
iTRAQ-based proteomic analysis reveals mitochondrial 'damage'-associated molecular patterns are involved in pulmonary inflammation in Lypopolysaccharide-induced acute lung injury
Zhicheng Yuan (ChengDu, China), Tao Wang, Fuqiang Wen

**PA4290**
The effect of combined therapy using rosuvastatin and dihydroarteminin in a pulmonary malaria mouse model.
CAMILA BATISTA (NITERÓI, Brazil), Helena D’Anunciação De Oliveira, Ana Maria Garcia-Darze, Maiara Lima, Érica Amorim, Adriano Silva, Hugo Caire Castro-Faria-Neto, Tatiana Marion-Gutierrez

**PA4291**
Effects of ASA and DHA therapy on malaria associated ARDS
Helena Oliveira (Rio De Janeiro (RJ), Brazil), Camila Batista, Maiara Lima, Erica Amorim, Adriano Silva, Tatiana Marion-Gutierrez, Hugo Castro-Faria-Neto

**PA4292**
The role of prostaglandins in the realization of respiratory effects of interleukin-1Β in case of hypercapnia.
Galina A. Danilova (St. Petersburg, Russian Federation), Nina P. Aleksandrova

**PA4293**
OSTEOPONTIN PROTECTS AGAINST LUNG INJURY CAUSED BY EXTRACELLULAR HISTONES
Gopinath Kasetty (Lund, Sweden), Praveen Papareddy, Ravi K Bhongir, Mohamad Ali, Michiko Mori, Malgorzata Wygrecka, Jonas S Erjefält, Lena Palmberg, Anna Hultgardh, Heiko Herwald, Arne Egesten

**PA4294**
Aerobic exercise inhibits acute lung injury: from mouse to human evidence
Regiane Albertini (São José dos Campos, Brazil), Nicole Cristina Rigonato-Oliveira, Breanne Mackenzie, Andre Luis Bachi, Manoel Oliveira-Junior, Alana Santos-Dias, Adilson Andrade-Sousa, Humberto Delle, Nilsa Damaceno-Rodrigues, Larissa Dulley, Marcela Benetti, Christiane Malfitano, Katia De Angelis, Ana Paula Ligeiro De Oliveira, Asghar Abbasi, Hinnak Northoff, Rodolfo Vieira

**PA4295**
CXCL5-dependent neutrophil recruitment harms lung barrier function in acute lung injury
Geraldine Nouailles (Berlin, Germany), Sarah Berger, Sandra-Maria Wienhold, Cengiz Goekeri, Ulrike Behrendt, Holger Müller-Redetzky, Kristina Dietert, Corinne Gurtner, Achim Dieter Gruber, Martin Witzenrath

**PA4296**
Local depletion of the recruitment of macrophages reduces acute lung injury in rats
Raquel Guillamat-Prats (Barcelona, Spain), Marta Camprubi-Rimblas, Neus Tantinyà, Antonio Artigas

**PA4297**
The protective effects of paricalcitol on renal ischemia reperfusion induced lung injury
Süreyya Yilmaz (Diyarbakir, Turkey), ZüLfüKar Yilmaz, Ali Kemal KadiroğLu, Veysi BahadıR, İbrahim Kaplan, Aydin Ketani, Engin Deniz Yilmaz, Kamil Yilmaz, Mehmet Emin Yilmaz

**PA4298**
Effect of morphine sulphate on histopathologic changes in lung tissue after ischemia reperfusion injury
Hıdır Esme (Konya, Turkey), Nuri Duzgun, Pınar Karabağlı, Mehmet Sinan Iyisoy, Melike Duran

**PA4299**
Acute lung injury induced by intestinal ischemia and reperfusion is altered in obese female mice
Yanira Riffo-Vasquez (London, United Kingdom), Evelyn Fantozzi, Sara Rodrigues-Garbin, Fernanda Ricardo-Da Silva, Ricardo Oliveira-Filho, Domenico Spina, Wothan Tavares-De-Lima

**PA4300**
Impact of systemic erythropoietin deficiency on the lung of mice exposed to hypoxia
Liasmine Haine (bobigny, France), Céline-Hivda Yegen, Dominique Marchant, Carole Planès, Nicolas Voituron*, Emilie Boncoeur*

**PA4301**
Alveolar Tidal Flooding – a New Mechanism of Ventilator-Induced Lung Injury?
Jana Grune (Berlin, Germany), Wolfgang M Kuebler, Arata Tabuchi

**PA4302**
Mechanical Preconditioning of Lung Mesenchymal Stem Cells Improves Ventilation Induced Lung Injury in Rats
Isaac Almendros (Barcelona, Spain), Paula N Nonaka, Bryan Falcones, Ramon Farré, Daniel Navajas
The morphological change in the diaphragma and soleus on rats after mechanical ventilation.
Xiaoping Zhu (Shanghai, China)

A major inflammatory cytokine TNF-a inhibits the ventilatory response to hypoxia
Anna Klinnikova (Saint-Petersburg, Russian Federation), Galina Danilova, Nina Alexandrova

The severity of ventilator-induced lung injury is regulated by the clock gene Bmal1 in myeloid cells
Matthias Felten (Berlin, Germany), Luiz Gustavo Teixeira-Alves, Eleftheria Letsiou, Holger Müller-Redetzky, Achim Kramer, Bert Maier, Martin Wittenrath

Effects of positive end-expiratory pressure-like cyclic stretching on the production of interleukin-6 protein in normal human pulmonary artery endothelial cells
Kozue Kobayashi (Sagamihara (Kanagawa prefecture), Japan), Hidenori Inaoka, Kenichi Kokubo, HirosuKe Kobayashi

Enhanced endothelial barrier protective and anti-inflammatory effects by synthetic iloprost-conjugated phospholipid.
Konstantin Birukov (Baltimore, United States of America), Olga Oskolkova, Yue Li, Chen-Ou Zhang, Grzegorz Gawlak, Yunbo Ke, Anna Birukova

Prognostic role of matrix metalloproteinase system / inhibitors in assessing the nature of reparative changes in inflammatory pulmonary tuberculosis (ITL).
Diljara Esmedlyaeva (St. Petersburg, Russian Federation), Pavel Gavrilov, Nina Alexeeva, Marina Dyakova, Larisa Kuryukhina, Evgeniy Sokolovich

Changes in the enterobacterial flora and the hydrogen gas-producing ability of the enterobacterial flora in a mouse model of acute lung injury
Ryota Yoshizawa (sagamihara, Japan), Shota Ito, Kozue Kobayashi, Kenichi Kokubo, HirosuKe Kobayashi

Morphological characteristics and mechanism of a rat model of reexpansion pulmonary edema
Shinichi Otani (Saitama, Japan), Takashi Yashiro, Shunsuke Endo

The effect of airway pressure release ventilation on circulation and respiration in post-operation of cardiac surgery patients.
Huiqing Ge (Hangzhou (Zhejiang), China)

Deciphering molecular mechanisms of cathepsin S resistance to major chemical oxidants of cigarette smoke
Mylène Wartenberg (Tours, France), Pierre-Marie Andrault, Ahlame Saidi, Lydie Nadal-Desbarats, Fabien Lecaille, Gilles Lalmanach

Ozone induced acute and chronic alterations in the lung in mice: a combined digital imaging and functional analysis.
Yvon Jule (Marseille, France), Chloé Michaudel, Louis Fauconnier, Dieudonné Togbe, Bernhard Riffel

Involvement of laminin beta-2 subunit in lung smooth muscle contraction and remodelling
Ivonne Pacheco-Alba (méxico city, Mexico), Blanca Bazán-Perkins, Patricia Ramos-Ramirez

Thematic poster: Cardiovascular and metabolic consequences of sleep-disordered breathing

The impact of obstructive sleep apnea in case of acute coronary syndrome
George Calcaianu (Riedisheim, France), Edouard Virot, Didier Bresson, Mihaela Calcaianu, Carmen Iamandi, Didier Debieuvre

Systematic coronary risk evaluation among obstructive sleep apnea patients
Aleksander Kania (Kraków, Poland), Grażyna Bochenek, Paweł Nastalek, Natalia Celejewska-Wojcik, Jakub Pabjanczyk, Krzysztof Regulski, Andrzej Opalinski, Barbara Mrzyglod, Mirosław Glowacki, Krzysztof Sladek

Obstructive sleep apnoea and cardiovascular events in a Chinese cohort
PEIHANG XU (HongKong, Hong Kong), Dyt Fong, Ckm Hui, Mms Lui, Dcl Lam, Msm Ip

Diagnosis of left ventricular diastolic dysfunction among obstructive sleep apnea patients
Yong Mei Ching (Kuching (Sarawak), Malaysia), Diana Hui Ping Foo, Sze Shyang Kho, Swee Kim Chan, Alan Yean Yip Fong, Siew Teck Tie
Correlations between severity of obstructive sleep apnoea and systolic pulmonary artery pressure: preliminary results
Lorenzo Marra (bari (BA), Italy), Sebastiano Cicco, Giorgio Castellana, Valentina Di Lecce, Pierluigi Carratù, Giuseppe Ranieri, Angelo Vacca, Onofrio Resta

Inverse relationship between objective snoring time and the prevalence of plaque in women
Jinyoung Kim (Ansan, Republic of Korea), Allan Pack, Barbara Riegel, Seung Ku Lee, Chol Shin

Thrombolysis and evolution of sleep apnea in ischemic stroke
Jaana Huhtakangas (Oulu, Finland), Tarja Saaresranta, Juha Huhtakangas

Sleep disorder level in stroke patients and related factors
Taha Tahir Bekci (Konya, Turkey), selman parlak, Halim YiLmaz, Lüfifiye Parlk

The importance of RDW in obstructive sleep apnea syndrome.
Seda Beyhan Sagmen (Istanbul, Turkey), Elif Torun Parmaksiz, Nesrin Kiral, Banu Salepci, Sevda Comert

Nocturnal respiratory failure in moderate sleep apnoea as predictive factor of cardiovascular and metabolic comorbidities
Valentina Di Lecce (Modugno (BA), Italy), Lorenzo Marra, Giorgio Castellana, Pierluigi Carratù, Vincenzo Nicola Valerio, Carla Santomasi, Onofrio Resta

The efficiency of Epworth sleepiness scale and Berlin questionnaire for detecting Obstructive sleep apnea syndrome(OSA) in 100 Tunisian patients with non valvular atrial fibrillation(AF)
Amany Touil (Tunis, Tunisia), Jihen Ben Amar, Kais Sammoud, Manel Ben Halima, Sana Ouali, Mohamed Sami Mourali, Besma Dhahri , Haifa Zaibi , Hager Khouch, Ines Laouini, Mohamed Ali Baccar, Saloua Azzabi , Hichem Aouina

Effect of treatment of CSA/CSR on left ventricular ejection fraction in heart failure– a network meta-analysis
Esther Irene Schwarz (Zürich, Switzerland), Frank Scherff, Sarah R Haile, Malcolm Kohler

Recent heart rate rises, as a marker of sleep fragmentation, return more rapidly during CPAP withdrawal than oxygen desaturations
Saxon Pattenden (Oxford, United Kingdom), Christopher Turnbull, John Stradling

Hyoxia effect on the hepatic profile, glucose metabolism and cardiovascular risk.
Beatriz Aldave Orzaiz (, Spain), Pedro Landete Rodriguez , Carmen Acosta Gutierrez, Marta Hernandez Olivo , Maria Gonzalez Gonzalez, Jose Manuel Muñoz Olmedo , Alfonso Friera Reyes, Ana Sanchez Azofra, Enrique Zamora Garcia, Agueda Gonzalez Rodriguez, Joan B Soriano, Carmelo Garcia Monzon, Julio Ancochea Bermudez

Ischemia modified albumin in Patients with Obstructive Sleep Apnea Syndrome
Mustafa Düger (Tekirdağ, Turkey), Ekrem Cengiz Seyhan, Mustafa Bolatkale, Zeynep Kansu, Engin Aynaci

Apelin and ischemia modified albumin levels in heart failure patients with sleep disordered breathing
Nazan Bayram (Gaziantep, Turkey), Ber na Taşkin Doğan, Meral Uyar

The effect of CPAP treatment on Galectin-3 level in patients with severe obstructive sleep apnea
Iana Andreieva (Zaporizhia, Ukraine)

Effect of continuous positive airway pressure on lipid profile in patients with severe OSAS
Beatrix Simon (Budapest, Hungary), Bettina Gabor, Imre Barta, Csilla Paska, Robert Szvatek, Gyorgy Boszormenyi Nagy, Eva Vizi, Balazs Antus

The influence of long-term CPAP therapy on metabolic variables in obstructive sleep apnea patients
Wojciech Kuczyński (Łódz, Poland), Aleksandra Stolarz, Piotr Bialasiewicz

TP-21 Session 442 12:50 - 14:40
Thematic poster: Treatments that can serve as an alternative to positive airway pressure (PAP)
Disease(s) : Sleep and breathing disorders
Method(s) : Imaging Surgery Epidemiology Physiology General respiratory patient care Public health
Chairs : Oana Claudia Deleanu (Bucuresti, Romania), Josep M Montserrat (Barcelona, Spain), Himender Makker (London, United Kingdom), Wilfried De Backer (Edegem (Antwerp), Belgium)

Positional obstructive sleep apnea in the European Sleep Apnoea Database (ESADA) study
Izolde Bouloukaki (Heraklion (Crete), Greece), Athanasia Pataka, Paschalis Steiropoulos, Ludger Grote, Marisa Bonsignore , Jan Hedner, Oreste Marrone, Ozen Basoglu , Johan Verbraecken, Carolina Lombardi , Gianfranco Parati, Zoran Dogas, Sophia Schiza
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<thead>
<tr>
<th>PA4336</th>
<th>Sleep apnea syndrome and its association with serum vitamin D level</th>
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<td></td>
<td>Dabboussi Selsabil, Ammar Wissem, Mhamdi Samira, Moatamri Zied, Aichaouia Chiraz, Khadhraoui Mohsen, Rzaieg Cheikh</td>
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<tr>
<th>PA4337</th>
<th>Is Vitamin D Deficiency Associated With Obstructive Sleep Apnea Syndrome?</th>
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<td></td>
<td>Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Nouran Azab, Rabab Wahsh, Yaser Gabashy, Heba Sharaf Eldean</td>
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<tr>
<th>PA4338</th>
<th>One year vitamin D and parathyroid hormone influence in patients with OSAS and CPAP treatment</th>
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<td></td>
<td>Daniela Krasimirova (Sofia, Bulgaria), Daniela Petrova, Ognian Georgiev, Radoslav Bilyukov, Tzanko Mondeshki, Martin Nikolov, Adelina Tzakova, Ventislava Pencheva Genova, Bilyana Stancheva, Selva Naydenksa, Petko Shoshkov</td>
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<tr>
<th>PA4339</th>
<th>Postural effects on nasal resistance in obstructive sleep apnoea (OSA) and efficacy of a novel oral appliance</th>
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<td></td>
<td>Benjamin Tong (Randwick, Australia), Carolin Tran, Andrea Ricciardiello, Michelle Donegan, Nicholas Murray, Alan Chiang, Jason Amatoury, Danny Eckert</td>
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<tr>
<th>PA4340</th>
<th>Oral appliance is a useful treatment for obstructive sleep apnoea irrespective of disease severity</th>
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<td></td>
<td>Hoi Yee Kwan (Kowloon, Hong Kong), Wai Kuen Tang, Sai On Ling, Yik Ning Poon, Anthony Pak Yuen Yau, Chie Wai Yim, Thomas Yan Wing Mok</td>
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<tr>
<th>PA4341</th>
<th>Mandibular advancement splint for treatment of obstructive sleep apnea</th>
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<tr>
<td></td>
<td>Ana Cristina Alves Ferreira (Vila do Conde, Portugal), Pedro Ramalho, Catarina Ferreira, Fátima Teixeira, Fátima Carvalho</td>
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<tr>
<th>PA4342</th>
<th>Clinical Impact of 2 types of Mandibular Retention Devices (MRD) - Narval CADCAM vs Narval nonCADCAM – on OSA: ESTAMPS STUDY</th>
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<tr>
<td></td>
<td>Adeline Kerbrat (Paris, France), Olivier Vinuesa, Elodie Aversenq, Laurent Morin, Florent Lavergne, Jean-Baptiste Kerbrat</td>
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<tr>
<th>PA4343</th>
<th>Effect of Long Term Oral Appliance Therapy on Obstruction Pattern in Patients with Obstructive Sleep Apnea</th>
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<tr>
<td></td>
<td>Dong-Kyu Kim (Chuncheon-si, Gangwon-do, Republic of Korea)</td>
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<tr>
<th>PA4344</th>
<th>Cardiovascular effects of a mandibular advancement device versus continuous positive airway pressure in moderate obstructive sleep apnea</th>
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<td>Grietje E. De Vries (Groningen, Netherlands), Aarnoud Hoekema, Ewout Houwerzijl, Wouter Jacobs, Jan Van Der Maten, Boudewijn Stegenga, Huib Kerstjens, Peter Wijkstra</td>
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<tr>
<th>PA4345</th>
<th>Oral Appliances (OAs) treatment in Obstructive Sleep Apnea (OSA) : a three years experience</th>
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<td></td>
<td>Paolo Righini (Torino (TO), Italy), Alessandro Oliva, Valter Gallo, Giovanni Maria Ferrari, Massimo Comune, Marco Ottavio Gilardino, Roberto Prota</td>
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<tr>
<th>PA4346</th>
<th>Combined CPAP and oral appliance (OA) therapy reduces PAP requirements and pharyngeal pressure (Pepi) swings in OSA</th>
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<td>Benjamin Tong (Randwick, Australia), Carolin Tran, Andrea Ricciardiello, Michelle Donegan, Nicholas Murray, Alan Chiang, Jason Amatoury, Danny Eckert</td>
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<th>PA4347</th>
<th>Obstructive sleep apnea after pharyngeal flap surgery in children</th>
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<tr>
<td></td>
<td>Alessandro Amaddeo (Paris, France), Ines Trabelsi, Sonia Khirani, Benoit Michel, Arnaud Picard, Brigitte Fauroux</td>
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<tr>
<th>PA4348</th>
<th>Polypgraphic patterns predictive of success of upper airway surgery in obstructive sleep apnea patients</th>
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<tr>
<td></td>
<td>Anna Monzani (CAMPARADA (MI), Italy), Paola Faverio, Alberto Braghiroli, Massimo Godio, Paolo Aluffi Valletti</td>
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<tr>
<th>PA4350</th>
<th>Impact of Inspiratory Muscle Training on Obstructive Sleep Apnea in Coronary Artery Disease Patients. The RICAOS study: preliminary results.</th>
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<td></td>
<td>Pierre Labeix (Saint-Etienne, France), Mathieu Berger, Hayet Iddir, Frederic Roche, David Hupin</td>
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<tr>
<th>PA4351</th>
<th>Effect of Tongue Motor Task Training on Serotonergic Excitatory Drive to Genioglossus Electromyographic Activity in Rats</th>
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<td>Wenyang Li (China), Hongyu Jin, Ying Zou, Wei Wang</td>
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<tr>
<th>PA4352</th>
<th>The Different Effect of Tongue Motor Task Training (TTT) and Strength Training (ST) on the Modulation of Genioglossus Corticomotor Excitability in Rats</th>
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<th>PA4353</th>
<th>Soft cervical collar in obstructive sleep apnea, a pilot study</th>
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<td>Philippe Bordier (Pessac, France), Aurelia Lataste, Sebastien Orazio</td>
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<th>PA4354</th>
<th>Effects of energy restricted diet on sleep and metabolic parameters in obese Obstructive Sleep Apnea patients</th>
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<td>Camila De Melo (São Paulo (SP), Brazil), Marcus Vinicius Dos Santos, Mariana Pantaleão Del Re, Sandra Maria Lima Ribeiro, Hanna Karen Moreira Antunes, Sonia Maria Togoere, Sergio Tufik, Marco Túlio De Mello</td>
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Thematic poster: Sleep and breathing control: phenotypes

**Disease(s):** Sleep and breathing disorders

**Method(s):** Respiratory intensive care  General respiratory patient care  Public health  Epidemiology

**Chairs:** Ludger Grote (Göteborg, Sweden), Patrick B. Murphy (Oxted (Surrey), United Kingdom), Richard Staats (Murches, Portugal), Jan A. Hedner (Göteborg, Sweden)

PA4355  **Does the seasons and PM10 levels affect to sleep?**
Peri Meram Arbak (Düzce, Turkey), Pınar Yıldız Gülhan, Ege Gulec Balbay, Mehmet Fatih Elverişli, Merve Erçelik

PA4356  **The impact of smoking status on obstructive sleep apnea (OSA) severity.**
Piotr Bielicki (Warszawa, Poland), Anna Trojan, Piotr Sobieraj

PA4357  **The prevalence of sleep-disordered breathing in the general population: results of the Asklepios Cohort**
Fre Bauters (Ghent, Belgium), Marc Debuyzere, Julio Chirinos, Katrien Hertegonne, Ernst Rietzschel

PA4358  **Sleep apnea in Tibetans and Han long-term high altitude residents**
Lu Tan (Chengdu, China), Taomei Li, Michael Furian, Xiaofang Xue, Rong Ren, Junying Zhou, Ye Zhang, Jiaming He, Silvia Ulrich, Konrad E Bloch, Xiangdong Tang

PA4359  **Young obstructive sleep apnea patients: characteristics, adherence and hospitalizations tendencies**
Daniel López-Padilla (Madrid, Spain), Elena R. Jimeno, Milagros Llanos Flores, Virginia Gallo González, Zichen Ji, Soledad López Martín, José Terán Tinedo, Elena Ojeda Castillejo, Luis Puente Maestu

PA4360  **Younger people have more severe obstructive sleep apnea syndrome.**
Stefan A. Mihacuta (Timisoara (Timis), Romania), Roxana Pleava, Kevin Muller, Alexandra Rus, Alexandru Ciotlos-Sinoi, Daniela Reisz, Rodica Dan

PA4361  **Sleep apnea-hypopnea syndrome in elderly obese patients : clinical and functional profiles**
Donies Masmoudi (Sfax, Tunisia), Fidaa Alaya, Olfà Jallouli, Rim Kammoun, Asma Haddar, Ines Kammoun, Kaouthar Masmoudi

PA4362  **Defining the core components of a clinical review of people using continuous positive airway pressure (CPAP) therapy - an international e-Delphi study**
Phyllis Murphie (Dumfries (Dumfries and Galloway), United Kingdom), Stuart Little, Brian Mckinstry, Hilary Pinnock

PA4363  **Obstructive sleep apnea and metabolic syndrome in 1,600 adult Japanese PSG cases.**
Akemi Matsuo (Nagano, Japan), Kei Sonehara

PA4364  **The Relation Between Cardiovascular Diseases And Anthropometric Measurements In Patients With Obstructive Sleep Apnea: A Single Center Study**
Asiye Kanbay (Kayseri, Turkey), Halil Ibrahim Yakar, Sabahat Alışır Eceder, Erkan Ceylan

PA4365  **Impact of Ostructive Sleep Apnea, Age, Body mass index and Neck circumference on timing of Acute Coronary Syndrome onset**
Muhammad Hanis Muhmad Hamidi (Batu Caves, Malaysia), Muhammad Hanis Muhmad Hamidi, Muhammad Amin Ibrahim, Johan Rizwal Ismail, Mohd Arif Mohd Zim, Ahmad Izzuannudin Ismail

PA4366  **Laryngeal obstruction in moderate and severe obstructive sleep apnea patients requested higher CPAP level during treatments**
Yung-Lun Ni (Taichung, Taiwan), Yu-Lun Lo, Tsai-Yu Wang, Ting-Yu Lin

PA4367  **Rapid eye movement-related obstructive sleep apnea: a retrospective study**
Catarina Marques (Gondomar, Portugal), Daniela Machado, Inês Franco, Inês Sanches, Regina Monteiro, Daniela Ferreira

PA4368  **A retrospective study about the causes of excessive daytime sleepiness except for sleep-disordered breathing in Japan.**
Keisaku Fujimoto (Matsumoto, Japan), HARUKA SUZUKI

PA4369  **Factors affecting the quality of life in patients with obstructive sleep apnea syndrome**
Maher Maoua (Sousse, Tunisia), Haifa Aroui, Houda Kalboussi, Maher Maoua, Imen Kacem, Sana Elguedri, Aicha Brahem, Olfa Elmaalel, Souheil Chatti, Halima Bentsemel, Mohamed Benzarti, Najib Mrizek
Sleep patterns and predictors of poor sleep quality among Tunisian medical students (MS).

Sleep quality and quality of life in physicians and nurses working at a Central Hospital
Joana Sofia Vicente De Carvalho (Bobadela LRS, Portugal), Ines Oliveira, Rita Rosa, Catarina Barata, Marta Fradinho, Luisa Oliveira, Fernando Nogueira

Night shifts: impact of a lifetime
Rita Coelho Soares Rosa (Lisboa, Portugal), Catarina Barata, Ines Oliveira, Joana Carvalho, Marta Fradinho, Luisa Oliveira, Fernando Nogueira

Effect of invasive mechanical ventilation (IMV) on sleep architecture in intensive care unit (ICU).
Brijesh Prajapati (Rohtak (Haryana), India), Dhruba Chaudhry, A S Sandhya

TP-23
Session 444 12:50 - 14:40
Thematic poster: COPD management
Disease(s): Airway diseases, Respiratory critical care
Method(s): Respiratory intensive care, Public health, Imaging, General respiratory patient care
Chairs: Alexander Mathioudakis (Manchester, United Kingdom), Mario Cazzola (Roma (RM), Italy), Huiib A.M. Kerstjens (Groningen, Netherlands), Ioannis Bonovolakis (Thessaloniki, Greece)

Dual bronchodilator response according to bronchitis symptoms in the FLAME study
Karen Mezzi (Basel, Switzerland), Alexander Mackay, Konstantinos Kostikas, Stefan-Marian Frent, Pascal Pfister, Pritam Gupta, Francesco Patalano, Donald Banerji, Jadwiga A. Wedzicha

Indacaterol/glycopyrronium vs tiotropium or glycopyrronium in treatment naive COPD patients: a pooled analysis
Petter Olsson (Stockholm, Sweden), Shigeo Muro, Hajime Yoshisue, Alexander J. Mackay, Konstantinos Kostikas, Pritam Gupta, Jadwiga A. Wedzicha

Estimating potential cost savings associated with managing COPD according to GOLD 2017 recommendations in UK primary care: a CPRD study
Alexander Mathioudakis (Manchester, United Kingdom), Jorgen Vestbo, Alicia Gayle, Scott Dickinson, Kevin Morris, Samantha Webster, Chris Poole

Indacaterol/glycopyrronium increases lung ventilation in COPD patients as measured by hyperpolarized 3He MRI
Hanns-Christian Tillmann (Basel, Switzerland), David Singh, Dinesh Saralaya, Rod Lawson, Jim Wild, Jonathan Goldin, Konstantinos Kostikas, Kristin Smith, Surendra Machineni, Denise Yates

Effect of ICS withdrawal on COPD exacerbations in patients on triple therapy at baseline
Gary T. Ferguson (Farmington Hills, United States of America), Asif Shaikh, Kay Tetzlaff, Achim Mueller, Henrik Watz

Health status changes in COPD patients after real-life switch from tiotropium or salmeterol/fluticasone to indacaterol/glycopyrronium using the EQ-5D-3L instrument: results from the POWER study
Syed Anees (Windsor (ON), Canada), Andrew Mcivor, Kenneth R. Chapman, Irvin Mayers, Driss Rochdi, David Prefontaine, Alan Kaplan

Extrafine beclometasone dipropionate, formoterol fumarate, glycopyrronium (BDP/FF/G) and exacerbation recurrence: post-hoc analysis of the TRIBUTE study.
George Georges (Cary, United States of America), Leonardo Fabbri, Dave Singh, Jorgen Vestbo, Massimo Corradi, Alessandro Guasconi, Mario Sciri, Isabella Montagna, Helene Prunier, Stefan Petrozzelli, Alberto Papi

Pharmacological treatment of stable Chronic Obstructive Pulmonary Disease: Where do we stand?
Fatma Chermiti Ben Abdallah (Tunis, Tunisia), Marwa Kacem, Imen Bachouch, Nidhal Belloumi, Yasmine Hdidene, Soraya Fenniche

FF/UMEV1 and UMEC/VI in the ELLIPTA device in patients with COPD: Subgroup analyses from the IMPACT trial
Dave Singh (Manchester, United Kingdom), Frank Barnhart, Noushin Brealey, Gerard Criner, Mark Dransfield, David M G Halpin, Meilan K Han, C Elaine Jones, Sally Kilbride, Peter Lange, David A Lomas, Fernando J Martinez, Dalal Mouneienme, Robert Wise, David A Lipson

Exacerbation outcomes with LAMA/LABA and ICS/LABA in high risk COPD patients in the IMPACT trial
David A Lipson (Wynnewood, United States of America), Frank Barnhart, Isabelle Boucot, Courtney Crim, Noushin Brealey, Gerard J Criner, Mark Dransfield, David M G Halpin, Sally Kilbride, Meilan K Han, Peter Lange, David A Lomas, Fernando J Martinez, Dave Singh, Ian Naya Naya, Christine Elaine Jones, Robert Wise
Comparison of LAMA/LABA vs ICS/LABA in high risk COPD patients: Pre-specified analysis on lung function and health status from the IMPACT trial

PA4385
David A Lipson (Wynnewood, United States of America), Frank Barnhart, Isabelle Boucot, Courtney Crim, Noushin Brealey, Gerard J Criner, Mark Dransfield, David M.G Halpin, Sally Kilbride, Meilan K Han, Peter Lange, David A Lomas, Fernando J Martinez, Dave Singh, Ian Naya Naya, Christine Elaine Jones, Robert Wise

LABA/LAMA combinations efficacy evaluation therapy of COPD patients with emphasized morning and night symptoms

PA4386
Tanja Pavlović (Beograd, Republic of Serbia), Dejan Pavlović, Miodrag Vukčević, Vladimir Žugić

Baseline symptom burden and dual bronchodilator response in the FLAME study

PA4387
Petter Olsson (Stockholm, Sweden), Alexander Mackay, Konstantinos Kostikas, Stefan-Marian Frent, Pascal Pfister, Pritam Gupta, Francesco Patalano, Donald Banerji, Jadwiga A. Wedzicha

Indacaterol/Glycopyrronium improves pulmonary ventilation and ventilation inhomogeneity in the CLAIM Study

PA4388
Jens Vogel-Clausen (Hannover, Germany), Till Kaireit, Andreas Voskrebenzev, Christian-Olaf Schoenfeld, Christoph Czerner, Julius Renne, Hanns-Christian Tillmann, Korbinian Berschneider, Simone Hiltl, Johann Bauersachs, Tobias Welte, Jens M. Hohlfeld

Comparison of dual vs triple therapies in patients hospitalized for COPD in France: a claims data study

PA4389
Faustine Dalon (Lyon, France), Nicolas Roche, Manon Belhassen, Maeva Nolin, Daniel Vesque, Philippe Devillier, Gaetan Deslee, Bruno Housset, Hervé Pegliasso, Eric Van Ganse

Efficacy of tiotropium/olodaterol on sedentary/active time in COPD patients: VESUTO study

PA4390
Yoshiaki Minakata (Wakayama, Japan), Takashi Motegi, Jun Ueki, Yasuhiro Gon, Tetuso Seki, Tatsuhiko Anzai, Shuhei Nakamura, Kazuto Hirata, Masakazu Ichinose

Effect of tiotropium/olodaterol combination therapy on long-term heart rate and blood pressure in COPD patients

PA4391
Stefan Andreas (Immenhausen, Germany), Lorcan Megarvey, Ulrich Bothner, Matthias Trampisch, Alberto De La Hoz, Matjaz Fležar, Peter Alter, Roland Buhl

Effects of Inhaled Long Acting Muscarinic Antagonist (LAMA) on Lung Functions in Adult Stable Bronchiectasis

PA4392
Metinee Tungnantawiwat (Bangkok, Thailand), Kamon Kitinarong

Reproducibility of COPD blood eosinophil counts

PA4395
Thomas Southworth (Manchester (Greater Manchester), United Kingdom), Gussie Beech, Umme Kolsum, Dave Singh

Blood eosinophils in COPD: relationship with CLCA1 and mucus production

PA4396
Gabriella Long (Hayling Island (Hampshire), United Kingdom), Umme Kolsum, Andrew Higham, Sririam Sridhar, Tuyet-Hang Pham, Thomas Southworth, Paul Newbold, Dave Singh

Oropharyngeal and sputum microbiome dynamics with the same pattern following exacerbation of chronic obstructive pulmonary disease

PA4397
Jin Su (Guangzhou (Guangdong), China), Haiyue Liu, Yanx Lin, Hongwei Zhou

The impact of smoking on airway microbiome and mycobiome of COPD/AECOPD patients

PA4398
Jin Su (Guangzhou (Guangdong), China), Haiyue Liu, Yanx Lin, Rongchang Chen

The study of airway microbiome and mycobiome of COPD and AECOPD patients

PA4399
Jin Su (Guangzhou (Guangdong), China), Haiyue Liu, Yanx Lin, Rongchang Chen
**PA4400** Association of ER22/23EK glucocorticoid receptor gene polymorphism with glucocorticoids dosage in COPD
Vera Djordjevic (Niš, Republic of Serbia), Milena Despotovic, Ivana Stankovic, Tatjana Jevtovic Stoimenov

**PA4401** Fevipiprant inhibits prostaglandin D2 mediated activation of group 2 innate lymphoid cells (ILC2s)
Wentao Chen (Oxford (Oxfordshire), United Kingdom), Clare Hardman, Paul Batty, Jian Luo, Yanqiu Wu, Luzheng Xue, Graham Ogg, David A Sandham, Veit J Erpenbeck

**PA4402** Cholinergic muscarinic receptors and airway remodelling in severe asthma
Fabio L. M. Ricciardolo (Orbassano (TO), Italy), Anna Folino, Vitina Carriero, Michela Bullone, Michael Pieper

**PA4403** Longitudinal measurement of VOCs in breath demonstrates pharmacokinetic washout curve
Marc P. C. van der Schee (Amsterdam, Netherlands), Jasper Boschmans, Rob Smith, Russell Parris, Billy Boyle, Duncan Athorp, Simon Kitchen

**PA4404** Investigating the safety of capsaicin cough challenge in severe asthma
Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Stephen Fowler, Robert Niven, Dorothy Ryan, Kimberley Holt, Joanne Mitchell, Rachel Dockry, Bashar Al-Sheklly, Imran Satia, Jacky Smith

**PA4405** Inhaled LPS challenge in healthy subjects: a dose escalation study
Alex Mulvanny (Manchester (Greater Manchester), United Kingdom), Natalie Jackson, Caroline Pattwell, Sophie Wolosianka, Thomas Southworth, Dave Singh

**PA4406** Rhinovirus Challenge in Asthmatics and Healthy Volunteers to Evaluate the Safety and Appropriate Dose of a GMP Human Rhinovirus 16 Preparation for Challenge Studies in Mild-Moderate Asthmatics taking ICS
Norbert Krug (Hannover, Germany), Jens M. Hohlfeld, Antonios Aliprantis, Leonidas Carayannopoulos, An Bautmans, Martine Robberechts, Inge De Lepeleire, Holger Ziehr, Bob Thornton, Peter J. Sterk, Rene Lutter And The U-Biopred Study Group

**PA4407** Utility of drug reaction assessments for inhaled therapies in patients with chronic suppurative lung diseases: results from 5 years of drug reaction assessments
Giulia Rinaldi (London, United Kingdom), Brittany Dennis, Georgie Houseley, Owais Shah, Michael Loevinger

**PA4408** The acute effect of inhaled salbutamol and ipratropium on aortic stiffness and pressure wave reflection
Hussein Al-Rubaye (London, United Kingdom), Kashyap Chauhan, Monia Yasmine Arzim, Valentina Abi Osman, Emma H Baker, Fok Henry, Ruickbie Sachelle, Daniel Burage

**PA4409** Inhalations of Tranexamic Acid for hemoptysis: A randomized controlled trial
Ori Wand (Kfar Sava, Israel), Elad Guber, Alexander Guber, Gali Epstein-Shochet, Lilach Israeli-Shani, David Shitrit

**PA4410** Impact of glucagon-like peptide 1 receptor agonists on lung function of diabetic patients: a 52 weeks clinical trial
Paola Rogliani (Roma (RM), Italy), Luigino Calzetta, Angelo Coppola, Mario Cazzola, Davide Lauro, Maria Gabriella Matera

**PA4411** Novel treatment of eosinophilic bronchitis with allergic fungal sinusitis using mepolizumab: One year follow-up.
Yuichiro Takeshita (atami, Japan), Seiichi Nobuyama, Yukiko Kanetsuna, Tetsuo Satou

**PA4412** Long-acting bronchodilators and synergistic interaction: a challenge across the currently available LABA/LAMA combinations
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Ermanno Puxeddu, Francesco Facciolo, Mario Cazzola, Maria Gabriella Matera

**PA4413** Characterisation of a chronic pre-clinical model of allergic asthma
Pauline Flajolet (London, United Kingdom), Jorge De Alba, Kristof Raemdonck, Maria G. Belvisi, Mark A. Birrell

**TP-25** Session 446  12:50 - 14:40

**Thematic poster: Airway disease: recent discoveries**

**Disease(s):** Airway diseases, Respiratory infections, Interstitial lung diseases, Sleep and breathing disorders, Respiratory critical care

**Method(s):** Physiology, Cell and molecular biology, Epidemiology, General respiratory patient care, Surgery, Public health

**Chairs:** Pierre-Régis Burgel (Sorbonne Paris Cité, France), Vasileios Andrianopoulos (Schönau am Königssee, Germany), Apostolos Bossios (Stockholm, Sweden), Jose Luis Lopez-Campos Bodineau (Sevilla, Spain)

**PA4414** Clinical features and functional parameters predict the probability of ACO in patients with asthma and COPD
Giulia Ciardi (Prato (PO), Italy), Chiara Allegrini, Marco Palazzi, Alessio Fabbrizzi, Gianna Camiciottoi

**PA4415** Tuberculosis associated Obstructive Lung disease- A Pilot Study
Tarang Kulkarni (Mumbai (Maharashtra), India), Raja Dhar, Beauty Biswas, Sneha Limaye, Alok Ghoshal
| PA4416 | Evaluation bronchial hyperresponsivness in patients with persistent allergic rhinitis | Dragan Koruga (Novi Sad, Republic of Serbia), Sanja Hromis, Nenad Baletić, Aleksandar Perić |
| PA4417 | Identifying gaps in care: review of bronchiectasis care in a general respiratory unit | Megan Rees (Melbourne (VIC), Australia), Belinda Liu, Natasha Smallwood |
| PA4418 | Correlation between sputum and blood eosinophils in asthmatic and COPD patients with comorbidities. | Patrizia Pignatti (Vigevano (PV), Italy), Dina Visca, Etienne Lucini, Francesca Cherubino, Elisabetta Zampogna, Claudia Celesia, Giovanni Sotgiu, Antonio Spanevello |
| PA4419 | Using fractional exhaled nitric oxide level to differentiate asthma–COPD overlap syndrome from COPD | Fikret Kanat (Konya, Turkey), Volkan Taskin, Mecit Suerdem, Nedim Gurel, Baykal Tulek |
| PA4420 | Romanian awareness and screenings for Obstructive Airway disease - World Asthma and COPD Day 2017 | Ramona Elena Nedelcu (Bucuresti, Romania), Florin Dumitru Mihaltan, Ruxandra Ulmeanu |
| PA4421 | Association between subjective and objective cough assessment - preliminary report | Dariusz J. Ziora (Zabrze, Poland), Michał Zieliński |
| PA4422 | Nasal polyps as possible target to achieve the best biological treatment choice in severe asthma | Manuela Latorre (Pisa (PI), Italy), Veronica Seccia, Maria Laura Bartoli, Lodovica Cristofiani-Mencacci, Matteo Bradicich, Marta Maria Daniele, Roberta Del Cesta, Mario Miccoli, Silvana Cianchetti, Elena Bacci, Pierluigi Paggiaro |
| PA4423 | Obstructive sleep apnea as a risk factor for non-asthma control | Fabio Valls (Sao Luis (MA), Brazil), Maria Do Rosario Da Silva Santos Costo, Brendon Da Silva Santana, Laisson De Moura Feitosa, Ana Beatriz Campelo Campos, Gabriel Matos Machado, Lucas Otoni Lima Rocha, Ithaan Barboza Da Silva, Renato Simões Gaspar |
| PA4424 | Alpha 1-globulin fraction of serum protein electrophoresis for screening and early detection of alpha 1 antitrypsin deficiency | Simone Scarlata (Roma (RM), Italy), Simona Santangelo, Panaiotis Finamore, Gilda Giannunzio, Davide Fontana, Raffaele Antonelli Incalzi |
| PA4425 | Increasing sputum basophils is a marker for eosinophil-dominant airway inflammation in adult asthma | Keiko Wakahara (Nagoya, Japan), Tomoko Nishio, Yoshihiro Suzuki, Suguru Majima, Saya Nakamura, Yoshinori Hasegawa |
| PA4426 | Primary ciliary dyskinesia diagnosis in adult patients with bronchiectasis in Sao Paulo, Brazil. | Mary Anne Kowal Olm (São Paulo (SP), Brazil), Rodrigo Abensur Athanazio, Samia Rached, Niki Tomas Loges, Heymut Omran, Rafael Stelmach, Paulo H.N. Saldiva, Thaís Mauad |
| PA4427 | The nation-wide survey of primary ciliary dyskinesia in Japan | Naoumi Hashimoto (Nagoya, Japan), Yoshinori Hasegawa, Naoto Keicho, Kazuhiko Takeuchi, Makoto Takase, Minako Hiiikata, Akira Ando, Sakae Homma, Naohiko Inase |
| PA4428 | Longitudinal changes in exhaled and nasal nitric oxide in children and young adults with asthma. | Christina Krantz (Uppsala, Sweden), Christer Janson, Kjell Alving, Andrei Malinovschi |
| PA4429 | A comparison of unsupervised methods based on dichotomous data to identify clusters of airways symptoms: latent class analysis and partitioning around medoids methods. | Rita Amaral (Porto, Portugal), Tiago Jacinto, Ana Pereira, Rute Almeida, João Fonseca |
| PA4430 | Comparison of aerosol delivery from two inhaler technique-guidance devices. | Mark Sanders (Harlow (Essex), United Kingdom), Ron Bruin, Cuong Tran |
| PA4431 | Inhaler technique assessments in a real-life cohort of mepolizumab-treated patients | Helle Haagensen Andersen (Brabrand, Denmark), Lene Molgaard Pedersen, Anne Sofie Bjerrum |
| PA4432 | Poor inhaler technique revealed by investigating different aids in patients with COPD | Karoline Litrup King (Århus N, Denmark), Lotte Hasling Kodbol Jørgensen, Anders Lokke |
| PA4433 | Influence of personal characteristics of patients with bronchial asthma on their medication adherence | Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Larisa V. Bogovin, Tatiana V. Platonkina |

**TP-26**

**Session 447**

**12:50 - 14:40**

**Thematic poster:** Clinical and functional monitoring in airway disease

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Physiology  General respiratory patient care  Cell and molecular biology
PA4434  Late Breaking Abstract - Effect on asthma control using a novel digital self-management system: a physician blinded randomised controlled cross-over pilot trial
Björn Nordlund (Bromma, Sweden), Anna Carleborg, Henrik Ljungberg

PA4435  Asthma control: how does patient perception relate to ACT and CARAT scores?
Telmo Guerreiro (Moita, Portugal), Inês Barreto, Catarina Teles Martins, Cristina Bárbara

PA4436  Association of the bronchodilator response using different methods: impulse oscilometry vs spirometry.
Idoia Salinas Garrido (Bilbao, Spain), Nuria Marina Malanda, Borja Ortiz De Urbina Antia, Ana Gomez Larrauri, Mikel Santiago Burruchaga, Juan B. Galdiz Iturri

PA4437  Assessment of the bronchodilator response using different methods: impulse oscilometry vs spirometry.
Björn Nordlund (Bromma, Sweden), Anna Carleborg, Henrik Ljungberg

PA4438  Tachyphylaxis and cough reflex sensitivity
Nicholas James (Cottingham, United Kingdom), Wesley Cheung, Caroline E Wright, Alyn H Morice

PA4439  Methacholine challenge test with impulse oscillometry versus spirometry: which is more sensitive in detecting airway hyper-responsiveness (AHR)?
Akbar Sharifi (Tabriz, Islamic Republic of Iran), Masoud Nazemiyeh

PA4440  Investigation of shortened lung clearance index (LCI) in the Bronch-UK Clinimetrics study.
Katherine O’Neill (Belfast (Belfast), United Kingdom), Gokul R. Lakshmipathy, Curtis Neely, Denise Cosgrove, Kathryn Ferguson, J. D. Chalmers, Mary Carroll, Anthony Desoyza, Timothy Gatheral, J. Stuart Elborn, Judy M. Bradley

PA4441  Small airway impairment in severe asthmatic patients
Luca Morandi (Ferrara (FE), Italy), Marco Contoli, Federico Bellini, Sara Soave, Giacomo Forini, Giulia Gnesini, Alberto Papi

PA4442  Exhaled breath profiling by electronic nose enabled discrimination of allergic rhinitis and extrinsic asthma.
Silvano Dragonieri (Bari (BA), Italy), Vitaliano Quaranta, Pierluigi Carratu, Teresa Ranieri, Onofrio Resta

PA4443  Electronic monitoring devices: the saviour of poor control in asthma?
Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Dominick Shaw

PA4444  Small airways disease evaluation in patients with mild/moderate asthma and correlation with bronchial hyperresponsiveness and disease control
Maria Kipourou (Thessaloniki, Greece), Pavlos Michailopoulos, Evangelos Ntinapogias, Christoforos Bikas, Georgios Spyropoulos, Konstantinos Kostikas, Stelios Loukides, Konstantinos Katsoulis

PA4445  A correlative analysis between spirometry and MostGraph using the 23306 data from 3979 patients in clinical practice.
Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Kentaro Ito, Kazuki Furuhashi, Yuta Suzuki, Haruko Saiki, Tadashi Sakaguchi, Yoichi Nishii, Osamu Hataji

PA4446  Airway hyperresponsiveness to mannitol is an independent marker of asthma control and disease phenotype
Asger Sverrild (København NV, Denmark), Christian Westergaard, Anna Von Bülow, Pernille Udesen, Simon Francis Thomsen, Vibeke Backer, Celeste Porsbjerg

PA4447  Usefulness of mannitol challenge testing for diagnosing asthma in everyday clinical practice
Charlotte Suppli Ulrik (Virum, Denmark), Sine Knag Pedersen, Amalie Sturis Ustrup, Camilla Boslev Bårnes

PA4448  Earlier use of fractional exhaled Nitric Oxide (FeNO) and challenge testing improves speed and accuracy of asthma diagnosis.
Jill MacLeod (Edinburgh (Edinburgh), United Kingdom), Tracey Bradshaw

PA4449  Multiple Breath Washout (MBW) training, certification and quality control during the iBEST-1 trial in bronchiectasis (BE).
Katherine O’Neill (Belfast (Belfast), United Kingdom), Michael M. Tunney, Gerhild Angyalosi, Charles Haworth, Michael R. Loebinger, Judy M. Bradley, J. Stuart Elborn

PA4450  A novel point of care test for sputum sample stratification prior to the quantitative measurement of active neutrophil elastase
Darragh McCafferty (Belfast (Belfast), United Kingdom), Kelly Moffitt, Charlene Robb, Diane Ramsay, Ashleigh Kennedy, Timothy Ferguson, Brian Walker
| PA4451 | Repeatability of PExA SPA and albumin as small airways dysfunction candidate biomarkers in Asthma. Marcia Soares (Leicester (Leicestershire), United Kingdom), Hatice Koca, Anna-Carin Olin, Salman Siddiqui |
| PA4452 | Evaluating the accuracy of commercially available finger pulse oximeters in a hospital setting Helen Liddicoat, Rory Mcdermott, Anna Moore, Louisa Jackson, Terry O'Shaughnessy, Nivenka Jayasekera, Vlad Macavei |
| PA4453 | Fractional exhaled nitric oxide (FeNO) suppression with directly observed inhaled corticosteroid therapy: does it make a difference to patient outcomes? Shoaib Faruqi (Cottingham, United Kingdom), Joanne Thompson, Terry Robinson, Karen Watkins, Helena Cummings, Nicola Jackson, Anoop Prakash, Michael Crooks |

**TP-27 Session 448**

**Thematic poster: Asthma, rhinitis and COPD: cells, mediators, biomarkers and genetics**

- **Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care
- **Method(s):** Epidemiology, Public health, General respiratory patient care, Cell and molecular biology
- **Chairs:** Konstantinos Samitas (Athens, Greece), Enrico Marco Heffler (Torino (TO), Italy), Ibon Eguiluz Gracia (Malaga, Spain), Cecilia K. Andersson (London, United Kingdom)

| PA4454 | Red cells distribution width as a potential biomarker in COPD. Sara Ramponi (Cingia de’ Botti (CR), Italy), Maurizio Marvisi, Laura Balzarini, Chiara Mancini, Chiara Marvisi |
| PA4455 | The selection of expressed biomarkers at the systemic and local level in patients with COPD Patrycja Nejman-Gryz (Warszawa, Poland), Magdalena Paplińska-Goryca, Małgorzata Probuszcz, Katarzyna Gór ska, Marta Maskey-Warzęchowska, Rafal Krenke |
| PA4456 | Eosinophils from healthy children (1-3 years) and adults express high levels of prostaglandin D2 receptor 2 (DP2) Veit Johannes Erpenbeck (Bazel, Switzerland), Pamela A Groh, Kristi L Curtsinger, Cross Sarah, Leon Jones, Surendra Machineni, Maciej Cabanski, Alessandra Vitaliti, Ying Pluess-Li, Aurelie Verles, Baskaran Dharmalingam, G K Khurana Hershey |
| PA4457 | Identification of a distinct eosinophil subpopulation in induced sputum from atopic asthmatics Eder Fredy Mateus Medina (Barcelona, Spain), Ruben Osuna Gomez, Cristina Ujaldón Miró, Astrid Crespo Lessman, Alba García Morales, Elena Curto Sánchez, Lorena Soto Retes, Vicente Plaza Moral, David Ramos Barbón |
| PA4458 | Eosinophil-derived neurotoxin (EDN) in healthy and asthmatic volunteers Simon Young (Melbourn, United Kingdom), Bert Rutten, Nisha Kuri an, Rabiya Hidi, Glen Hughes |
| PA4459 | Increased sputum B cells in severe eosinophilic asthma: a local auto-inflammatory process Hui Fang Lim (Singapore, Singapore), Sheau Ying Lim, Manali Mukherjee, Nada Suray Tan, Wai Shiu Fred Wong, Veronique Angeli |
| PA4460 | Effect of MTHFR C677T polymorphism on allergic airway disease in asthma patients Marina Lampalo (Zagreb, Croatia), Irena Jukic, Jasna Bingulac-Popovic, Ana Hecimovic, Nik ola Ferara, Sanja Popovic-Gril |
| PA4461 | 19 bp del DHFR POLYMORPHISM IN BRONCHIAL ASTHMA Margarida Castro (Lisbon, Portugal), Joana Ferreira, Diogo Sarmento, Carla Carvalho, Andreia Matos, Manuel Bicho |
| PA4462 | Polymorphism of genes (IL4, IL5) as genetic predisposition to asthma in children Svetlan Smirnova (Krasnoyarsk, Russian Federation), Marina Smolnikova, Olga Konopleva |
| PA4463 | Comparative analysis of the morphological features of the mucous membrane in various clinical forms of rhinitis Sadyk Gusniev (Moscow, Russian Federation), Tatyana Barkhina, Michail Guschin, Sergey Polner |
| PA4464 | Estimation of prevalence of grass pollen sensitization among patients with seasonal allergic rhinitis in Armenia Irina Morsikyan (Yerevan, Armenia), Armen Nazanyan, Ovssana Asatryan, Sevan Iritsyan, Artur Shukuryan |
| PA4465 | PREVALENCE OF SENSITIZATION TO AVIAN OR FUNGAL PROTEINS IN DIFFERENT WORK ENVIRONMENTS. Mª Jesus Cruz Carmona (Barcelona, Spain), Tomàs Montalvo, Iñigo Ojanuren, Christian Romero-Mesones, MariA-Dolores Untoria, Silvia Sánchez-DiEZ, Juan-Carlos Senar, Sandra Franco-Gutierrez, Victor Perachó-ToBeñA, Ferran Morell, Xavier MuñOz |
| PA4466 | Penicillium oxalicum, a dominant airborne fungal spore allergen from West Bengal, India Partha Karak (Kolkata (West Bengal), India), Sharmistha Das, Kashinath Bhattacharyya |
PA4467 Clinical peculiarities of seasonal respiratory allergy in children
Olena Kuznietsova (Zaporizhzhia, Ukraine), Svitlana Nedelska

PA4468 Peculiarities of cytokine concentration in patients with nasal polyposis and asthmatic triad
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Anna Lazareva, Oksana Kolenchukova

PA4469 The role of certain regulatory cytokines in the immunopathogenesis of extrinsic allergic alveolitis
Gulbahor Fazilova (Samarkand, Uzbekistan), Gulbahor Fazilova, Jamshid Ismailov, Nematilla Aralov

PA4470 Immunological features of active herpesviral infection in bronchial asthma
Anna Konishcheva (Moscow, Russian Federation), Valentina Gervazieva

PA4471 Serum leptin – is it associated with levels of airway responsiveness?
Louise Lindhardt Toennesen (Copenhagen, Denmark), Celeste Porsbjerg, Charlotte Suppli Ulrik, Lotte Harmsen, Vibeke Backer

PA4472 The diagnostic value of biomarkers in allergic and non-allergic asthma phenotype
Marina Lampalo (Zagreb, Croatia), Irena Jukic, Jasna Bingulac-Popovic, Nikola Ferara, Sanja Popovic-Grle

PA4473 Relationship between HLA-DQA1, -DQB1 gene polymorphism and susceptibility to pollen allergy in Russians
Bella Shamgunova (Astrakhan', Russian Federation), Natalia Astafieva, Ludmila Zaklyakova, Denis Kobzev

TP-28 Session 449 12:50 - 14:40

Thematic poster: Epidemiology of asthma, COPD and factors that associate with lung function

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Public health, General respiratory patient care, Epidemiology
Chairs: Tomas Mikal Lind Eagan (Bergen, Norway), Deborah Jarvis (London, United Kingdom), Linnea Hedman (Luleå, Sweden), Simone Accordini (Verona (VR), Italy)

PA4474 Late Breaking Abstract - COPD knowledge in a swiss frail selected population
Gregory Clark (La Chaux-de-Fonds, Switzerland), Marc Marechal, Dominique Monnin

PA4475 Montelukast and the risk of major adverse cardiovascular events – a Danish population-based case-control study
Daniel Pilsgaard Henriksen (Odense C, Denmark), Jesper Rømhild Davidsen, Christian B. Laursen

PA4476 Changes in asthma drug use in France between 2006 and 2015: a claims data study
Manon Belhassen (LYON, France), Maeva Nolin, Marine Ginoux, Eric Van Ganse

PA4477 An overview of asthma exacerbation hospital management in Portugal
Lígia Helena Pires Vicente (Portimão, Portugal), Ana Árrobas, João A Fonseca, Teresa Bandeira, Carla Sofia Loureiro, Claudia Catarina Loureiro, Filipa Todo Bont, Nélia Lima, Carlos Robalo Cordeiro

PA4478 Adherence to inhaled corticosteroids before and after an asthma-related hospitalisation: distinct trajectories
Manon Belhassen (LYON, France), Maeva Nolin, Marine Ginoux, Eric Van Ganse

PA4479 The simple 10-item PARC tool predicts childhood asthma in an external validation cohort
Eva Sophie Lunde Pedersen (Benz, Switzerland), Ben D Spycher, Carmen De Jong, Florian Halbeisen, Alban Ramette, Erol A Gaillard, A John Henderson, Raquel Granell, Claudia E Kuehni

PA4480 Association of household environmental factors and respiratory symptoms in children: a multicentric Italian study
Marzia Simoni (Pisa (PI), Italy), Sandra Baldacci, Mario Canciani, Carlo Pini, Luigia Maria Brunetti, Luciana Indinnimeo, Paolo Carrer, Annibale Biggerti, Piersante Sestini, Sara Maio, Fabio Ciabella, Gaspare Drago, Silvia Ruggieri, Giovanni Viogi

PA4481 Use of inhaled corticosteroids and the risk of osteoporosis: an international cohort study
Amelia Grosso (Pavia (PV), Italy), Lucia Cazzoletti, Federica Albicini, Erica Gini, Elisabetta Zanolin, Vanessa Ronzoni, Valentina Conio, Rita Di Domenica, Angelo Guido Corsico, Debbie Jarvis, Christer Janson, Isa Cerveri

PA4482 Risk factors of abnormal lung function in children and adolescents – data from the LEAD (Lung, hEart, sociAl, boDy) Study
Alina Ofenheimer (Wien, Austria), Marie-Kathrin Breyer, Matthias Urban, Sylvia Hartl, Otto Christian Burghuber, Andrea Schrott, Robab Breyer-Kohansal

PA4483 Mediation analysis of CRP on the association of physical activity with FEV1 and FVC: the ECRHS study.
Elaine Fuertes (Barcelona, Spain), Anne-Elie Carsin, Vanessa Garcia Larsen, Stefano Guerra, Isabelle Pin, Benedicte Leynaert, Simone Accordini, Jesus Martinez-Moratalla, Josep M Anto, Isabel Urrutia, Audrey Le Gouellec, Joachim Heinrich, Thorarinn Gislason, Rain JõGi, Christer Janson, Debbie Jarvis, Judith Garcia-Aymerich
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<th>ID</th>
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<tr>
<td>PA4484</td>
<td>Mortality rates of COPD Patients in UK Electronic Health Records (Clinical Practice Research Datalink)</td>
<td>Alicia Gayle (London, United Kingdom), Eleanor Axson, Chloe Bloom, Vidya Navaratnam, Jennifer Quint</td>
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<td>PA4485</td>
<td>Factors associated with recurrent admissions for bronchiectasis exacerbation in Asians</td>
<td>Isaac Fong (Singapore, Singapore), Anthony Yii, Sandra Hui, Teck Boon Low</td>
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<td>PA4486</td>
<td>Exacerbation frequency and eosinophil levels for GOLD C and D COPD patients currently prescribed multiple inhaler triple therapy (MITT)</td>
<td>Victoria Benson (Uxbridge (Middlesex), United Kingdom), James Siddall, Mark Small, Hana Muellerova</td>
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<td>PA4487</td>
<td>Prevalence of bronchial asthma and COPD in Baku</td>
<td>Gulzar Aliyeva (Baku, Azerbaijan), Irada Akhundova, Eljan Mammadbayov, Ilgar Mustafayev, Janina Makarova, Averyan Vasylyev, Kamalya Suleymanova</td>
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<td>PA4488</td>
<td>Different relation between exhaled nitric oxide and lung function with regard to current smoking</td>
<td>Elisabet Nerpin (Falun, Sweden), Debbie Jarvis, Mario Olivieri, Thorarinn Gislason, Anna-Carin Olin, Christer Janson, Andrei Malinovschi</td>
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<td>PA4489</td>
<td>Endothelial dysfunction is associated with impaired lung function in two independent community cohorts</td>
<td>Andreas Rydell (FALUN, Sweden), Christer Janson, Karin Lisspers, BjöRn SlåLberg, Christoph Nowak, Axel Carlsson, Tobias Feldreich, David Iggman, Lars Lind, Johan åRnløV</td>
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<td>PA4490</td>
<td>What’s in a postcode? Socioeconomic deprivation in the primary care 2015-17 COPD audit</td>
<td>Philip Stone (London, United Kingdom), Viktoria Mcmillan, Juliana Holzhauer-Barrie, Noel Baxter, C Michael Roberts, Jennifer Quint</td>
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<td>PA4491</td>
<td>Respiratory diseases admissions due to the smog episode in Warsaw in January 2017</td>
<td>Artur Badyda (Warszawa, Poland), Piotr Dąbrowiecki, Piotr Oskar Czechowski, Tomasz Owczarek, Andrzej Chciałowski</td>
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<tr>
<td>PA4492</td>
<td>Respiratory disease phenotypes in a general population sample: latent transition analysis</td>
<td>Sara Maio (Pisa (PI), Italy), Salvatore Fasola, Sandra Baldacci, Laura Carrozzi, Francesco Pistelli, Marzia Simon, Stefania La Grutta, Vito Muggeo, Giovanni Viegi</td>
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**TP-29  Session 450  12:50 - 14:40**  
**Thematic poster: Respiratory epidemiology: from infectious diseases to lung cancer**  
**Disease(s):** Respiratory infections, Respiratory critical care, Pulmonary vascular diseases, Sleep and breathing disorders, Thoracic oncology, Airway diseases, Respiratory infections  
**Method(s):** Respiratory intensive care, Epidemiology, Public health, General respiratory patient care  
**Chairs:** Per Sigvald Bakke (Bergen, Norway), Jennifer Quint (Wimbledon, United Kingdom), Giovanni Viegi (Pisa (PI), Italy), Valerie Siroux (La Tronche, France)  

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<tr>
<td>PA4493</td>
<td>Outdoor air pollution and lung function in middle-aged adults of the ELISABET study</td>
<td>Anaïs Havet (Villejuif, France), Sébastien Hulo, Damien Cuny, Florent Occelli, Natalie Cheron-Kornobis, Jonathan Giovannelli, Régis Matran, Philippe Amouyel, Jean-Louis Edmé, Luc Dauchet</td>
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<td>PA4494</td>
<td>Two years’ follow-up with real life quantitative measurement of ambulation under oxygen therapy in patients with chronic respiratory disease (ACTIMETRE study).</td>
<td>Lionel Lerousseau (Antibes Cedex, France), Ari Chaouat, Gilles Jebrak, Alain Palot, Daniel Piperno, Serge Verdier, Gilles Giannoli, Didier Perrin, Eric Leutenegger</td>
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<td>PA4495</td>
<td>Population prevalence of hypercapnic respiratory failure in south-western Sydney, Australia</td>
<td>Yewon Chung (Sydney (NSW), Australia), Frances Louise Garden, Guy Barrington Marks, Hima Vedam</td>
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<td>PA4496</td>
<td>Risk Assessment for Obstructive Sleep Apnea Syndrome and Excessive Daytime Sleepiness in a Greek nursing staff population using the Berlin Questionnaire and Epworth Sleepiness Scale</td>
<td>Sotirios Zarogiannis (Larisa, Greece), Alexia Alexandropoulou, George Vavougios, Chrissi Hatzoglou, Konstantinos Gourgoulis</td>
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<td>PA4497</td>
<td>Hospitalizations for pulmonary hypertension in Switzerland 2002-2015</td>
<td>Fabian Aigner (Zürich, Switzerland), Florent Baty, Sebastian Tonko, Otto Dagobert Schoch, Martin Brutsche</td>
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<td>PA4498</td>
<td>Change in age distribution of critically ill patients in an aging society</td>
<td>Song-I Lee (Seoul, Republic of Korea), Chae-Man Lim</td>
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<td>PA4499</td>
<td>A systematic review of comorbidities and outcomes of patients with pleural infection</td>
<td>Maged Hassan (Alexandria, Egypt), Tamsin Cargill, John Corcoran, Elinor Harriss, Rachelle Asciak, Rachel Mercer, Rob Halifax, Najib Rahman</td>
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Survival impact of comorbidity in German Lung Cancer patients - a claims data-based 'Comorbidome'
Larissa Schwarzkopf (Neuherberg, Germany), Monika Murawski

Cardiopulmonary diseases and lung cancer mortality due to PM2.5 exposure in 11 Polish Agglomerations in 2006-2015
Artur Badya (Warszawa, Poland), Piotr Dąbrowiecki

Vaccination rates against pneumococcal and influenza infection in hospitalized cardiologic and pneumologic patients need to be improved.
Elisabeth Smolle (Graz, Austria), Tanja Roebreiter, Holger Flick

Burden of influenza and impact of seasonal vaccination in Europe - a ten year forecast.
Devashri Mukherjee (Bangalore (Karnataka), India), Nicole Zhang, Lade Ayodele

The etiological role of common respiratory viruses in acute respiratory infections in older adults: A systematic review and meta-analysis
Ting Shi (Edinburgh (Edinburgh), United Kingdom)

The prevalence and clinical profile of non-tuberculous mycobacterial pulmonary infection in Singapore
Albert Lim (Singapore, Singapore), Cheryl Khoong, Akash Verma, John Abisheganaden

Etiology of bronchiectasis in Finland
Jarkko Mäntylä (Espoo, Finland), Wiolet Mazur, Arja Viinanen, Minna Purokivi, Paula Kauppi

The incidence of acute respiratory viral infections and pneumonia in the Central administrative district of Moscow.
Tatiana Bilichenko (Moscow, Russian Federation), Maryana Tubekova, Olga Gruzdeva, Larisa Astachova

Lung cancer incidence trends in Croatia: emergency for public health interventions
Marina Polić Vižintin (Zagreb, Croatia), Ingrid Tripković, Suzana Kukulj, Zvonimir ŠOstar

Obstructive Sleep Apnea (OSA) Assessment in the elderly. Preliminary results.
Pierluigi Intiglietta (Bari (BA), Italy), Giulia Gaudioso, Giorgio Castellana, Lorenzo Marra, Giancarlo Logroscino, Onofrio Resta

Childhood TB deaths in a Romanian County, 1998-2015; causes and significance
Adriana Sorete Arbore (Iasi, Romania), Violeta Cojocariu

Smoking and lung cancer in Albania
Daniela Xhemalaj (Tirana, Albania), Perlat Kapisyzi, Hasan Hafizi, Silva Bala, Ilir Peposhi, Marius Krushova, Alma Andoni, Asela Hasa, Elona Hila

Protective effects of nootkatone against particles-induced lung injury caused by diesel exhaust is mediated via the NF-κB pathway
Abderrahim Nemmar (Al-Ain, United Arab Emirates), Suhail Al-Salam, Sumaya Beegam, Priya Yuvaraju, Badreddin H Ali

Seasonal variation of exacerbation and patient-reported outcomes (PROs) in chronic obstructive pulmonary disease (COPD)
Tsung Yu (Tainan, Taiwan), Anja Frei, Gerben Ter Riet, Milo Puhan

Symptoms of moderate exercise in subzero temperatures - An experimental exposure study
Linda Eklund (Spånga, Sweden), Filip Schagatay, Rita Sjöström, Lars Söderström, Helen Hanstock, Thomas Sandström, Nikolai Stenfors

Exposure to air pollution and incidence of pneumothorax
Maher Maoua (Sousse, Tunisia), Haifa Aroui, Sana Aissa, Asma Chouchane, Mariem Hafisia, Kacem Imen, Sana El Guedri, Aicha Brahem, Houda Kalboussi, Olfa Elmaalel, Souheil Chatti, Ahmed Abdelghani, Mohamed Benzarti, Najib Mrizek
PA4516 Biomass smoke exposure and respiratory health in Madagascar
Rondro-Nirina Raharimanana (Majunga 40, Madagascar), Andrianandrasana Herizo Rajaony, Daniella Randriamanana, Jocelyn Rakotomiazao, Joelson Rakotoson, Michel Tiaray Harison, Njaka Andriamahenina, Ange Andrianarisoa, Andrianaivo Ralison, Denis Charpin, Brigitte Raheloina, Jean De Dieu Marie Rakotomanga, Pierre L'Her, Jean-Marie Tschopp, Raelolina Andriambololona, Chantal Raherison-Semjen

PA4517 Influence of the duration of working in a textile factory on respiratory functions and sleep quality
Buse Sortoglu (İstanbul, Turkey), İrem Kurt, Semiramis Özyılmaz, Ertuğrul Safran, Hülya Nilgün Gürses

PA4519 Seasonality of Pulmonary Tuberculosis in Sousse (Tunisia): Analysis of time series
Aissa Sana (Sousse, Tunisia), Maoua Maher, Sfxi Raoudha, Benzarti Wafa, Gargouri Imen, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Mrizek Nejib, Benzarti Mohamed

PA4521 Profile of high altitude pulmonary edema (HAPO) among young healthy recruits.
Mahaveera Nbnm Prasad (Bengalure (Karnataka State), India)

PA4522 Periodic workplace screenings: are pulmonary function tests performed with right technique?
Peri Meram Arbak (Düzce, Turkey), Ipek Ozmen, Savas Kanbur, Elif Yildirim, Reyhan Yildiz, Birsen Ocakli

PA4523 Socioeconomic and quality of life impact of work-related asthma in São Paulo, Brazil
Lavinia Clara Del Roio (São Paulo (SP), Brazil), Mario Terra-Filho, Ubiratan Paula Santos

PA4524 Exposure-response relations in occupational rhinitis in textile workers: time of onset.
Maheur Maoua (Sousse, Tunisia), Houda Rouis, Ahmed Abdelghani, Sana Aissa, Sana Guedri, Imene Kacem, Aicha Brahem, Houda Kalboussi, Olfa Elmaalel, Souhail Chatti, Nejib Mrizak

PA4525 Worker in a tatami factory: Case report of asthma in a complex and multiple occupational exposure
Daniel Bruno Takizawa (Sao Paulo (SP), Brazil), Philippe Colares, Gabriela Lins Medeiros De Assunção, Elisa Maria Siqueira Lombardi, Rafael Fitoso Mizutani, Gustavo Faibischew Prado, Mario Terra-Filho, Ubiratan De Paula Santos

PA4526 Long-term respiratory effects of exposure to welding fumes: Quebec apprentice cohort study
Eva Suarthana (Montréal (Québec), Canada), Meshack Achore, Mahsa Taghiakbari, Catherine Lemiere, Mounia Rhazi, Denys Gauthier, Marianne El-Zein

PA4527 AVERNESS OF POLISH PULMONOLOGISTS ABOUT THE IMPACT OF AIR POLLUTION ON HEALTH
Tadeusz Zielonka (Warsaw, Poland)

PA4528 Influence of Smoking, Environmental Factors and Life Style on Lung Function in a Large German Cohort
Rainer G. Wiewrodt (Münster, Germany), Bianca Höpfner, Charlotte Aries, Lars Henning Schmidt, Arik Bernard Schulze, Karlheinz Blackert, Marion Wencker, Felix J. Herth

PA4529 Tapioca starch powder as a new cause of occupational asthma in bakers
Irfan Muhammad (Karachi, Pakistan), zohaib akhter, Asaad Ahmed Nafees, Unaib Rabbani, Shama Razzaq

PA4530 The 6-minute walk test as a prognostic marker in patients with silicosis
Victoria Arnalich Montiel (Vigo, Spain), Jose Alberto Fernandez Villar, Jose Jesus Blanco Perez

TP-31 Thematic poster: Epidemiology of the use of traditional and emerging tobacco products and e-cigarettes

Disease(s): Airway diseases Thoracic oncology Interstitial lung diseases
Method(s): General respiratory patient care Surgery Epidemiology Public health
Chairs: Elif Dagli (İstanbul, Turkey), Mateusz Jankowski (Katowice, Poland), Paraskevi Katsaounou (Athens, Greece), Keir E. Lewis (Llanelli (Dyfed), United Kingdom)

PA4534 Assessment of Water Pipe Use in Hospitality Establishments in Istanbul
Elif Dagli (İstanbul, Turkey), Pınar Ay, Osman Elbek, Fusun Yildiz, Tanzer Gezer, Murat Ceyhan, Murat Guner

PA4535 Assessment of Smoke-Free Compliance in Enclosed Spaces of Hospitality Establishments in Istanbul between 2013 and 2017
Elif Dagli (İstanbul, Turkey), Pınar Ay, Fusun Yildiz, Osman Elbek, Tanzer Gezer, Murat Ceyhan

PA4536 Domestic Exposure to Tobacco Smoke in Children
Farshad Sharifi (Tehran, Islamic Republic of Iran), Mehdi Varmaghani, Mohammad Reza Masjedi, Masoume Mansouri, Gita Shaffiee, Payam Roshanfekr
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<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>PA4553</td>
<td>Opinion, habits and impact of new antitobacco law on Romanian medicine students</td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania), Teodor Cristian Bliadaru, Horea Constantin Chirila, Ruxandra Ulmeanu</td>
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<tr>
<td>PA4554</td>
<td>Student in medicine and e-cigarette</td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania), Andrei Voicu, Ruxandra Ulmeanu</td>
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<td>PA4555</td>
<td>Smoking rate among patients and caregivers seen in the respiratory emergency department of a tertiary hospital</td>
<td>Stamatoula Tsikrika (Athens, Greece), Martha Andritsou, Ioannis Kalomenidis, Spyros Zakynthinos, Paraskevi Katsaounou</td>
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<td>PA4556</td>
<td>Pre-post pilot study of a one day smoking cessation training for health care professionals in charge with high risk smokers</td>
<td>Letitia Trofor (Iasi, Romania), Ioana Buculei Porosnicu, Sophia Papadakis, Constantine Vardavas, Antigona Trofor, Panagiotis Behrakis</td>
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<td>PA4557</td>
<td>How can we improve smoking cessation practices on the acute medical unit?</td>
<td>Oscar Atkins (Bristol (Avon), United Kingdom), Kunaal Kaushik, Ricky Sharma</td>
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<td>PA4558</td>
<td>Comparing primary care and hospital physicians’ knowledge, behaviour and attitudes towards smoking cessation and effectiveness of a training seminar</td>
<td>Joana Sofia Vicente De Carvalho (Bobadela LRS, Portugal), Inês Oliveira, Ana Alves Santos, Rafaela Campanha, Inês Ribeiro, Cátia Guimarães, Marta Fradinho, Cristina Matos, Fernando Nogueira</td>
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<td>PA4559</td>
<td>Comparing smoking cessation knowledge and attitudes between junior and senior doctors prior a one-day training intervention</td>
<td>Inês Lourenço Farias Carrilho De Oliveira (Almada, Portugal), Joana Carvalho, Ana Alves Santos, Rafaela Campanha, Inês Ribeiro, Cátia Guimarães, Marta Fradinho, Cristina Matos, Fernando Nogueira</td>
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<td>PA4560</td>
<td>A national-wide survey of tobacco control curricula in medical schools</td>
<td>Sofia Belo Ravara (Covilha, Portugal), Vera Afreixo, Carlos Albuquerque, Mónica Condinho, Marilí Santos Rua, Pedro Aguiar, Jorge Bonito</td>
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<td>PA4561</td>
<td>Tobacco and e-cigarette use, and exposure to SHS among health sciences students: a national cross-sectional study</td>
<td>Sofia Belo Ravara (Covilha, Portugal), Vera Afreixo, Mónica Condinho, Marilí Santos Rua, Carlos Albuquerque, Pedro Aguiar, Jorge Bonito</td>
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<tr>
<td>PA4562</td>
<td>Prevalence and determinants of cigarette smoking among university students</td>
<td>Dilek Karadoğan (Rize, Turkey), Yalçin Kanbay, Özgür Önal, Deniz Say şAhin</td>
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<td>PA4564</td>
<td>Effect of passive cigarette smoke inhalation on college students</td>
<td>Daryna Semotyuk (Lviv, Ukraine), Khystyna Volnytska, Olha Tolokh, Taras Semotiuk</td>
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<td>PA4565</td>
<td>Tobacco smoking problems at children and students.</td>
<td>Evelina Lokshina (Chernogolovka, Russian Federation), Eugenia Tolstova, Tatiana Rychkova, Olga Zaytseva</td>
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<td>PA4566</td>
<td>Smoking - family structure of origin and other determining factors</td>
<td>Kleya Medeiros Maia Silva (Cuiaba (MT), Brazil), Cor Jesus Fernandes Fontes, Ubiratan Paula Santos</td>
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<td>PA4567</td>
<td>The practical evaluation of the prophylactic anti-smoking multi-modal program in adolescents</td>
<td>Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Igor Ivanovich Berezin, Vasiliy Fedorovich Piatin, Artyom Konstantinovich Sergeev, Egor Dmitrievich Mokin</td>
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<td>PA4568</td>
<td>The influence of peer smoking in smoking behaviour of adolescents</td>
<td>Dimitra Mpousiou (Agiou Dimiropou (Athens), Greece), Dimitra Lamprou, Michael Tougouris, Martha Andritsou, Areti Karathanasi, Dimitris Fouskakis, Therodora Katsaounou, Efthimios Zervas, Paraskevi Katsaounou</td>
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<td>PA4569</td>
<td>Smoking cessation counselling - taking family in a stride</td>
<td>Manu Chopra (Ranchi (Jharkhand), India), Vasu Vardhan, Meenakshi Chopra</td>
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<td>PA4570</td>
<td>Disclosure of smoking in adolescents: a feasibility study</td>
<td>Colette Datt (St Albans (Hertfordshire), United Kingdom), John Moreiras, Amir Hakim, Myra Stern</td>
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<td>PA4571</td>
<td>The effect of parental smoking and smoking inside the house in the adolescents attitude towards smoking</td>
<td>Dimitra Mpousiou (Agiou Dimiropou (Athens), Greece), Dimitra Lamprou, Michael Tougouris, Therodora Katsaounou, Dimitris Fouskakis, Marina Moscholaki, Areti Karathanasi, Christina Gratziou, Efthimios Zervas, Paraskevi Katsaounou</td>
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TP-33  
Session 454  
12:50 - 14:40

Thematic poster: Improvements in the assessment of paediatric physiology
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<th>Disease(s) :</th>
<th>Sleep and breathing disorders, Airway diseases, Interstitial lung diseases</th>
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<tr>
<td>Method(s) :</td>
<td>Epidemiology, Imaging, General respiratory patient care, Physiology, Public health</td>
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<td>Chairs :</td>
<td>Nicole Beydon (Paris, France), Melania Evangelisti (Roma (RM), Italy), Jenny Hallberg (Stockholm, Sweden), Kathryn Ramsey (Bern, Switzerland)</td>
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**PA4572** Forced Expiratory Flows and Volumes in a Swedish Cohort of Healthy Term Infants
Paraskevi Kosma (Sundbyberg, Sweden), Charlotte Palme-Kilander, Matteo Bottai, Henriik Ljungberg, Jenny Hallberg

**PA4573** Comparison of bronchodilator responsiveness between forced oscillation technique and spirometry
Eero Lauhkonen (Tampere, Finland), Eero Lauhkonen, SIndhu Sivagnanasithiyar, Georgios Kaltsakas, Richard Iles

**PA4574** Detection of heterogeneous lung emptying by shape of forced expiratory flow-volume curve in asthmatic children
David Richard (Nancy, France), Sabrina Khelif, Stéphanie Metche, Aurelie Tatopoulos, Sébastien Kiefer, Claude Bonabel, Cyril Schweitzer, François Marchal, Silvia Demoulin-Alexikova, Iulia Ioan

**PA4575** Pulmonary Function in Young Wind Instrument Players
Elpida Hatziagorou (Thessaloniki, Greece), Aikaterini Koutou, Alexandra Hristara – Papadopoulou, John Tsanakas

**PA4576** Reference values of impulse oscillometry and their correlation with predictors in healthy Turkish preschool children
Zeynep Seda Uyan (Istanbul, Turkey), Ayla Gunlemez, Canan Baydemir, Fatih Kilincbay, Refika Ersu

**PA4577** Global Lung function Initiative (GLI) prediction equations fit the normal lung function in Bulgarian and Roman children
Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Blagoi Marinov, Stefan Kostianey

**PA4578** Longitudinal assessment of lung function in patients with pectus excavatum (PE)>
Daniel Trachsel (Basel, Switzerland), Emanuela Zannin, Raftaelle Dellacà, Frank Martin Haecker, Thierry De Troy

**PA4579** Respiratory function in adolescents with idiopathic disorders of the spinal column.
Athina Papadopoulou (Athens, Greece), Katerina Mikelatou, Achileas Boutis, Emmanouil Tsafantakis, Despina-Zoe Mermiri

**PA4580** Assessment of respiratory function in adolescents with idiopathic scoliosis treated with brace.
Athina Papadopoulou (Athens, Greece), Katerina Mikelatou, Achileas Boutis, Emmanouil Tsafantakis, Despina-Zoe Mermiri

**PA4581** Exercise may improve airway clearance and alleviate hyperinflation in children with Cystic Fibrosis
Kate H Regan (Eskbank, United Kingdom), Sarah Blacklock, Donald Urquhart

**PA4582** Short- and mid-term reproducibility of lung clearance index in children with cystic fibrosis and healthy controls
Bettina Sarah Frauchiger (Bern, Switzerland), Sylvia Nyilas, Kathryn Ramsey, Philipp Latzin, Sophie Yammine

**PA4583** Normative data for the new setup of the SF6 multiple-breath washout in unsedated infants
Johanna Manuela Kurz (Bern, Switzerland), Andras Laszlo Sot, Bettina Sarah Frauchiger, Insa Korten, Pinelopi Anagnostopoulou, Kathryn Ramsey, Philipp Latzin

**PA4584** A transition evening is a popular and effective way to deliver high quality transition in respiratory paediatrics
Alison Scott (Tadcaster, United Kingdom), Emma Sheppard, Nichola Butler, Anita Critchlow

**PA4585** Measures of nocturnal oxyhemoglobin desaturation in children with obstructive lung disease or sleep-disordered breathing
Athanasiou G. Kadosis (Athens, Greece), Georgia Katsouli, Anastasia Polytarchou, Marina Tsauoussoglou, Polytimi Panagiotopoulou-Gartagani

**PA4586** Sleep clinical record and polysomnography scores in adolescents with sleep disordered breathing
Melania Evangelisti (Roma (RM), Italy), Martina Forlani, Marco De Pozzo, Maria Elena Liverani, Maria Pia Villa

**PA4587** Unsupervised polysomnography in children: a technical and economic study
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Iury Lima, José Vicente Tagliarini

**PA4588** Assessment of Signal Integrity in Paediatric Cardiorespiratory Sleep Studies
Ansel Godinho (London, United Kingdom), Kylie Russo, Aidan Laverty, Martin Samuels, Francois Abel

**PA4589** Obstructive Sleep Apnea Syndrome (OSAS): A threatening ghost for β Thalassemia Major Children
Luci Suliman (Mansoura, Egypt), Suzy Abdulmabood

**PA4590** Retrospective analysis of sleep breathing disorders in mucopolysaccharidosis type IVA
Giulia Facchina (Caurle (VE), Italy), Alessandro Amaddeo, Sonia Khirani, Genevieve Baujat, Syril James, Sylvain Breton, Brigitte Faurox
TP-34  
Session 455  
12:50 - 14:40

Thematic poster: Paediatric asthma: new insights in its prevalence, treatment and treatment failure

Disease(s): Sleep and breathing disorders, Airway diseases

Method(s): Public health, Epidemiology, General respiratory patient care

Chairs: Giorgio Piacentini (Verona (VR), Italy), Thomas Janssens (Leuven, Belgium), Giuseppe Fabio Parisi (Catania (CT), Italy), Theofilos Polychronakis (Cambridge (Cambridgeshire), United Kingdom)

PA4591 Results of nocturnal oximetry in native and non-native children and adolescents residents at 2,418 m.
Juan Carrillo Azocar (Santiago, Chile), Manuel Vargas, Pablo Vargas, Khanty Loyola

PA4592 Late Breaking Abstract - What do children, parents and paediatricians feel about the risk of growth suppression of inhaled corticosteroids?
Ole D. Wolfhers (Randers, Denmark)

PA4593 Late Breaking Abstract - Effect of supplementation with vitamin D on acute bronchitis prevention during the first year of life
Antonio Moreno Galdo (Sant Cugat del Vallès (Barcelona), Spain), Ana Lopez De Aguileta, Pilar Terradas Mercader, Assumpció Clopes Estela, Maria Inmaculada Merino Marcos, Javier Korta Murua, Maite Labiano Asuncion, Maria Rosa Pique Alejandre, Juliana Carmen Trifiu, Pilar Suñé Martin, Roser Ferrer Costa, Anna Garcia Sangenis, Rosa Morros Pedro, Antonio Carrascosa Lezcano, Ines De Mir Messa

PA4594 An exploratory questionnaire to assess the confidence levels of practice nurses when managing asthma in children within local General Practices
Anita Critchlow (Hope Valley (South Yorkshire), United Kingdom), Elphick Heather

PA4595 Improving Paediatric asthma care - a one stop nurse led approach
Sally Hails (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Samantha Moss, Jen Townshend

PA4596 Can exposure to nitrogen dioxide concentration be reduced by a simple action plan?
Lee Koh (London, United Kingdom), Steve Cunningham, Jonathan Grigg

PA4597 Acute childhood asthma significance from health care workers’ and caregivers’ perspective in a low resource setting: a qualitative study.
Cristina Arduña-García (Madrid, Spain), Philip Cooper, John Blakey, Natalia Romero-Sandoval

PA4598 Physical activity in 6 to 17 years old children with controlled asthma in a pediatric pulmonology tertiary center.
Cyril Schweitzer (Vandoeuvre-Les-Nancy, France), Méryl Simermann, Maud André, Aurore Blondé, Stéphanie Metche, Sébastien Kiefer, Iulia Ioan, Silvia Demoulin-Alexikova, Aurélie Tatoopoulos

PA4599 Efficiency of physiotherapy with Caycedian Sophrology on children with asthma: a randomized controlled trial.
Anne Requirand (CARNON, France), Huguette Romieu, Françoise Charbonnier, Dora Janka, Aymeric Douillard, Valerie Macioce, Kathleen Lavastre, Hamouda Abassi, Marie-Catherine Renoux, Thibault Mura, Pascal Amedro

PA4600 Home monitoring of asthmatic children with connected sensors
Nico Willard (Eindhoven, Netherlands), Bert Den Brinker, Marian Dekker, Daniele De Massari, Mareike Klee, Fik Van Lint

PA4601 Usefulness of portable spirometry in addition to clinical asthma control score (C-ACT) in atopic children before performing an oral food challenge.
Mathilde Jouget (NANCY, France), Cyril SCHWEITZER, Silvia Demoulin-Alexikova, Amandine Luc, Iulia Ioan, Pascale Dumond, Amandine Divaret-Chauveau

PA4602 Childhood asthma control and compliance with respect to parental concerns about treatment
Elif Dagli (Istanbul, Turkey), Miray Kosten, Gamze Gul, Hazal Gul Yesil, Merve Gul, Mina Gholami-Baroughi

PA4603 The association of physical activity and sedentary lifestyle with asthma in childhood
Emilija Vlashki (Skopje, FYROM (Macedonia)), Valentina Cvejoska Cholakovska, Mica Kimovska, Lidija Seekova, Tara Ristevska, Joshua Lawson

PA4604 ‘In Control’ - changing asthma attitudes in adolescents through drama
Gioia Mosler (London, United Kingdom), Katherine Harris, Jonathan Grigg

PA4606 Patient engagement in a paediatric difficult asthma clinic.
Sonal Kansra (Sheffield (South Yorkshire), United Kingdom), Simon Gosling

PA4607 Validation of the Pediatric Asthma Caregiver Quality of Life Questionnaire (PACQLQ) in young Argentinean children
Luciano Enrique Busi (Trelew (Chubut), Argentina), Valeria Bonamino, Peter David Sly
Self-reported prevalence of asthma symptoms in Kharkiv (Ukraine) according to the International Study of Asthma and Allergies in Childhood (ISAAC)
Yuliia Karpushenko (Kharkiv, Ukraine), Viktoriia Klymenko, Olga Kozhina

The prevalence of asthma and related atopic diseases in Sri Lankan children from 2001 to 2013 utilizing the International Study of Asthma and Allergies in Childhood (ISAAC) questionnaire
D Lakmali Amarasiri (Malabe, Sri Lanka), Kirthi D Gunasekera, Amitha Fernando, Rajitha Wickramasinghe

Montelukast: neuropsychiatric adverse drug reactions in Tunisian asthmatic children
sarra ammari (manouba, Tunisia), Anissa Berriës, Besma Hamdi, Emna Ben Jemia, Jamel Ammar, Agnès Hamzaoui

Thematic poster: Cystic fibrosis in paediatric patients: current research

In vitro activity of colistin in combination with N-acetylcysteine against Pseudomonas aeruginosa
Lucia Pallecchi (COLLE DI VAL D'ELSA (SI), Italy), Simona Pollini, Tiziana Di Maggio, Daniela Girelli, Antonio Teri, Lisa Cariani, Stefano Aliberti, Francesco Blasi, Francesco Sergio, Gian Maria Rossolini

Exhaled breath analysis by ion mobility spectrometry in children with asthma and cystic fibrosis
Michiel Bannier (Maastricht, Netherlands), Kim Van De Kant, Jorg Baumbach, Quirijn Jobsis, Edward Dompeling, Sandra Barnowski (sandra.barnowski@dbmr.unibe.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern), Andrea Stokes (Andrea.Stokes@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern), Thomas Geiser (Thomas.Geiser@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern), Lars Knudsen (knudsen.lars@mh-hannover.de / Functional and Applied Anatomy Medical School Hannover,Hannover), Manuela Funke-Chambour (Manuela.Funke-Chambour@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern)

Antibodies against Pseudomonas aeruginosa in patients with cystic fibrosis – clinical application
Snezhina Lazova (Sofia, Bulgaria), Guergana Petrova, Penka Perenovska, Spaska Lesichkova, Dimitrinka Miteva, Kristina Cholakova, Tanya Strateva

Induction of innate immune response in fresh human lung tissue ex vivo following P. aeruginosa infection
Sabine Wronski (Hannover, Germany), Laura Mueller, Nadine Kraemer, Peter Braubach, Danny Jonigk, Hans-Gerd Fieguth, Olaf Pfennig, Claus Bersch, Armin Braun, Katherina Sewald

Association of HLA-DR alleles with pulmonary cystic fibrosis
Esmail Mortaz (Tehran, Islamic Republic of Iran), Alireza Asef, Hosseinali Ghaffariour, Ian Adcock

Effectiveness of mechanical insufflation-exsufflation device in pediatric patients with cystic fibrosis
Atefeh Fakharian (Tehran, Islamic Republic of Iran), Saba Karimzade, Mohsen Abedi, Shahram Kharabian Masouleh, Leilkan Shordel, Soheila Khalilzadeh

Oxygen uptake kinetics in walking children with cystic fibrosis
Yann Combret (Rouen, France), Clément Médral, Guillaume Prieur, Aurora Robledo Quesada, Pascal Le Roux, Grégory Reychler

Home monitoring of respiratory rate from pulse oximetry in children with cystic fibrosis
Paul Seddon (West Sussex, United Kingdom), David Wertheim, Cathy Olden, Liz Symes, Claire Edmondson, Jane Davies, Keith Brownlee

Evaluation of user behaviour with an Oscillating Positive Expiratory Pressure (OPEP) device in paediatric cystic fibrosis patients
Kevin J. O'Sullivan (Limerick, Ireland), Leonard O'Sullivan, Colum Dunne, Deirdre Megraith, Barry Linnane

What is a NICE definition of lung disease in patients with Cystic Fibrosis and its impact on treatment?
Georgina Dick (Essex, United Kingdom), Stephen J Bourke, Carlos Echevarria, Simon J Doe

Comparative Evaluation of Clinical, Spiro/Oscillometric and Tomographic Parameters As A Global Assessment of Children With Cystic Fibrosis
Ozge Yilmaz (Manisa, Turkey), Esra Toprak Kanik, Ali Kanik, Ece Ozdogru, Yurda Simsek, Hudaver Alper, Hasan Yuksel

The effect of spirometry on multiple breath washout outcomes in children with cystic fibrosis
Jacky Wai Yeung Au (Toronto (ON), Canada), Reginald Mcdonald, Sanja Stanojevic, Felix Ratjen
PA4624 Does the lung clearance index track from preschool to school age in children with cystic fibrosis?
Michelle Klingel (Toronto (ON), Canada), Sarah Isaac, Sanja Stanojevic, Renee Jensen, Melinda Solomon, Hartmut Grasemann, Valerie Waters, Neil Sweezey, Stephanie Davis, Felix Ratjen

PA4625 Does physiotherapy affect Lung Clearance Index in Cystic Fibrosis patients?
Fotios Kirvassilis (Oraiokastro, Greece), Elpis Hatzigiorou, Eleanna Kouroukl, Maria Parisi, Pavlina Peftoulidou, Isaia – Christina Mouratidou, John Tsanakas

PA4626 A music therapy intervention as an adjunct to chest physiotherapy in children with cystic fibrosis
Javier Perez Frias (Malaga, Spain), Alberto Montero-Ruiz, Laura A. Fuentes Galvez, Estela Perez-Ruiz, M. Paz Diaz Huelamo, Elisa Martin-Montañe

PA4627 Early renal involvement in children with cystic fibrosis.
Walaa Shahin (Giza, Egypt), Ahmed Badr, Walaa Rabie, Rawdah Ahmed, Mona Mohsen, Mona El-Falaki

PA4628 Newborn Screening for Cystic Fibrosis in Wales over 20 years. Changes in incidence dependent on screening protocol
Chris Course (Cardiff, United Kingdom), Iolo J.M. Doull, Ruth Hanks, Stuart Moat

PA4629 Newborn screening for Cystic Fibrosis over 20 years and the identification of affected not detected infants.
Ruth Hanks (Vale of Glamorgan, United Kingdom), Iolo J.M. Doull, Christopher Course, Stuart Moat

TP-36 Session 457 12:50 - 14:40
Thematic poster: Paediatric respiratory infections: mechanistic insights and clinical outcomes

Disease(s): Respiratory infections, Airway diseases, Interstitial lung diseases, Respiratory infections

Method(s): Respiratory intensive care, Physiology, Epidemiology, General respiratory patient care, Cell and molecular biology, Public health

Chairs: Ahmad Kantar (Bergamo (BG), Italy), Mark Everard (Perth (WA), Australia), Evelien R. van Meel (Rotterdam, Netherlands), Giulia Cangiano (Verona (VR), Italy)

PA4631 Late Breaking Abstract - Presence of coinfection is associated with a longer hospital stay in children with laboratory -confirmed pertussis
wang yuqing (Suzhou, China)

PA4632 Investigating the mechanisms of Bordetella pertussis-induced airway inflammation.
Giorgio Fedele (Rome, Italy), Ilaria Schiavoni, Pasqualina Leone

PA4633 Molecular characterisation and clinical presentation of Mycoplasma pneumoniae lower respiratory tract infections in children
Jasna Rodman Berlot (Ljubljana, Slovenia), Darja Keše, Marina Praprotnik, Tatjana Mrvič, Rok Kogoj, Uroš Krivec

PA4634 The influence of modern microbiological methods on the antibiotic treatment of pneumonia in children
Vojko Berce (Murska Sobota, Slovenia), Maja Tomazin, Brigita Koren, Barbara Lovrencic

PA4635 Intrapleural use of dornase alfa and tissue plasminogen activator are successful as treatment in pediatric empyema: a pilot study
Monique Slaets (Edegem (Antwerp), Belgium), Jozef De Dooy, Patrick Lauwers, Paul Van Schil, Stijn Verhulst, Jeroen Hendriks

PA4636 Inhibitory effect of naringenin in airway mucus hypersecretion and the possible mechanism
Xiaoguang Hu (Wenzhou (Zhejiang), China), Hai Lin Zhang, Shan-Shan Meng, Fang-Fang Lv, Li Lin

PA4637 Cytokines profile in RSV infection according to nutritional status.
Loreto Fuenzalida (santiago, Chile), Guisselle Arias, Jaime Inostroza, Diego Garcia-Diaz, Gustavo Valderrama

PA4638 The role of innate lymphoid cells in early life lung infection
Dawid Swieboda (London, United Kingdom), Ryan Thwaites, Simon Nadel, Trevor Hansel, Peter Openshaw, Fiona Culley

PA4639 Chitinase 3-like 1 protein plays a critical role in RSV-induced airway inflammation
Myunghyun Sohn (Seoul, Republic of Korea), Minjung Kim, Doohoe Shim, Jaemyun Lee

PA4640 Differences between innate response in children with bronchiolitis versus recurrent wheezing.

PA4641 Bronchiolitis under 6 months of age: time for changing definition?
Laura Petrarca (Roma (RM), Italy), Raffaella Nenna, Antonella Frassanito, Alessandra Pierangeli, Greta Di Mattia, Carolina Scagnolari, Chiara Urban, Marianna Di Martino, Domenico La Regina, Vincenzo Ferraro, Fabio Midulla
A phase-III multicenter, randomized, double-blind, controlled trial of high-dose inhaled nitric oxide in infants with acute bronchiolitis.
Aviv Goldbart (Beer Sheva, Israel), Inbal Golan-Tripto, Giora Pillar, Galit Levnat-Levanon, Ori Efrati, Ronen Spiegel, Romit Lubetzky, Moran Lavie, Lior Carmon, Mark Mizrahi, Amit Nachum

Inhaled fraction and granulometry of hypertonic saline solution Aerosol for the ambulatory management of newborn babies with viral bronchiolitis: size matters.
Matthieu BREMOND (TOURS, France)

Respiratory readmission rates differ in the year following hospitalisation with RSV and non-RSV bronchiolitis
Gemma Saint (Liverpool (Merseyside), United Kingdom), Brian Flanagan, Paul Mcnamara

Rhinovirus- induced wheezing in children with family history of asthma
Snezhina Lazova (Sofia, Bulgaria), Sirma Mileva, Milena Yakova, Snejana Michailova

Bronchiolitis: 5 years of follow-up
Antonella Frassanito (Roma (RM), Italy), Raffaella Nenna, Laura Petrarca, Greta Di Mattia, Alessandra Pierangeli, Carolina Scagnolari, Flaminia Ravà, Sabrina Fioroni, Erika Marchionne, Benedetta Foti, Giulia Lais, Fabio Midulla

Respiratory Illness and Respiratory Syncytial Virus (RSV)-Related Hospitalization (RSVH In Infants with a Tracheostomy (Tr) in the CARESS Registry (2005-2016)
Ian Mitchell (Calgary (AB), Canada), Mahveesh Saleem, Kelly Kim, Paes Bosco, Krista Lancot

The effect of ambient air pollution on the risk of hospitalisation with bronchiolitis in infants: A systematic review.
Charlotte King (London, United Kingdom), Daniel Hawcutt, Jamie Kirkham, Ian Sinha

Pulmonary microbes identified by 16S sequencing of tracheal aspirate samples in two neonatal units in the UK
David Gallacher (Cardiff (South Glamorgan), United Kingdom), Dagmar Alber, Grace Logan, Nigel Klein, Richard Wach, Julian Marchesi, Sailesh Kotecha

Clinical outcome of antenatally detected congenital lung malformations: a non-operative approach.
Colin Robertson (Melbourne (VIC), Australia), Andrew Law, Michelle Fink, Joe Crameri

Influence of gender on lung function in prematurely born young people
Christopher Harris (London, United Kingdom), Alan Lunt, Janet Peacock, Anne Greenough

Anatomical and alveolar dead space in mechanically ventilated newborn infants
Theodore Dassios (Beckenham (Kent), United Kingdom), Paul Dixon, Ann Hickey, Sotirios Fouzas, Anne Greenough

Long term respiratory and developmental outcomes of children with absent pulmonary valve syndrome
Elizabeth Brettle (Birmingham, United Kingdom), Katalin Torok, Tarak Desai, Isobel Brookes, Priti Kenia, Satish Rao, Anna Scale, Prasad Nagakumar

Albuterol delivery by soft mist and pressurized metered dose inhalers during noninvasive ventilation in a model of a spontaneously breathing child
Ariel Berlinski (Little Rock, United States of America), Jeanne Velasco

Physical activity and body composition in Norwegian children born extremely preterm
Mette Engan (Bergen, Norway), Maria Vollseter, Thomas Halvorsen, Hege Clemm

Early life lung microbiome in preterm infants
David Gallacher (Cardiff (South Glamorgan), United Kingdom), Dagmar Alber, Grace Logan, Nigel Klein, Julian Marchesi, Sailesh Kotecha

Multiple breath washout is not useful in infants with bronchopulmonary dysplasia
Nilay Bas Ikizoglu (Istanbul, Turkey), Laura De Jong, Bulent Karadag, Irwin Reiss, Liesbeth Duijts, Andre Koon, Esther Van Mastrikt, Harm Tiddens, Refika Ersu, Marielle Pijnenburg
PA4659 Bronchodilator response in school-aged preterm-born children who had chronic lung disease in infancy
Kylie Hart (Cardiff, United Kingdom), Michael Cousins, Louise Yendle, Gillian Willetts, Iolo Doull, Mark Williams, Sarah Kotecha, John Henderson, Sailes Kotecha

PA4660 Fractional exhaled nitric oxide concentration in school-aged children born who had chronic lung disease in infancy
Kylie Hart (Cardiff, United Kingdom), Michael Cousins, Gillian Willetts, Louise Yendle, Iolo Doull, Mark Williams, Sarah Kotecha, John Henderson, Sailes Kotecha

PA4661 Long Term Home Oxygen Therapy for Chronic Neonatal Lung Disease: A four year Service Evaluation at Sheffield Children’s Hospital
Anne Bean (York (North Yorkshire), United Kingdom), Sonal Kansra, Julie Bell

PA4662 Acinetobacter baumannii infection and colonization among pediatric patients in pediatric ICU and other ICUs
BEOM JOON KIM (Suwon-si, Republic of Korea), Woo Ri Bae, Kyunghoon Kim, Hyejin Lee, Eun Ae Yang, Hwan Soo Kim, Yoon Hong Chun, Jong-Seo Yoon, Hyun Hee Kim, Jin Tack Kim

PA4663 Work of breathing at different levels of volume-targeted ventilation in infants with congenital diaphragmatic hernia
Katie Hunt (London, United Kingdom), Theodore Dassios, Kamal Ali, Anne Greenough

PA4664 Individualised dietary treatment of congenital chylothorax
Louisa Whitfield-Brown (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Samantha Moss

PA4665 Caucasian small for gestational age infants with bronchopulmonary dysplasia require longer, and more intensive treatment for their disease than appropriate for gestational age, and non-Caucasian counterparts.
Eleanor Grimley (Nottingham, United Kingdom), Andrew P Prayle, Matthew Hurley, Sarah Spencer, Dushyant Batra, Jayesh M. Bhatt

PA4666 Lung clearance index and exercise capacity among children and adolescents survivors of bronchopulmonary dysplasia
Elpida Hatziagorou (Thessaloniki, Greece), Eleana Kouroukli, Kosmas Sarafidis, John Tsanakas

TP-38 Session 459 12:50 - 14:40
Thematic poster: Insights in primary ciliary dyskinesia, asthma and lung function testing

- **Disease(s):** Respiratory infections, Airway diseases, Interstitial lung diseases, Sleep and breathing disorders, Respiratory infections
- **Method(s):** Cell and molecular biology, Physiology, General respiratory patient care, Epidemiology, Public health
- **Chairs:** Claudia E. Kuehni (Bern, Switzerland), Ela Erdem Eralp (Istanbul, Turkey), Jane Lucas (Southampton (Hampshire), United Kingdom), Bruna Rubbo (Southampton (Hampshire), United Kingdom)

PA4667 Motile cilia structure and function in patients with mutations in the outer dynein arm heavy chain DNAH9
Amelia Shoemark (Dundee (Angus), United Kingdom), Mahmoud R Fassad, Farheen Daudvolha, Tom Burgoyne, Robert A Hirst, Joe Hayes, Melissa Dixson, Andrew Rogers, Micheal Loebinger, Christopher O’Callaghan, Claire Hogg, Hannah Mitchison

PA4668 Does nasal rinsing reduce the need for repeat nasal brushing biopsies in a primary ciliary dyskinesia (PCD) diagnostic service? A pilot study.
Amanda Harris (Southampton (Hampshire), United Kingdom), Victoria Keenan, Amanda Friend, Hannah Wilkins, Bruna Rubbo, Claire Jackson, Janice Coles, James Thompson, Samantha Packham, Emma Macleod, Esther Nymbiti, Woolf Walker, Jane Lucas, Hazel Evans

PA4669 Comparison of diagnostic accuracy between the chemiluminescence and electrochemical methods for nasal nitric oxide measurements in PCD
Panayiotis Kouis (Nicosia, Cyprus), Grigoris Chatziparasidis, Barbara Boutopoulou, Heymut Omran, Maria Kakkoura, Stefania I. Papanolou, Kyriacos Kyriacou, Marios Papadopoulo, Vasilis Grammeniatis, Konstantinos Douros, Kostas Priftis, Panayiotis K. Yiiallouros

PA4670 Characterising nutrition status in a regional cohort of children with primary ciliary dyskinesia
Woelf Walker (Southampton (Hampshire), United Kingdom), Luise V Marino, Amanda Harris, Carolyn Johnstone, Amanda Friend, Victoria Keenan, Hannah Wilkins, Jane Lucas, Philip Calder

PA4671 Comparison of conventional chest physiotherapy and vibratory positive pressure treatment system method in diagnosis of primary ciliary dyskinesia
Emine Atag (Istanbul, Turkey), Ibrahim Bingol, Pinar Ergenekon, Nilay Bas Izkizoglu, Yasemin Gokdemir, Ela Erdem Eralp, Ayca Evkaya, Kardelen Gencer, Evrím Karadağ Saygı, Bulent Karadağ

PA4672 The effect of conventional chest physiotherapy and vibratory positive pressure therapy system on lung clearance index and spirometry in patients with primary ciliary dyskinesia
Emine Atag (Istanbul, Turkey), Pinar Ergenekon, Nilay Bas Izkizoglu, Ibrahim Bingol, Yasemin Gokdemir, Ela Erdem Eralp, Ayca Evkaya, Kardelen Gencer, Evrim Karadag Saygi, Builen Karadag

ERS 2018 International Congress
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Evaluation of quality of life in patients with primary ciliary dyskinesia
Pinar Ergenekon (Istanbul, Turkey), Ibrahim Bingol, Emine Atag, Nilay Bas Ikiçoglu, Yasemin Gökdemir, Ela Erdem Eralp, Bulent Karadag

Neuropsychological and Quality of life (QoL) assessment in children with severe asthma (SA) and moderate persistent asthma (MPA): a case-control study
Laura Montalbano (Palermo (PA), Italy), Giovanna Cilluffo, Silvia Montella, Stefania La Grutta, Simona Barni, Sara Bozzetto, Valeria Caldarelli, Antonio Di Marco, Emanuela Di Palmo, Grazia Fenu, Vera Galli, Michele Ghezzi, Lucia Leonardi, Amelia Licari, Violetta Mastrorilli, Mara Lelli, Maria Luisa Villani, Alessandro Volpini, Franca Rusconi

Predictors of pulmonary function test (Spirometry) values for Pakistani children, aged 5-14 years
Mustafa Ghulam (Multan, Pakistan), Muhammad Aslam

Lung function in children with congenital heart disease
Sophie Guerin (Lausanne, Switzerland), Nathalie Bertille, Dalia Khraiche, Damien Bonnet, Francois Goffinet, Nathalie Lelong, Babak Khoshnood, Christophe Delacourt

Infant lung function in relation to air pollution exposure in Stockholm, Sweden - results from the EMIL-cohort study
Björn Lundberg (Skärholmen, Sweden), Erik Melén, Olena Gruzieva, Göran Pershagen, Jenny Hallberg

Exercise induced dyspnea among adolescents – prevalence and incidence, a five-year follow-up
Henrik Johansson (Uppsala, Sweden), Margareta Emmner, Christer Janson, Andrei Malinovschi, Katarina Norlander, Leif Nordang

Challenges facing parents/caregivers of children with interstitial lung disease (chILD): international survey
Jeanette Boyd (Sheffield (South Yorkshire), United Kingdom), Steve Cunningham, Nicolaus Schwerk, Carlee Gilbert, Pippa Powell, Mareike Schamberger

Snoring in schoolchildren: prevalence and risk factors
Rebeca Mozún Torrico (Bern, Switzerland), Myrofora Goutaki, Cristina Ardura-Garcia, Florian Singer, Philipp Latzin, Alexander Moeller, Claudia E. Kuehni

Self-reported and medical chart histories of Australian Aboriginal and Torres Strait Islander (Indigenous) children and young adults
Tamara Blake (South Brisbane, Australia), Mark Chatfield, Anne Chang, Helen Petsky, Margaret Meelrea

Therapeutic educational pathway effect on asthma control: a pilot study
Laura Montalbano (Palermo (PA), Italy), Giovanna Cilluffo, Velia Malizia, Salvatore Fasola, Manuel Gentile, Marco Arrigo, Dario La Guardia, Mario Allegra, Nicola Murgia, Simona Pichini, Rosanna Mancini, Maria Concetta Rotolo, Stefania La Grutta

Combining supervised and unsupervised models to characterize asthma phenotypes in children
Bronwyn Brew (Stockholm, Sweden), Flaminia Chiesa, Cecilia Lundholm, Catarina Almqvist

Outcomes of empyema in the elderly: A study from Australia's Capital Territory
Budhima Nanayakkara (Cooma (NSW), Australia), Jian Tai, Joe Lemberger, Carol Huang

Are there geographical differences in the microbiology of pleural infection?
Maged Hassan (Alexandria, Egypt), Tamsin Cargill, John Corcoran, Elinor Harriss, Rachelle Asciak, Rachel Mercer, Rob Hallifax, Najib Rahman

Intrapleural tissue plasminogen activator (tPA) and deoxyribonuclease (DNAse) for pleural infection in an Asian population: Similar outcomes between 5mg and 10mg regimen
Kim Hoong Yap (Singapore, Singapore), Geak Poh Tan, John Abisheganaden
**Endoscopic one-way endobronchial valves in the treatment of persistent air leak with empyema: A Case Series**  
Giacomo Cusumano (Catania (CT), Italy), Alfonso Fiorelli, Salvatore Bellofiore, Carmelo Riscia Lizzio, Rosalia Giarlotta, Mario Santini, Alberto Terminella

**Allergic diseases of upper and lower airways caused by fungi: one or two diseases?**  
Aleksandra Barac (Belgrade, Republic of Serbia), Predrag Minic, Aleksandra Dudvarski Ilic, Goran Stevanovic, Vesna Tomic Spiric

**Predicting outcomes for invasive fungal tracheobronchitis**  
Chun Yu Lin (Taoyuan, Taiwan), Yueh Fu Fang

**Nosocomial outbreak of OXA-48-producing Klebsiella pneumoniae in a respiratory intensive care unit**  
Gordana Pavliša (Zagreb, Croatia), Ivana Marekovic, Hrvoje Puretic, Fedja Dzubur, Zrinka Bosnjak, Natasa Firis, Miroslav Samaržija

**Respiratory viral point of care testing (POCT) allows improved infection control and bed management during an influenza outbreak**  
Katherine Groom (Brentwood, United Kingdom), Kay Roy, Hala Kandil, Matthew Knight, Mohan Thapa

**Usefulness of ICU criteria for invasive pulmonary aspergillosis in critically ill patients**  
Song-I Lee (Seoul, Republic of Korea), Jin-Won Huh

**Respiratory viral infection in immunocompromised patients**  
Kathleen Jahn (Basel, Switzerland), Desiree Schumann, Michael Tamm, Hans Hirsch, Joerg Halter, Lilian Junker, Werner Strobel, Spasenija Savic, Dainina Stolz

**Carbapenem-resistant pathogens in US patients hospitalized with respiratory infections**  
Bin Cai (China), Bin Cai (FlorhFam Park, United States of America), Roger Echols, Deborah Rudin, Frank Corvino, Garrett Morgan, Mari Ariyasu, Takuko Sawada, Tsutae Nagata

**A case series of 17 patients with pulmonary tularemia in Norway 2016-2018**  
Astrid Kravdal (Gjøvik, Norway), Øystein Olav Stubhaug

**The effects of oral care with 0.2% chlorhexidine with toothbrushing to prevent ventilator associated pneumonia in adults’ intensive care units**  
Mohammad Khan (Kota Bharu (Kelantan), Malaysia), Zeehaida Mohamed, Saedah Ali, Norkhafizah Saddki, Ninin Sukmingrum

**Risk factors and clinical characteristics of Pneumocystis jirovecii pneumonia in lung cancer**  
Eun Hye Lee (Seoul, Republic of Korea), Ji Eun Park, Mi Hwa Shin, Eun Young Kim, Sang Hoon Lee, Ah Young Leem, Joo Han Song, Kyung Soo Chung, Young Ae Kang, Young Sam Kim, Joon Chang, Moo Suk Park

**Methicillin-resistant Staphylococcus aureus (MRSA) active screening in a Pulmonology department.**  
Daniel Oliveira Reis (Ovar, Portugal), Margarida Costa Silva, Carla Ribeiro, Eloisa Silva, Margarida Dias, Daniel Pires Coutinho, Teresa Shiang, Gabriela Abreu, Inês Sanches, Manuela Vanzeller

**Pneumocystis jirovecii pneumonia (PJP) in lymphoma patients, a tertiary cancer centre review.**  
Helen Adderley (Manchester (Greater Manchester), United Kingdom), Jihad Syed, Laura Covesmith, Kim Linton

**Prevalence and risk factors of frailty in patients with mycobacterium avium complex lung disease-preliminary study-Kohei Fujita (Kyoto, Japan), Yutaka Ito, Naohiro Uchida, Osumu Kanai, Misato Okamura, Koichi Nakata, Tadashi Mio

**Factors associated with colonization and infection by Carbapenem Resistant Enterobacteriaceae**  
Maria Adelaide Pereira da Silva Alves (Espinho, Portugal), Inês Sucena, Carla Ribeiro, Eloisa Silva, Teresa Shiang, Manuela Vanzeller

**Aspergillus Lung Infections: A Seasonal Risk**  
Tarang Kulkarni (Mumbai (Maharashtra), India), Beauty Biswas, Praveen Shahi, Raja Dhar

**MIC distributions of 35 antibiotics for 54 clinical isolates of Mycobacterium lentiflavum**  
Akiko Takaki (Tokyo, Japan), Akito Aono, Kinuyo Chikamatsu, Yuriko Igarashi, Kazuma Yagi, Takanori Asakura, Naoki Hasegawa, Suyuchi Matsuda, Kozo Morimoto, Yuka Sasaki, Masayuki Ikeda, Takayuki Tomii, Kiyoko Tamai, Yukiko Nakada, Yoshiro Murase, Hiroyuki Yamada, Satoshi Mitarai

**Thematic poster: Difficult-to-treat respiratory infections**

**Disease(s):**  
- Respiratory infections
- Respiratory critical care
- Respiratory infections

**Method(s):**  
- Public health
- Cell and molecular biology
- Endoscopy and interventional pulmonology
- Epidemiology
- Imaging
- General respiratory patient care
- Respiratory intensive care
**Chairs:** Carlos M. Luna (Ciudad Autónoma Buenos Aires, Argentina), Stephanie Everaerts (Leuven, Belgium), Oriol Sibila (Barcelona, Spain), Ane Uranga Echeverria (Bilbao (Bizkaia), Spain)

**PA4705** Major infections after cardiac surgery and antibiotic management practises in a tertiary care centre
Suprajit Kalyanaraman (Chennai (Tamil Nadu), India), Rohit Anusha, Durairajan Suresh, Soundar Sharmila, Kangusamy Bhoopathi

**PA4706** The aetiology of thoracic empyema in the Australian Capital Territory: An old enemy with a new army.
Budhima Nanayakkara (Cooma (NSW), Australia), Jian Tai, Joe Lemberger, Carol Huang

**PA4707** The impact of 2016 guideline on clinical practice for the management of hospital-acquired and ventilator-associated pneumonia in Taiwan
Chia-Lin Yang (Tokyo, Japan), Noriko Sakuma, Masakazu Kohno, Toshihiko Sakai, Hirokazu Tojima

**PA4708** Analysis of causes of death and mortality risk factors in elderly patients hospitalized due to pneumonia
Yuri Suzuki (Tokyo, Japan), Tetsuro Ohdaira, Takehiro Watanabe

**PA4709** Paragonimus westermani infection manifested as pulmonary cavity and adrenal gland mass: case report
Hyun Jung Kim (Daegu, Republic of Korea), Yong-Shik Kwon

**PA4710** Outcomes of Fibrinolytic therapy for acute empyema.
Takahisa Koizumi (Niigata, Japan), Hiroshi Moriyama, Tatsuhiko Sakai, Toshihiko Hirono, Takahiro Watanabe

**PA4711** Clinical analysis of pulmonary Mycobacterium kansasii disease
Yoshihiro Kobashi (Kurashiki (Okayama), Japan), Ryosuke Ikeda, Shigeki Kato, Mikio Oka

**PA4712** Safety and efficacy of reduced dose intrapleural alteplase and DNAase for pleural infection
Hugh Ip (London, United Kingdom), Alex West, Deirdre Wallace, Farinaz Noorzad, Liju Ahmed

**PA4713** Microbiology of pleural infection according to setting
Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Maged Hassan, Tamsin Cargill, John Corcoran, Elinor Harriss, Rachelle Asciak, Rachel Mercer, Rob Hallifax, Najib Rahman

**PA4714** Predictors for length of hospital stay in patients with community-acquired Pneumonia.
Houda Rouis (Tunis, Tunisia), Hamada Kaws, Ines Zendah, Ibtihel Khouliaj, Amel Khattab, Habib Ghédira

**PA4715** Predictive factors for methicillin-resistant Staphylococcus aureus (MRSA) infection in a MRSA screening protocol.
Daniel Oliveira Reis (Ovar, Portugal), Margarida Costa Silva, Carla Ribeiro, Eloísa Silva, Margarida Dias, Daniel Pires Coutinho, Teresa Shiang, Gabriela Abreu, Inês Sanches, Manuela Vanzeller

**PA4716** Predictive factors for methicillin-resistant Staphylococcus aureus (MRSA) infection in a MRSA screening protocol.
Daniel Oliveira Reis (Ovar, Portugal), Margarida Costa Silva, Carla Ribeiro, Eloísa Silva, Margarida Dias, Daniel Pires Coutinho, Teresa Shiang, Gabriela Abreu, Inês Sanches, Manuela Vanzeller

**PA4717** Epidemiology and outcome of ventilator associated pneumonia in an tertiary care ICU of India.
Shuvranu Ghosh (New Delhi (Delhi), India), Amit Dhamija, Debashish Dhar, Arup Basu, Neeraj Goel

**PA4718** MYCOBACTERIUM KANSASII LUNG INFECTIONS COMPARED TO OTHER NONTUBERCULOUS MYCOBACTERIA
Sandra Pedrero Tejada (Santurtzi (Vizcaya), Spain), Eva Tabenero Huguet, Borja Ortiz De Urbina Antia, Idoia Salinas Garrido, Beatriz Gonzalez Quero, Eunate Arana Arri, Elena Urra Zalbidegoitia, Rafael Zalacain Jorge

**PA4719** Additional diagnostic value of chest CT in patients with suspected pneumonia.
Takuto Sueyasu (Fukuoka, Japan), Kazunori Kusumoto, Masanobu Ohkawa, Kojin Murakami, Yuki Goto, Miyuki Munechika, Kohei Yoshimine, Naoki Nishizawa

**PA4720** Pulmonary actinomycosis in Brazil: a retrospective case series
Philippe de Figueiredo Braga Colares (São Paulo (SP), Brazil), Tomás Béder, Roberta Karla Sales, Ellen Pierre Oliveira, Felipe Maques Costa, André Nathan Costa

**PA4721** Low respiratory tract infection (LRTI) in ALS patients. A regional referring centre experience
Paola Pierucci (Sydney (NSW), Australia), Enrico Buonamico, Pierluigi Intiglietta, Giuseppe Cassano, Pierluigi Carratù, Silvano Dragomier, Onofrio Resta

**PA4722** Whole-blood test for the diagnosis of lung Cystic Echinococcosis
Linda Petrone (Roma (RM), Italy), Valentina Vannini, Vincenzo Schinità, Elisa Busi Rizzi, Edoardo Pozio, Giuseppe Cardillo, Marco Di Martino, Antonella Teggi, Delia Goletti

**PA4723** Clinical profile and outcome of patients with sputum positive Acinetobacter baumannii infection
Parakkal Sukumaran (Kottayam (Kerala), India), Beena Thomas, Sethu Babu, Seema Oommen
Thematic poster: The immune response to tuberculosis: development of biomarkers and diagnostic tools

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections

**Method(s):** General respiratory patient care, Cell and molecular biology

**Chairs:** Valeriu Crudu (Chisinau, Republic of Moldova), Lorenzo Guglielmetti (Paris, France), Jan Heyckendorf (Hamburg, Germany), Dennis Falzon (Genève, Switzerland)

**PA4724**
Evaluation of new biomarkers for laboratory diagnosis of tuberculosis
Ehsan Aryan ( Mashhad, Islamic Republic of Iran), Mahsa Sayadi, Zahra Meshkat, Alireza Neshani, Hadi Safdari

**PA4725**
MicroRNAs in serum of post primary TB patients.
Vladimir Yeremeev (Moscow, Russian Federation), Vladimir Evstifeev, Galina Shepelkova, Anush Ergeshova, Mamed Bagirov

**PA4726**
Transcriptional Signature Identifies Phenotypic Heterogeneity of Human Tuberculosis Infection
Raman Verma (Leicester (Leicestershire), United Kingdom), Akul Singhania, Christine Graham, Joanne Lee, Gerrit Woltmann, Anne O’Garra, Pranabashis Haldar

**PA4727**
Production, purification and validation of anti-tuberculosis IgY for diagnostic purposes
Ehsan Aryan (Mashhad, Islamic Republic of Iran), Mahdi Kouhi-Noghondar, Mojtaba Sankian, Amir-Ali Arian, Zahra Meshkat

**PA4728**
High-resolution quantitative proteomics applied to the discovery of biomarkers of innate immune response in tuberculosis.
Jesús Mateos Martin (Vigo, Spain), Africa Gonzalez-Fernandez, Luis Anibarro, Angeles Pallares, Rajko Reljic, Jose Maria Gallardo, Isabel Medina, Monica Carrera

**PA4729**
Mycobacterium tuberculosis blocks phagolysosome maturation in alveolar macrophages of tuberculosis patients
Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva2, Diana Vakhrusheva2, Sergey Skornyakov2

**PA4730**
Mycobacterium tuberculosis reside only inside phagosomes in alveolar macrophages of tuberculosis patients
Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva2, Diana Vakhrusheva2, Sergey Skornyakov2

**PA4731**
Cytokines/chemokines gene expression in the lungs of fibrous-cavernous TB patients.
Vladimir Yeremeev (Moscow, Russian Federation), Galina Shepelkova, Vladimir Evstifeev, Anush Ergeshova, Mamed Bagirov

**PA4732**
Features of development of TB infection caused by different doses of MBT
Natalya Eremeeva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Tyulkova, Leonid Lavrechuk, Ksenia Belousova, Tatyana Umpeleva, Diana Vakhrusheva

**PA4733**
The study of differential gene expression of matrix metalloproteinases in macrophages infected with Mycobacterium tuberculosis
Shashikant Vaidya (Mumbai (Maharashtra), India), Jinesh Maniar

**PA4734**
Assessment of differential activity of reactive radicals in cell lines infected with Mycobacterium tuberculosis.
Shashikant Vaidya (Mumbai, Maharashtra, India), Sukanya Sawant, Jinesh Maniar

**PA4735**
Effect of polymorphism of Toll-like receptor genes on the duration of pulmonary tuberculosis
Eugeniy Bayke (Chita, Russian Federation), Ekaterina Bogodukhova

**PA4736**
Immunological differences between lung tuberculosis and latent tuberculosis infection
Anna Starshinova (St. Petersburg, Russian Federation), Evgenia Istominia, Ulia Zinchenko, Nina Denisova, Michail Nazarenko, Michail Filatov, Vladimir Burdakov, Sergey Landa, Piotr Yablonskiy

**PA4737**
Characteristics of IL-12p70 and IL-12p40 serum level among active, latent, and contact with tuberculosis patients
Eliana Muis (Makassar, Indonesia), Nur Ahmad Tabri, Irawaty Djaharuddin, Ayu Purnamasari

**PA4738**
Capacities of blood serum lipoarabinomannan in the diagnosis of tuberculosis at a late stage of HIV infection
Artem Dudchenko (Zelenograd, Russian Federation), Mikhail Averbakh, Natalia Karpina, Atajan Ergeshov

**PA4739**
Determination of CD4, CD8 and IL-8 levels in serum and BAL fluid of patients with pulmonary anthracosis
Arda Kiani (Tehran, Islamic Republic of Iran), Atefeh Abedini, Mehdil Ramazanpour, Esmaeil Mortaz, Hamidreza Jamaati, Kimia Taghavi, Fatemeh Razavi

Thematic poster: Drug-resistant tuberculosis and the sequelae of pulmonary tuberculosis
Disease(s) : Respiratory infections, Respiratory critical care, Pulmonary vascular diseases, Airway diseases, Respiratory infections

Method(s) : Cell and molecular biology, Respiratory intensive care, Epidemiology, Public health, General respiratory patient care

Chairs : Alberto Garcia-Basteiro (Maputo, Mozambique), André Santos-Silva (Porto, Portugal), Margareth Maria Pretti Dalcolmo (Rio De Janeiro (RJ), Brazil), Alena Skrahina (Minsk region, Belarus)

**Experience in the use of Bedakville in the therapy of multidrug-resistant tuberculosis and HIV infection.**
Elena Ershova (St.-Petersburg, Russian Federation), Irina Chernokhaeva, Maria Pavlova, Anna Starshinova, Nadezhda Sapozhnikova

**Bedaquiline in the treatment of patients with co-infection HIV/tuberculosis**
Armire Galstyan (Moscow, Russian Federation), Sergey Evgenievich Borisov, Michail Sinitsin

**Bedaquiline in treatment of TB/HIV co-infection patients with extremely-drug resistance of MBT**
Goar Balasaniante (Leningrad Oblast, Russian Federation)

**To evaluate the outcome of tuberculosis at a tertiary care hospital in Karachi-Pakistan**
Mariyam Gohar Ali (Karachi, Pakistan), Syed Muhammad Zubair, Talha Shahzad, Afshan Yaseen, Muhammad Irfan

**Spreading of resistance to group A anti-tuberculosis drugs among TB patients in Astana city**
Goar Balasaniante (Leningrad Oblast, Russian Federation), Zhanna Rakisheva, Anna Zepke, Akmaral Akisheva, Nataliya Solovjeva

**Evaluation of 123 Cases with MDR TB (Multidrug Resistant Tuberculosis) Treatment**
Aylin Babalik (Istanbul, Turkey), Ayse Rumeysa Hazine, Gul Erdal Donmez, Olga Akkan, Fatma Kutluhan, Ahmet BahKci, Gulay Catmabacak, Kaya Koksalan, TüLin Kuyuçu

**Nature, Magnitude and Risk Factors of Adverse Drug Reactions in Multidrug Resistant TB Patients in Eritrea**
Mulugeta Russom (Asmara, Eritrea), Katia Verhamme, Leila Karimi, Hagos Ahmed

**Accompanying therapy of patients with extensive drug-resistant (xdr) lung tuberculosis**
Nikolay Nikolenko (Moscow, Russian Federation), Ludmila Shovkun, Dmitry Kudlay, Irina Franchuk

**MDR-TB treatment efficacy by results of Xpert MTB/RIF assay in the Stavropol region of the Russian Federation**
Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Yelena Chunakova, Vasily Odinets

**Community based therapy for children with Multidrug-Resistant Tuberculosis in Khvaktunkhwa Peshawar, Pakistan**
Arshad Javaid (Peshawar, Pakistan), Mazhar Ali Khan, Mir Azam Khan

**Use of shortened chemotherapy regimens in treatment of adolescents with MDR/XDR TB**
Evgenia Viechelli (Moscow, Russian Federation)

**Adverse effects of chemotherapy in patients with multidrug-resistant tuberculosis with alcohol abuse and without one**
Alena Aleksa (Grodno, Belarus), Ilja Gelberg, Siargej Wolf, Janina Artsukevich, Andrej Tsiunchyk, Anatoly Masilevich, Yurij Shejfer

**Use of line probe assays for the diagnosis of drug-resistant tuberculosis in Hospital for respiratory diseases “St. Sofia”, Sofia, Bulgaria**
Vladimir Milanov (Sofia, Bulgaria), Svetlana Velizarova, Albena Spasova, Natalia Gabrovskva, Tsvetanka Dimitrova-Milanova, Gergana Mihaylova, Maria Nachkova, Dimitar Kostadinov

**Variability of primary resistant M.tuberculosis strains in TB service institutions**
Anton Rogozhin (Kharkov, Ukraine), Petr Poteiko, Olha Konstantynoska, Oleksandr Liashenko, Oleksii Solodiankin

**Construing the role of Proteasome Accessory Factor-C in fluoroquinolone resistance in pulmonary tuberculosis**
APOORVA NARAIN (Lucknow (Uttar Pradesh), India), Ekta Dhamija, Kanchan Srivastava, Kishore K Srivastava, Surya Kant

**A case series of pyrazinamide mono-resistant mycobacterium tuberculosis using whole genome sequencing for diagnosis and cluster linkage.**
Darryl Braganza Menezes (Birmingham (West Midlands), United Kingdom), Sebastian Lugg, Gemma Hawthorne, Esther Robinson, Martin Dedicoat

**Ability of genotypical method to make assessment of tuberculosis infection hotbed**
Iryna Ovcharenko (Kharkiv, Ukraine), Olga Hovardovska, Olga Schevchenko
Disease(s) : Respiratory infections, Airway diseases, Respiratory infections

Method(s) : Cell and molecular biology, Epidemiology, Endoscopy and interventional pulmonology, Imaging, General respiratory patient care, Public health

Chairs : Berit Lange (Freiburg, Germany), Dragica Pešut (Beograd, Republic of Serbia), Simon Tiberi (London, United Kingdom), Cécile Magis-Escoura (Nijmegen, Netherlands)

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**PA4757**  
Late Breaking Abstract - An Electronic Nose as a screening tool for childhood Tuberculosis  
Luisa Quesada (Brookline, United States of America), Sergio Poli De Frias, Gessica Di Toro, Eimes Salas, Ana Gutierrez, Jessica Bello, Isabel Tovar, Maria España, Heriberto Perez, Julian Villa, Marlene Villalon, Jacobus De Waard

**PA4758**  
Rapid diagnosis of tuberculosis and rifampin resistance by GeneXpert MTB/RIF test  
Şeref Özkara (Ankara, Turkey), Ismail Ceyhan, Mujgan Guler, Gongor Dulkar

**PA4759**  
The utility of delta neutrophil index in differentiation of pulmonary tuberculosis from community acquired pneumonia  
Jun Hyek Lim (Seoul, Republic of Korea), Byung Woo Jhun, Hyun Il Gil, Yun Su Sim, Tae Rim Shin, Dong-Gyu Kim

**PA4760**  
Compliance with recommendation for respiratory sampling in diagnosis of Tuberculosis(NICE guideline NG33)  
HNIN WINT WINT AUNG (Woking (Surrey), United Kingdom), Salim P L Meghjee, Debbie Wearmouth

**PA4761**  
Comparison of the diagnostic value of immunological test, applied to two types of biological fluids - venous blood and bronchoalveolar lavage in children with tuberculosis  
Svetlana Velizarova (Sofia, Bulgaria), Nataliya Gabrovska, Dimitar Kostadinov, Dinko Valev, Nevena Gesheva, Yana Krasteva

**PA4762**  
Activity of lysozyme and adenosine deaminase in patients with pulmonary tuberculosis  
Mirjana Trailjuevska (Skopje, FYROM (Macedonia)), Aleksandar Sandevski

**PA4763**  
High serum peristin levels and the association with pulmonary tuberculosis  
Momoko Yamauchi (Okinawa-ken, Japan), Takeshi Kinjo, Gretchen Parrott, Jiro Fujita

**PA4764**  
First experience of single TB centre in diagnosis of peripheral pulmonary lesions using radial-EBUS.  
Irina Shumskaya (Moscow, Russian Federation), Ilya Sivokozov, Elena Larionova, Galina Evguschenko, Natalya Karpina, Olga Lovacheva

**PA4765**  
Patients with recurrent tuberculosis in Istanbul: reactivation?, reinfection?  
Gonca Öcal (Istanbul, Turkey), Pınar Etiz, Zuleya Bingöl, Orhan Kay Koksal, Zeki Kilicaslan

**PA4766**  
Radiological differential diagnosis of lung cavities  
Rasul Amansahedov (Moscow, Russian Federation), Natalia Karpina, Irina Limarova, Roksana Kazho, Anatoliy Sigaev, Atadjan Ergeshov

**PA4767**  
Diagnostic role of bronchoscopy in induced sputum negative pulmonary tuberculosis in tertiary care centre, South India  
Don Gregory Mascarenhas (Puttur (Karnataka), India), Neema Motadka

**PA4768**  
Trend of delay treatment of patient and healthcare system in diagnosis and management of pulmonary tuberculosis in Iran  
Abolfazl Mozaffari (Tehran, Islamic Republic of Iran), Reza Kianifar

**PA4769**  
Role of Bronchial Washing Gene Xpert in smear negative cases of suspected pulmonary tuberculosis  
Faisal Faiyaz Zuberi (Karachi Sindh, Pakistan), Sagheer Hussain, Sidra Hameed, Bader Faiyaz Zuberi

**PA4770**  
The role of computed tomography in differential diagnosis of pulmonary TB in patients with chronic renal failure in the terminal stage.  
Olga Gordeeva (Moscow, Russian Federation), Rasul Amansahedov, Irina Limarova, Natalia Karpina, Atadjan Ergeshov

**PA4771**  
Hepatic tuberculosis – a case series  
Edward Williams (HINCKLEY (Leicestershire), United Kingdom), J L Potter, F Duff, M Burman, S Tiberi, V White, H Kunst

**PA4772**  
Study of diagnostic sensitivity for mycobacterium tuberculosis(MTB) by smear, culture and Xpert MTB/RIF assay in pleural specimens obtained by medical thoracoscopy.  
Mahaveera Bnbm Prasad (Bengalure (Karnataka State), India)

**PA4773**  
Semi-quantitation of tuberculosis bacilli (MTB) and nontuberculous mycobacteria (NTM) in sputum by a new nucleic acid amplification test (NAAT)  
Emmanuelle Cambau (Paris, France), Sylvain Kumanski, Emmanuel Lecorche, Faiza Mougari
PA4774
Knowledge of Cough Hygiene And Disposal of Sputum in Patients with Pulmonary Tuberculosis
Deepu Changappa Cheriamane (Madikeri (Karnataka), India)

PA4775
Negative effect of ferritin levels on T-SPOT.TB, an enzyme-linked immunospot based interferon-gamma release assay using Mycobacterium tuberculosis specific antigens, in the smear-positive active pulmonary tuberculosis.
Masaki Yamamoto (Yokohama, Japan), Ken Tashiro, Misako Ikeda, Hideyuki Nagakura, Kentaro Nakashima, Ryota Ushio, Kenjiro Nagai, Yu Haru, Nobuaki Kobayashi, Takashi Sato, Masaharu Shinkai, Makoto Kudo, Takeshi Kaneko

TP-44
Thematic poster: Management of idiopathic interstitial pneumonias: established and new treatments

Disease(s): Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology, Physiology, Epidemiology, Respiratory intensive care, General respiratory, Public health

Chairs: Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Claudia Valenzuela (Alcobendas (Madrid), Spain), Antonio Morais (Maia, Portugal), Shinichiro Ohshimo (Hiroshima, Japan)

PA4776
A self-reported qualitative assessment of yoga exercises delivered to patients with IPF and their caregivers.
Nicola Cassidy (Dublin 5, Ireland), Michael Darragh Macauley, Jim Egan

PA4777
Patterns of discontinuation in patients with IPF treated with open-label nintedanib: data from INPULSIS-ON
Ulrich Costabel (Essen, Germany), Michael Kreuter, Jin Woo Song, John T Huggins, Benoit Wallaert, Wibke Stansen, Manuel Quaresma, Bruno Crestani

PA4778
Factors influencing Idiopathic Pulmonary Fibrosis (IPF) anti-fibrotic decisions in a single UK centre: patient and physician perspectives
Alexis Papadopoulos (Manchester, United Kingdom), Savvas Zannetos, Rachel Hoyles

PA4779
Investigation burden in patients with fibrotic interstitial lung disease in their terminal admission
Hui Guo (Melbourne (VIC), Australia), Jennifer Mann, Natasha Smallwood, Nicole Goh

PA4780
Three-centre study (DZL) to investigate the effects of three-month whole-body vibration training on muscle strength, lung function, health-related quality of life and inflammation markers in patients with pulmonary fibrosis.
Tobias Boeselt (Marburg, Germany), Andreas Rembert Koczulla, Janina Koelpin, Christoph Nell, Fabian Kauflord, Claus Vogelmeier, Felix Herr, Peter Alter, Martina Veith, Timm Greulich, Christian Kaeuler, Michael Kreuter

PA4781
Lessons learned when recruiting for an early Idiopathic Pulmonary Fibrosis (IPF) palliative care intervention
Kathleen Lindell (Pittsburgh, United States of America), Mehdi Nouraie, Sara Klein, Melinda Klesen, Kevin Gibson, Daniel Kass, Margaret Rosenzweig

PA4782
Introducing a new formulation of pirfenidone to reduce tablet burden for the IPF patient: Is it tolerable? Is it easy to take? What do our patients think?
Helen Morris (Manchester (Greater Manchester), United Kingdom), Tracey Marshall, Katie Zakis, Theresa Garfoot, Conal Hayton, Pilar Rivera Ortega, Colm Leonard, John Blakley, Nazia Chaudhuri

PA4783
Team support with pharmacists improved tolerability of antifibrotic agents for pulmonary fibrosis.
Mariko Kogo (Hyogo prefecture, Japan), Yukari Satsuma, Kaori Kusuda, Hiroaki Ikuesue, Ryobu Mori, Daichi Fujimoto, Kazuma Nagata, Atsushi Nakagawa, Ryo Tachikawa, Kojiro Otsuka, Keisuke Tomii

PA4784
Patients’ expectations and quality of life before introduction of pirfenidone used in idiopathic pulmonary fibrosis.
Aleksandra Belz (Katowice, Poland), Paulina Debowska, Joanna Warzzech, Aleksandra Gasiorek, Dominika Galczynska, Sylwia Czyz, Bettina Ziaja, Dariusz Jastrzebski, Dariusz Ziara

PA4785
Combination treatment with nintedanib and prednisolone for patients with idiopathic pulmonary fibrosis
Motoyasu Kato (Tokyo, Japan), Takahiro Nakamura, Kana Kono, Mizuki Haraguchi, Tomoko Yamada, Hiroaki Ihara, Fumiuki Takahashi, Kauhiza Takahashi

PA4786
Benefits of a pilot program of supervised exercise training in Idiopathic Pulmonary Fibrosis
Jaume Bordas Martine (barcelona, Spain), Jose Manuel Palma Lopez, Mariagna Sampere Aymerich, Anna Bachs Salvado, Lurdes Planas Cerezales, Ivette Callorda Boniatti, Ferran Lopez Beltran, Rosa Planas Balague, Jordi Dorca Sargatal, Maria Molina Molina, Vanesa Vicens Zygmunt

PA4787
Long-term (4 years) experience of Nintedanib in IPF patients in Crete: A real life data study
Athina Trachalaki (Irklio, Greece), Katerina Antoniou, Eirini Vasvaridou, George Margaritopoulos, George Papastratigakis, Eleni Bibaki, Evangelia Stamataki, George Meletis, Nikolaos Tzanakis

PA4788
Palliative and symptomatic care of patients with fibrotic interstitial lung disease
Jennifer Mann (Melbourne (VIC), Australia), Hui Guo, Nicole Goh, Natasha Smallwood
Multidisciplinary management of interstitial lung diseases in a tertiary centre: A prospective study.
Caroline Biglia (Wavre, Belgium), Benoît Ghaye, Gregory Reyehler, Valérie Lacroix, Farah Tamirou, Delphine Hoton, Thierry Pieters, Antoine Froidure

Idiopathic Pulmonary Fibrosis (IPF): Should it be all about the FVC?
Sarah Boot (Leeds (West Yorkshire), United Kingdom), Laura Horgan, Louise Flint, Tim Sutherland, Paul Beirne

A comparison of pirfenidone versus nintedanib for the management of idiopathic pulmonary fibrosis
Marium Naqvi (London, United Kingdom), Grainne D’Ancona, Alex West

Real-life efficacy of Pirfenidone in a cohort of patients with IPF in Northern Greece
Serafn Chrysosvalantis Koutoulas (Θεσσαλονίκη, Greece), Evangelia Fouka, Ioannis Organtzis, Georgia Pitsiou, Antonios Papaiamnoou, Christoforos Euthymiou, Ioannis Stanopoulos, Violetta Mrouzidou, Theodoros Kontakiotis, Despoina Papakosta

Associations between comorbidities, their treatment and survival in patients with interstitial lung diseases – a claims data analysis
Larissa Schwarzkopf (Neuherberg, Germany), Sabine Witt, Julia Waelscher, Markus Polke, Michael Kreuter

Experience of patients treated with nintedanib in the Community of Madrid. REFIPIMAD Registry
Mª Asuncion Nieto Barbero (Madrid, Spain), Luis Gómez Carrera, Mª Jesús Rodriguez Nieto, Alvaro Casanova Espinosa, Rosalía Laporta Hernández, Belén López-Muñiz Ballesteros, Claudia Valenzuela, Teresa Bilbao-Goyoaga Arenas, Gemma Mª Mora Ortega, Mª Teresa Río Ramirez

Efficacy of combined therapy with pirfenidone and inhaled N-acetylcysteine for idiopathic pulmonary fibrosis: a randomized controlled phase 3 trial

Nigella sativa fixed oil, attenuates bleomycin-induced pulmonary fibrosis in a rat model
Anouar Abidi (Tunis, Tunisia), Sana Bahri, Saloua Ben Khamsa, Alexandre Legrand

The activity of nintedanib in a mouse model of severe allergic lung remodeling
Lutz Wollin (Biberach an der Riß, Germany), Christopher Tomsic, Klaus Erb

Role of MUC4 in idiopathic pulmonary fibrosis
Beatriz Ballester (Burjassot (Valencia), Spain), Javier Milara, Ricardo Guijarro, Esteban Morcillo, Julio Cortijo

Implication of FGFR4 and its ligands in Idiopathic Pulmonary Fibrosis
Aurélien Justet (Paris, France), Simon Demagny, Tiara Boghanim, Madeleine Jaillelet, Emmeline Marchal-Duval, Aurélie Cazes, Pierre Mordant, Yves Castier, Arnaud Mailleux, Bruno Crestani

M-BAR promotes pulmonary fibroblast proliferation through TGF-B/AKT/ERK1/2 signaling pathway
Xueqing Liu (Shanghai, China), Handong Jiang

Probe-based confocal laser-endomicroscopy imaging of differential auto-fluorescence of alveolar macrophages in diffuse lung diseases
Kazuyoshi Imaizumi (Toyoake, Japan), Takuya Okamura, Tomoyuki Minezawa, Yusuke Gotoh, Tomoya Horiguchi, Yuki Mieno, Sakurako Uozu, Masashi Kondo

Assessment of collagen in human idiopathic pulmonary fibrosis using second harmonics on Genesis 200
Simon Royce (Clayton, Australia), Cem Erdent, Andre Tan, Jade Jaffar, Glen Westall, Jane Bourke, Chrsitan Samuel, Robert Widdop

Investigating effects of nintedanib on biomarkers of ECM turnover in patients with IPF: the INMARK study
Toby Maher (St. Albans (Hertfordshire), United Kingdom), Susanne Stowasser, Yasuhiro Nishioka, Eric S White, Vincent Cottin, Imre Noth, Moises Selman, Daniel Wachtlin, Claudia Diefenbach, R Gisli Jenkins
13:00 Bronchiectasis: new therapies and perspectives
James D. Chalmers (Dundee (Angus), United Kingdom)

13:23 Diagnosis and management of non-cystic fibrosis bronchiectasis in children
Anne Bernadette Chang (Brisbane (QLD), Australia)
**Lungs on fire: Sleep and Breathing Disorders**

**Aims:**
- Study real challenging clinical cases
- Learn and exchange ideas with a panel of respiratory experts
- Discuss the various diagnosis and treatment options

**Disease(s):** Sleep and breathing disorders

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiologist

**Chairs:**
- Anita Simonds (London, United Kingdom)
- Paolo Palange (Rome, Italy)
- Walter McNicholas (Dublin, Ireland)
- Winfried J. Randerath (Solingen, Germany)

**Session facilitator introduction**

Dan Adler (Genève, Switzerland)

**Case 1**
- **Author:** S. Saraç (Istanbul, Turkey)

**Case 2**
- **Author:** J. Joblon (Franconville, France)

**Case 3**
- **Author:** A.C. Rodrigues Vieira (Almada, Portugal)

**Case 4**
- **Author:** A. Longoni (Mariano Comense, Italy)

**Case 5**
- **Author:** J. Van Woensel (Antwerp, Belgium)

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**Lunchtime session: Myths and Truths of Inhaler Technology**

**Aims:** After this session, the audience will have gained a better understanding of the current and upcoming inhaler technologies.

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care

**Tag(s):** Clinical

**Target audience:** Allergist, General practitioner, Lung function technologist, Nurse, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:**
- Federico Lavorini (Firenze (FI), Italy)
- Frans H.C. De Jongh (Enschede, Netherlands)

**13:00 Making sense of inhalers - The device matters more than the drugs!**
- **Author:** Omar S. Usmani (London, United Kingdom)

**13:30 Using Inhalers and getting it right**
- **Author:** Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)

**14:00 Adherence: Yesterday, Today and Tomorrow**
- **Author:** David Price (Singapore, Singapore)
## Disease(s) : Respiratory infections

### Tag(s) : Clinical

**Target audience** : Adult pulmonologist/Clinician, Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiologist, Physiotherapist, Radiologist, Thoracic oncologist, Trainee

**Chairs** : Michael Loebinger (London, United Kingdom), Enrico M. Clini (Modena (MO), Italy), Renaud Louis (Liège, Belgium), David W. Denning (Manchester (Greater Manchester), United Kingdom), Martin H. Brutsche (St. Gallen, Switzerland)

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<th>Session facilitator introduction</th>
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<td><strong>Case 1</strong> - Author: C. Garcia Polo (Cádiz, Spain)</td>
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<td><strong>Case 2</strong> - Author: F. Funke (Essen, Germany)</td>
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<td><strong>Case 3</strong> - Author: J.A. Ordoñez Cardales (Bogotá, Colombia)</td>
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<td><strong>Case 4</strong> - Author: M. Asadi Gharabaghi (Tehran, Iran)</td>
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<td><strong>Case 5</strong> - Author: C. Crimi (Catania, Italy)</td>
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### Session 472 13:00 - 14:15

**Lungs on fire: Pulmonary Vascular Diseases & Respiratory Infections**

**Aims** :
- Study real challenging clinical cases
- Learn and exchange ideas with a panel of respiratory experts
- Discuss the various diagnosis and treatment options

**Disease(s) :** Pulmonary vascular diseases, Respiratory infections

**Tag(s) :** Clinical

**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Critical/Intensive care physician, General practitioner, Nurse, Paediatrician, Radiologist, Trainee, Thoracic oncologist

**Chairs** : Anh Tuan Dinh-Xuan (Paris, France), Francesco Blasi (Milan, Italy), George Dimopoulos (Athens, Greece), Anton Vonk Noordegraaf (Amsterdam, Netherlands), Antoni Torres (Barcelona, Spain)

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<th>Session facilitator introduction</th>
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<td><strong>Case 1</strong> - Author: M. Silveira Lapa (Sao Paulo, Brazil)</td>
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<td><strong>Case 2</strong> - Author: A. Qayum (London, United Kingdom)</td>
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<td><strong>Case 3</strong> - Author: E.T. Almas (Limerick City, Ireland)</td>
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<td><strong>Case 4</strong> - Author: M. Dianti (Buenos Aires, Argentina)</td>
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<td><strong>Case 5</strong> - Author: R. Coelho Soares Rosa (Lisbon, Portugal)</td>
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<td><strong>Case 6</strong> - Author: T.J. Martins Oliveira (Ribeirao, Portugal)</td>
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### 13:15-14:30

**INDUSTRY PRACTICAL WORKSHOP**

SEE PAGE 1

### Session 489 14:45 - 16:45

**Grand round: Clinical Grand Round**

**Diffuse parenchymal lung diseases**

**Aims** : To identify common and rarer diffuse parenchymal lung disorders (DPLD); and to learn about how the clinical profiles, laboratory features, physio-pathological impairments, imaging aspects and pathology in DPLD correlate with each other.
Symposium: State of the art session: Interstitial lung diseases

Aims: To provide an update on the most recent advances in the diagnosis, management and treatment of interstitial lung diseases (ILD). This session will mainly address clinical issues. Adequate time for discussion of each topic will be provided at the end of each presentation.

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Clinical researcher, Adult pulmonologist/Clinician
Chairs: Ulrich Costabel (Essen, Germany), Vincent Cottin (Lyon, France)

14:45 Idiopathic pulmonary fibrosis
Athol Wells (London, United Kingdom)

15:15 Connective tissue disease-associated ILD
Bruno Crestani (Paris, France)

15:45 Sarcoidosis
Dominique Valeyre (Paris, France)

16:15 Hypersensitivity pneumonitis
Dirk Steffen Koschel (Coswig, Germany)
### Session 492 14:45 - 16:45

**Hot topics: Pathophysiology of the human lung alveolus**

**Development, diseases and in vitro modelling**

**Aims:**
- The alveolus is the respiratory tissue that is located in the distal part of the airways. Numerous acute and chronic diseases associate with marked changes in the alveoli. Until recently, it was not possible to generate in vitro models of alveoli from primary or pluripotent stem cells. This significantly delayed our understanding of the biology of the lung alveolar epithelium. However, recent developments in tissue modelling have greatly advanced research on the development of the alveolar epithelium and its biology in health and disease, including pathologies of the distal airways such as acute lung injury, infections, emphysema, bronchopulmonary dysplasia, surfactant dysfunction and fibrosis. This session will provide attendees with an opportunity to learn about and discuss the latest information regarding the development of the human lung alveolus and the role of mesenchymal-epithelial cell interactions in this process, the in vitro modelling of the human lung alveolar epithelium using induced pluripotent stem cells and the regeneration of the lung alveolus.

**Disease(s):** Interstitial lung diseases, Thoracic oncology

**Method(s):** Cell and molecular biology

**Tag(s):** Basic science

**Target audience:** Clinical researcher, Critical/Intensive care physician, Pathologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/ Clinician

**Chairs:** Remi Villenave (Boston, United States of America), Pieter S. Hiemstra (Leiden, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>14:45</td>
<td>The development of the human lung alveolus</td>
<td>Marko Nikolic (Cambridge)</td>
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<tr>
<td>15:15</td>
<td>Disrupted alveolar repair in COPD: lessons from patient studies and models systems</td>
<td>Melanie Königshoff (Denver)</td>
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<td>15:45</td>
<td>Using induced pluripotent stem cells to model the human lung alveolar epithelium</td>
<td>Anjali Jacob (United States of America)</td>
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<tr>
<td>16:15</td>
<td>The regeneration of the lung alveolus</td>
<td>William Zacharias (United States of America)</td>
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### Session 493 14:45 - 16:45

**Hot topics: Emerging tobacco products and harm reduction: a tobacco solution to a tobacco problem?**

**Aims:**
1. To show how nicotine addiction maintains tobacco consumption and to explain the principles of harm reduction and their public health applications; 
2. To discuss causality in public health science and to review the evidence on the potential effects of heated tobacco products on human health; 
3. To raise awareness about the tactics of the tobacco industry, in particular how they have produced innovative tobacco products that are claimed to be less harmful, thereby deceiving the consumers about the health risks and addictiveness of tobacco products; 
4. To provide patient perspectives on emerging tobacco and nicotine products; 
5. To highlight the leadership role and engagement of the ERS in controlling tobacco use and to present the ERS statement on harm reduction and emerging tobacco products.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Epidemiology, Public health

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiotherapist, Policy maker, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Sofia Belo Ravara (Covilhã, Portugal), Stephen Lequet (Paris, France), Isabel Saraiva (Cascais, Portugal)

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<th>Time</th>
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<tr>
<td>14:45</td>
<td>Understanding nicotine addiction and the principles of harm reduction</td>
<td>Dimos Fotopoulos (Athens)</td>
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<tr>
<td>15:12</td>
<td>Health effects of heated tobacco products: what we do and do not know</td>
<td>Linnea Hedman (Luleå, Sweden)</td>
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<td>15:39</td>
<td>How tobacco industry tactics have changed over time: effective regulation is needed</td>
<td>Elif Dagli (Istanbul, Turkey)</td>
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### Session 494 14:45 - 16:45

#### Symposium: Lung cancer screening and management of solitary pulmonary nodules

**Aims:**
To provide a detailed update on the ongoing pivotal scientific debate about lung cancer screening with low dose computed tomography in high risk groups and consequently the management of solitary pulmonary nodules. Experts from the relevant international societies in this field will together provide a multidisciplinary perspective.

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care, Imaging, Pulmonary function testing, Surgery

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Mina Gaga (Athens, Greece), Paul E. Van Schil (Edegem (Antwerp), Belgium)

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<td>14:45</td>
<td>What the radiologist can offer - the latest imaging and evaluation techniques for lung cancer screening and comorbidities</td>
<td>Hans-Ulrich Kauczor (Heidelberg, Germany)</td>
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<td>15:15</td>
<td>What the pneumologist can offer - rapidly evolving noninvasive and invasive diagnostic techniques</td>
<td>Dimitri Leduc (Bruxelles, Belgium)</td>
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<td>Cut it away wisely! Thoracic surgery for the solitary pulmonary nodule</td>
<td>Gilbert Massard (Strasbourg, France)</td>
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<td>16:15</td>
<td>Pulmonary nodules – incidental findings can we wait?</td>
<td>Gerard Silvestri (Charleston, United States of America)</td>
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### Session 495 14:45 - 16:45

#### Oral presentation: Advanced profiling of immune cells in chronic lung diseases

**Disease(s):** Interstitial lung diseases, Airway diseases

**Method(s):** General respiratory patient care, Cell and molecular biology

**Chairs:** Mirjam Kool (Rotterdam, Netherlands), Simon D. Pouwels (Groningen, Netherlands)

| OA4920  | Late Breaking Abstract - Elevated airway lymphocytes in adults born prematurely with a history of bronchopulmonary dysplasia | Jing Gao (Stockholm, Sweden), Petra Um-Bergstrom, Melvin Pourbazargan, Eva Berggren-Brostrom, Heta Merikallio, Riitta Kaarteenaho, Stacey Reinke, Craig E Wheelock, Erik Melen, Anders Linden, Asa M Wheelock, C Magnus Skold |
| OA4921  | Late Breaking Abstract - Intra-alveolar neutrophil-derived microvesicles: a biomarker of COPD severity | Justin Garner (Brentwood (Essex), United Kingdom), Sanooj Soni, Kieran O'Dea, Karthi Srikanthan, Eric Tenda, Arafa Aboelhassan, Suveer Singh, Samuel V Kemp, Michael R Wilson, Omar S Usmani, Pullav L Shah, Masao Takata |
| OA4922  | Late Breaking Abstract - Differentially expressed exosomal miRNAs target key inflammatory pathways in COPD. | Hannah Burke (Southampton (Hampshire), United Kingdom), Ashley Heinson, Anna Freeman, Kris Ostridge, Alastair Watson, Karl Staples, Mirella Spalluto, Tom Wilkinson |
| OA4923  | High dimensional single cell analysis reveals unexpected immune cell types, and loss of motility and chemokine receptor expression of alveolar macrophages in chronic obstructive respiratory disease | Wataru Fuji (Bonn, Germany), Kevin Bassler, Theodoros Kapellos, Carmen Pizarro, Johanna Klein, Dirk Skowasch, Joachim L. Schultz |
| OA4924  | Analysis of Immunoglobulin A and M gene expression and plasma cells in bronchial tissue from COPD patients with high blood eosinophil counts | Thomas Southworth (Manchester (Greater Manchester), United Kingdom), Umme Kolsum, Andrew Higham, Sriram Sridhar, Tuyet-Hang Pham, Paul Newbold, Dave Singh |
Lung dendritic cells correlate to small airway abnormality & lung CD4+ T cells: SPIROMICS bronchoscopy study
Mohamed Kady (Ann Arbor, United States of America), Stefanie Christenson, Valerie Stolberg, Melissa Bates, Wassim Labaki, Neil Alexis, Igor Barjaktarevic, Graham Barr, Eugene Bleecker, Richard Boucher, Russell Bowler, Christopher Cooper, David Couper, Claire Doeschuk, Meilan Han, Nadia Hansel, Annette Hastie, Eric Hoffman, Robert Kaner, Fernando Martinez, Deborah Meyers, Wanda O’Neal, Robert Paine, Nirupama Putcha, Micheal Wells, Prescott Woodruff, Christine Freeman, Jeffrey Curtis

Circulating MDSC modulate IPF progression by orchestrating immunosuppressive and pro-fibrotic networks
Isis Enlil Fernandez (München, Germany), Flavia R. Greiffo, Riti Roi, Jürgen Behr, Alistair Forrest, Oliver Eickelberg

Type-2 CD8+ T lymphocytes responsive to PGD2/LTE4 in severe eosinophilic asthma
Timothy Hinks (Oxford, United Kingdom), Bart Hilvering, Linda Stoger, Emanuele Marchi, Maryam Salimi, Rahul Shrimanker, Wei Lu, Wenta Chen, Jian Luo, Simei Go, Timothy Powell, Jennifer Cane, Samantha Thulborn, Ayako Kurioka, Tianqi Leng, Jamie Matthews, Clare Connolly, Catherine Borg, Mona Bafadhel, Christian Willberg, Adaikalavan Ramasamy, Ratko Djukanovic, Graham Ogg, Ian Pavord, Luzheng Xue

**7.3Z2**
Session 496  14:45 - 16:45

**Oral presentation: Interventional pulmonology highlights in 2018: ELVR, TLD and BT**

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care  Endoscopy and interventional pulmonology  Imaging

**Chairs:** Peter I. Bonta (Amsterdam, Netherlands), Pallav L. Shah (London, United Kingdom)

**OA4928 Late Breaking Abstract - Endobronchial Valves for Severe Emphysema – 12-month Results of the EMPROVE Trial**
Gerard J. Criner (Philadelphia, United States of America), Antoine Delage, Kirk Voelker

**OA4929 A double-blind, randomized, sham-controlled study of Targeted Lung Denervation in patients with moderate to severe COPD**
Dirk-Jan Slebos (Groningen, Netherlands), Pallav Shah, Felix Herth, Christophe Pison, Christian Schumann, Romain Kessler, Peter Bonta, Wolfgang Gesierich, Ralph-Harto Hubner, Kaid Darwiche, Bernd Lamprecht, Thierry Perez, Dirk Skowasch, Gaetaen Deslee, Arschang Valipour

**OA4930 Use of Ventilation-Perfusion Single-Photon Emission Computed Tomography (VQ SPECT) to Select the Target Lobe for Endobronchial Valves Lung Volume Reduction (EBV-LVR)**
Vanessa Sze Theen Tee (Adelaide (SA), Australia), Phan Nguyen, Dion Grosser, Hubertus Jersmann, Benjamin Crouch, Ghee Chew

**OA4931 Characterization of Chartis Phenotypes based on fissure completeness scores**
Christoph Ruwwe-Glösenkamp (Berlin, Germany), Theilig Dorothea, Felix Döllinger, Temmesfeld-Wollbruck, Stefan Hippenstiel, Suttrop Norbert, Ralf-Harto Huebner

**OA4932 Twelve-month positive outcomes of Zephyr endobronchial valves in severe emphysema patients: LIBERATE trial**
Dirk-Jan Slebos (Groningen, Netherlands), Shawn Wright, Richard Sue, Mark Dransfield, Hiram Rivas-Perez, Tanya Wiese, Frank Scerba, Pallav Shah, Momen Wahidi, Hugo De Oliviera, Brian Morrissey, Paulo Cardoso, Steven Hays, Adnan Majid, Nicholas Pastis, Lisa Kopas, Mark Vollenweider, Paul M. Mcfadden, Michael Machuzak, David Hsia, Arthur Sung, Nabil Jarad, Malgorzata Kornaszewska, Stephen Hazelrigg, Ganesh Krishna, Nick Ten Hacken, Narinder Shargill, Gerard Criner

**OA4933 Airway smooth muscle mass reduction after Bronchial Thermoplasty in asthmatics correlates with FEV1.**

**OA4934 Acute Airway Effects of Bronchial Thermoplasty Assessed by Optical Coherence Tomography (OCT)**
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Julia N.S. d’Hooghe, Daniel M. De Bruin, Inge A.H. Van Den Berk, Jouke T. Annema, Peter I. Bonta

**OA4935 Bronchodilator responsiveness as a success predictor for bronchial thermoplasty**
David Langton (Frankston (VIC), Australia), Alvin Ing, David Fielding, Wei Wang, Virginia Plummer, Francis Thien

**7.3K**
Session 497  14:45 - 16:45

**Symposium: Malignant pleural effusions**

**Aims:** To present the recently completed statement of the ERS task force on malignant pleural effusions and the primary results of AMPLE 2 and TAPPS, which are two recent randomised controlled trials on pleural malignancy. An update on the results of recent trials on the oncological management of mesothelioma will also be provided.
Disease(s) : Thoracic oncology
Method(s) : General respiratory patient care
Tag(s) : Clinical
Target audience : Clinical researcher, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician
Chairs : Giuseppe Cardillo (Roma (RM), Italy), Marios E. Froudarakis (Alexandroupolis, Greece)

14:45 2018 ERS-EACTS statement on malignant pleural effusions
Anna Bibby (Bristol (Avon), United Kingdom)

15:15 What is the best oncological management strategy for mesothelioma in 2018?
Arnaud Scherpereel (Lille, France)

15:45 Talc slurry vs. talc poudrage: primary results of the TAPPS trial
Rahul Bhatnagar (Bristol, United Kingdom)

16:15 Regular vs. symptomatic drainage of indwelling pleural catheters: primary results of the AMPLEx2 trial
Gary Yc Lee (Perth (WA), Australia)

Session 498
14:45 - 16:45
Oral presentation: Chronic thromboembolic pulmonary hypertension
Disease(s) : Pulmonary vascular diseases
Method(s) : Physiology  Cell and molecular biology  Epidemiology  General respiratory patient care  Surgery
Chairs : Gérald Simonneau (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)

OA4940 Late Breaking Abstract - Balloon Pulmonary Angioplasty for the Treatment of Non Operable Chronic Thromboembolic Pulmonary Hypertension – Initial experience of a Belgian Center
Laurent Godinas (Leuven, Belgium), Bonne Lawrence, Budts Werner, Belge Catharina, Leys Mathias, Delcroix Marion, Maleux Geert

OA4941 Pulmonary denervation is a new alternative non-pharmacological treatment for residual pulmonary hypertension after pulmonary endarterectomy
Alexander Edemskiy (Novosibirsk, Russian Federation), Alexander Chernyavskiy, Boris Rudenko, Natalya Novikova, Alexander Romanov

OA4942 Balloon pulmonary angioplasty (BPA) for inoperable chronic thromboembolic pulmonary hypertension (CTEPH)
Xavier Jais (Le Kremlin-Bicêtre, France), Philippe Brenot, Yu Taniguchi, Carlos Garcia, Olivier Planché, Benoît Gérardin, Sacha Musso, Olaf Mercier, Mitja Jevnikar, Laurent Savale, Florence Parent, Olivier Sitbon, David Montani, Marc Humbert, Elie Fadel, Gérald Simonneau

OA4943 Survival in medically treated chronic thromboembolic pulmonary hypertension patients
Marion Delcroix (Leuven, Belgium), Gerd Staehter, Henning Gall, Ekkehard Grünig, Matthias Held, Michael Halank, Hans Klose, Anton von-Noordegraaf, Stephan Rosenkranz, Joanna Pepke-Zaba, Christian Opitz, Simon Gibbs, Tobias Lange, Iraklis Tsangaris, Doerte Huscher, David Pittrow, Karen Olsson, Marius Hoepere

OA4944 Factors associated with survival in patients with not-operated chronic thromboembolic pulmonary hypertension (CTEPH) in the modern management era
Yu Taniguchi (Kobe, Japan), Xavier Jaïs, Athénaïs Bouclely, Jason Weatherald, Mitja Jevnikar, Philippe Brenot, Olivier Planché, Florence Parent, Laurent Savale, Elie Fadel, David Montani, Gérald Simonneau, Marc Humbert, Olivier Sitbon

OA4945 Macitentan in chronic thromboembolic pulmonary hypertension (CTEPH): experience from the OPUS registry
Nick Kim (La Jolla, United States of America), Richard Chanick, Vallerie McLaughlin, John Mcconnell, David Poch, Monika Brand, Erwan Muros-Le Rouziec, Mona Seloj, Kelly Chin

OA4946 Endothelial progenitor cells in chronic thromboembolic pulmonary hypertension
Keiko Yamamoto (Chiba, Japan), Rintaro Nishimura, Akira Naito, Fumiake Kato, Rika Suda, Takayuki Jujo Sanada, Seichiro Sakao, Nobuhiro Tanabe, Koichiro Tatsumi

OA4947 Local inhibition of angiogenesis combined with repeated blood clot embolization induces chronic thromboembolic pulmonary hypertension in rabbits
Rozenn Quarrck (Leuven, Belgium), Allard Wagenaar, Birger Tielemans, Pedro Mendes-Ferreira, Frederic Perros, Peter Dorfmueller, Catharina Belge, Marion Delcroix

Session 499
14:45 - 16:45
Oral presentation: Bronchiectasis: phenotypes, endotypes and new therapies
**Disease(s):** Airway diseases, Respiratory infections

**Method(s):** Cell and molecular biology, Epidemiology, Respiratory intensive care, General respiratory patient care

**Chairs:** Menno M. van der Eerden (Rotterdam, Netherlands), Anne Bernadette Chang (Brisbane (QLD), Australia)
Oral presentation: Epidemiology, phenotypes and cardiometabolic comorbidities of obstructive sleep apnoea

**Disease(s):** Sleep and breathing disorders

**Method(s):** General respiratory patient care  Physiology  Epidemiology  Public health

**Chairs:** Jan A. Hedner (Göteborg, Sweden), Jean-Louis Pépin (Grenoble, France)

- Late Breaking Abstract - European prevalence of OSA in adults: Estimation using currently available data
  Atul Malhotra (La Jolla, United States of America), Raphael Heinzer, Mary J Morrell, Thomas Penzel, Jean-Louis Pepin, Kate Valentine, Carlos Nunez, Adam Benjaffel

- Hypoxia and cardiovascular comorbidity in the ESADA OSA patients with insomnia symptoms
  Ulla Anttalainen (Paimio, Finland), Jan Hedner, Silke Ryan, Renata Riha, Ingo Fietze, Richard Staats, Ludger Grote, Tarja Saarensranta

- Sleep determinants of incident hypertension in a population-based cohort: the CoLaus/HypnoLaus study
  Raphael Heinzer (Lausanne, Switzerland), CAMILA HIROTsu, Pedro Marques-Vidal, Peter Vollenweider, Gérard Waeber, Monica Betta, Giulio Bernardi, Francesca Siclari, Jose Habá-Hubío

- Mild obstructive sleep apnoea (OSA) and arterial hypertension in the EuropeanSleep Apnoea Database (ESADA) cohort study.
  Izoëde Bouloukaki (Heraklion (Crete), Greece), Paschalis Steiropoulos, Marisa Bonsignore, Walter McNicholas, Jan Hedner, Ludger Grote, Oreste Marrone, Johan Verbraecken, Ozen Basoglu, Gianfranco Parati, Carolina Lombardi, Athanasia Patakia, Sophia Schizie

- Polysomnographic characteristics and cardiac function in coronary artery disease patients with nonsleepy obstructive sleep apnoea
  Yuksel Peker (Istanbul, Turkey), Baran Balcan, Helena Glantz, Erik Thunström

- Depression and response to CPAP treatment in coronary artery disease patients with sleepy vs nonsleepy obstructive sleep apnoea
  Yuksel Peker (Istanbul, Turkey), Baran Balcan, Erik Thunström

- THE ASSOCIATION OF BRAIN-DERIVED NEUROTROPHIC FACTOR GENE POLYMORPHISM WITH OBSTRUCTIVE SLEEP APNEA SYNDROME and OBESITY
  Nuri Tutar (Kayseri, Turkey), Mehmet Yükselkaya, Munis Dündar, Insu Yilmaz, Inci Gulmez, Fatma Sema Oymak, Burhan Balta, Keziban Korkmaz

- Obstructive sleep apnea as risk factor for incident metabolic syndrome: a multicentric prospective epidemiological study
  CAMILA HIROTsu (São Paulo, Brazil), Jose Haba-Hubio, Pedro Marques-Vidal, Sonia Togeiro, Peter Vollenweider, Gérard Waeber, Martin Preisig, Lia Bittencourt, Sergio Tufik, Raphael Heinzer

Poster discussion: Disease exacerbations from a molecular point of view

**Disease(s):** Respiratory infections  Airway diseases  Respiratory infections

**Method(s):** Imaging  Physiology  Cell and molecular biology

**Chairs:** Lydia Finney (London, United Kingdom), Jean-Michel Sallenave (Paris, France)

- Serum hyaluronidase-1 is increased in COPD exacerbations and is associated with COPD severity and outcomes
  Eleni Papakonstantinou (Thessaloniki, Greece), Ioannis Bonovolias, George Karakoulakis, Michael Tammi, Renaud Louis, Branišlava Milenković, Wim Boersma, Konstantinos Kostikas, Francesco Blasi, Joachim Aerts, Gernot Rohde, Alicia Lakoma, Antoni Torres, Tobias Welde, Daiana Stolz

- Modeling exacerbation using ozone exposure in COPD patients: CO3PD pilot study
  Mehrdad Arjomandi (San Francisco, United States of America), Sreelakshmi Vasudevan, Hofer Wong, Sarah Dalton, Siyang Zeng

- Investigation of the very early immune response in viral induced experimental asthma exacerbation
  Rebecca Bodenstein-Sgro (Borstel, Germany), Sina Webering, Michael Wegmann

- Club cell secretory protein: a key mediator in Mycoplasma pneumoniae infection.
  Julie Ledford (Tucson, United States of America), Stefano Guerra, Fernando Martinez, Monica Kraft

- Host defence functions of BPIFA1 against Non-typeable Haemophilus influenzae
  Renata Caikauskaitė (Sheffield (South Yorkshire), United Kingdom), Apoorva Mulay, Derek Hood, Steve Brown, James Stewart, Lynne Bingle, Colin Bingle
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**Oral presentation: Cystic fibrosis: diagnosis and monitoring**

- **Disease(s):** Airway diseases, Respiratory infections
- **Method(s):** Imaging, General respiratory patient care, Physiology
- **Chairs:** Alex Horsley (Manchester, United Kingdom), Laurie Smith (Sheffield (South Yorkshire), United Kingdom)

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<tr>
<th>PA4987</th>
<th>Do deviations in tidal breathing impact multiple breath washout measurements?</th>
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<td>Renee Jensen (Toronto (ON), Canada), Reginald McDonald, Sanja Stanojevic, Felix Ratjen</td>
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<th>PA4988</th>
<th>Lung clearance index and lung ultrasound in cystic fibrosis children</th>
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<td>Ioana Mihaiela Ciucu (Timisoara (Timis), Romania), Mihaela Dediu, Liviu Laurentiu Pop</td>
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<th>PA4989</th>
<th>Repeatability of ventilation and perfusion assessment by functional MRI in children with CF</th>
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<td>Sylvia Nyilas (Bern, Switzerland), Grzegorz Bauman, Orso Pusterla, Enno Stranzinger, Kathryn Ramsey, Florian Singer, Sophie Yamine, Carmen Casaulta, Oliver Bieri, Philipp Latzin</td>
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</table>
The effect of inhaled lung volume on ventilation heterogeneity in CF using 3He MRI
Laurie Smith (Sheffield (South Yorkshire, United Kingdom), Guilhem Collier, Helen Marshall, Paul Hughes, Jody Bray, Oliver Rodgers, Ina Aldag, Noreen West, Martin Wildman, Alex Horsley, Jim Wild

Comparison between the 1-minute sit-to-stand test and quadriceps strength in patients with cystic fibrosis
Sophie Hardy (Gembloux, Belgium), Silvia Berardis, Gregory Reychler, Sophie Gohy

Glycaemic variability indices are associated with increased pulmonary function decline in people with cystic fibrosis
Freddy Frost (Liverpool, United Kingdom), Paula Dyce, Dennis Wat, Martin Walshaw, Dilip Nazareth

7.2A Poster discussion: Understanding the immunopathology that underlies airway obstructive diseases

Session 504 14:45 - 16:45

Increased pro-inflammatory regulatory T Cells correlate with the plasticity of T helper cell differentiation in asthma
Jia Hou (, China), Lei Xin, Junjie Gao, Chengxuan Tian, Weirong Ma, Zhigang Tia, Xiewei Zheng

Th-17 cytokine profile in a Greek asthmatic population. Correlation with asthma severity and biomarkers of inflammation.
Kalliopi Dovroni (Thessaloniki, Greece), Konstantinos Porpodis, Georgios Tzimagiorgis, Fani Chatzopoulou, Despoina Ioannidou, Evangelia Fouka, Georgios Kyriazis, Theodores Kontakiotis, Despoina Papakosta

FOXP3 genetic variants are associated with asthma severity in Brazilian women.
Norma Carneiro (Salvador/BA, Brazil), Camila Figueiredo, Bianca Fiuza, Hugo Da Silva, Raimon Da Silva, Tamires Carneiro, Milca Silva, Valdires Carneiro, Ryan Costa, Jamille Fernandes, Luciana Cardoso, Alvaro Cruz Filho, Hellen Freitas

Variants in IL17A and IL17F are risk factors to uncontrolled asthma
Camila Figueiredo (Salvador BA, Brazil), Milca Silva, Regina Santos, Icanaã Brandão, Hellen Fonseca, Emilia Medeiros, Luciana Cardoso, Jamille Fernandes, Roberta Espinheira, Neuza Alcantara-Neves, Alvaro Cruz, Ryan Costa

The new approach to understand the role of IL-15 and BMP proteins in asthma remodelling based on methacholine challenge test evidence.
Marcelina Koćwin (Lódź, Poland), Mateusz Jonakowski, Lukasz Mokros, Michal Panek, Janusz Szemraj, Piotr Kuna

Unraveling the role of miR-223-3p in the regulation of airway inflammation in asthma
Mirjam P. Roffel (Groningen, Netherlands), Ilse Boudewijn, Victor Guryev, Corry-Anke Brandsma, Maarten Van Den Berge, Ken Bracke, Tania Maes, Irene Heijink

Mechanisms of impaired anti-bacterial Th1 responses in patients with chronic obstructive pulmonary disease
Dino Tan (Perth (WA), Australia), Dave Singh, Haydn Walters, Peter Wark, Yuben Moodley

Inflammatory mediators in eosinophilic COPD phenotype and asthma with fixed airflow obstruction
Jitsupa Onnina (Bangkok, Thailand), Therasuk Kawamatawong, Dhanesh Pitidhammborn, Chavachol Setthaudom

A novel house dust mite-induced asthma model in guinea pigs driven by mast cells
Patricia Ramos Ramirez (Stockholm, Sweden), Malin Noreby, Jieliu Liu, Joshua Gregory, Anne Petrén, Henric K. Olsson, Gunnar Nilsson, Sven-Erik Dahlén, Mikael Adner

Mast cell tryptase induce alarmin release and secretion of pro-inflammatory cytokines from bronchial epithelial cells
Sangeeta Ramu (Lund, Sweden), Leif Bjerman, Jonas Erjefält, Lena Uller, Cecilia Andersson

Dupilumab shows rapid and sustained suppression of inflammatory biomarkers in corticosteroid (CS)-dependent severe asthma patients in LIBERTY ASThma VENTURE
Klaus F. Rabe (Grosshansdorff, Germany), Guy Brusselle, Mario Castro, Lawrence Sher, Hingjie Zhu, Qunming Dong, Jennifer D. Hamilton, William Brian, Alexandre Jagerschmidt, Gianluca Pirozzi, Nikhil Amin, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper

Dupilumab improves mental health measures in patients with chronic rhinosinusitis and nasal polyposis (CRSwNP)
Asif Khan (Chilly-Mazarin, France), Claus Bachert, Robert Nacletto, Peter Hellings, Sophie Guillonneau, Christine Taniot, Jaman Maroni, Paul Rowe, Leda Mannent, Nikhil Amin, Siddhesh Kamat
Dupilumab shows rapid and sustained suppression of inflammatory biomarkers in asthma patients in LIBERTY ASThma QUEST
Sally Wenzel (Pittsburgh, United States of America), Ian D. Pavord, Klaus F. Rabe, Alberto Papi, J. Mark Fitzgerald, Alexandre Jaggerschmidt, William Brian, Qungming Dong, Brian N. Swanson, Jennifer D. Hamilton, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper

Triple combination of montelukast or tiotropium and inhaled corticosteroids plus long-acting β2-agonist in persistent asthma
Makoto Hoshino (Atami, Japan), Kenta Akitsu, Junichi Ohtawa

Safety profile of a novel peptide, PIN201104, with potential to act as a disease modifying, broad spectrum treatment for asthma
Jeannette Watson (Stevenage (Hertfordshire), United Kingdom), Donata Federici-Canova, Nicky Cooper, Clare Burgess

Bacterial lysates in the prevention of asthma exacerbations in uncontrolled asthma: the Breathe study
Geertje M. de Boer (Rhoon, Netherlands), Gert-Jan Braunstahl, Rudi W. Hendriks, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper

The effect of Mepolizumab for not completely satisfied Omalizumab treated asthmatics.
Motokazu Kato (Osaka, Japan)

Bronchoalveolar lavage transcriptome and eicosanoid profiles reveal heterogeneity of lower airway inflammation in aspirin-exacerbated respiratory disease (AERD)
Grażyna Bochenek (Kraków, Poland), Bogdan Jakiela, Anna Gielicz, Hanna Plutecka, Marek Przybyszowski, Jerzy Soja, Krzysztof Sladek

Poster discussion: Primary ciliary dyskinesia and lung function tests in respiratory morbidities

Do changes in spirometric indices and FeNO predict asthma outcomes in children? An individual patient data analysis using results from seven FeNO trials
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Shona Fielding, Marielle Pijnenburg, Johan De Jongste, Katy Pike, Graham Roberts, Helen Petsky, Anne Chang, Maria Fritsch, Thomas Frischer, Stan Szeftler, Peter Gergen, Françoise Vermeulen, Robin Vael

Reduced first trimester fetal size and asthma outcomes to age 29 years – results from a “virtual” birth cohort
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Lorna Aucott

Associations of maternal Chlamydia trachomatis infection with wheezing, lung function and asthma in children.
Evelien R. van Meel (Rotterdam, Netherlands), Marina Attanasi, Irwin K. Reiss, Henriëtte A. Moll, Johan C. De Jongste, Vincent W. V. Jaddoe, Liesbeth Duijts

Lung function and oral health in adolescents
Joachim Heinrich (München, Germany), Elisabeth Thiering, Rudolf Jörres, Holger Schulz, Jan Kühnisch, Marie Standl

Prenatal exposure to organochlorine compounds and lung function until early adulthood
Maribel Casas (Barcelona, Spain), Maribel Casas, Alicia Abellán, Raquel Garcia, Maties Torrent, Céline Roda, Mireia Gascón, Amparo Ferrero, Maria-Jose Lopez-Espinosa, Carlos Zabaleta, Mikel Basterrechea, Joan Grimalt, Judith Garcia-Aymerich, Martine Vrijheid, Jordi Sunyer

Prenatal exposure to perfluoroalkyl substances and immune and respiratory outcomes
Maribel Casas (Barcelona, Spain), Cynthia B. Manzano-Salgado, Berit Granum, Maria-Jose Lopez-Espinosa, Ferran Ballester, Carmen Iñiguez, Mireia Gascon, David Martinez, Mónica Guex, Mikel Basterretxea, Carlos Zabaleta, Thomas Schettgen, Jordi Sunyer, Martine Vrijheid

Longitudinal changes in spirometry in perinatally HIV-infected adolescents on antiretroviral therapy in Cape Town, South Africa
Leah Githinji (Cape Town, South Africa), Diane Gray, Sipho Hlengwa, Takwanisa Machemedze, Landon Myer, Heather Joy Zir

Associations between early life exposure to pollen and adolescent lung function are modified by residential greenness
Katrina Anne Lambert (Bundoora, Australia), Caroline Lodge, Luke A Prendergast, Gayan Bowatte, Adrian Lowe, Matthias Wjst, Michael J Abramson, Shyamali C Dharmage, Bircan Erbas
Prevalence of exercise-induced bronchoconstriction and exercise-induced laryngeal obstruction in adolescents attending national sports high school
Henrik Johansson (Uppsala, Sweden), Karin Ersson, Andrei Malinovschi, Elisabet Mallmin, Katarina Norlander, Leif Nordang

Infant lower respiratory tract illness reduces lung function at 2 years in African children
Diane Gray (Cape Town, South Africa), Lidija Turkovic, Lauren Mcmillan, Carvern Jacobs, Jacobus A. Stadler, Aneesa Vanker, Zoltan Hantos, Doretyta Czovek, Peter D. Sly, Graham L. Hall, Heather J. Zar

Neonatal manifestations in Primary Ciliary Dyskinesia: a multinational cohort study
Myrofora Goutaki (Bern, Switzerland), Florian S. Halbeisen, Agatha C. Wisse, Israel Amirav, Angelo Barbato, Carmen Casaula, Suzanne Crowley, Eric G. Haarman, Robert A. Hirst, Bulent Karadag, Jane S. Lucas, Lucy Morgan, Ugur Ozcelik, Santiago Uceros, Panayiotis Yialllouros, Zorica Zivkovic, Philipp Latzin, Claudia E. Kuehni

Accuracy of high-speed video microscopy to diagnose primary ciliary dyskinesia
Bruna Rubbo (Southampton (Hampshire), United Kingdom), Robert A. Hirst, James Thompson, Joseph Hayes, Emily Frost, Fiona Copeland, Christopher O’Callaghan, Claire Hogg, Jane S. Lucas

Prevalence and Impact of Lung Resection in Primary Ciliary Dyskinesia: a cohort and nested case-control study

Clinical features & management of 334 children with primary ciliary dyskinesia in the English National Cohort
Woolf Walker (Southampton (Hampshire), United Kingdom), Bruna Rubbo, Sunayna Best, Robert Hirst, Florian Galhleitner, Siobhan B. Carr, Philip Chetcuti, Claire Hogg, Priti Kenia, Jane S. Lucas, Eduardo Moya, Manjith Narayanan, Christopher O’Callaghan, Michael Williamson

Measurement of volatile organic compounds in exhaled breath of children of the ALL Age Asthma Cohort
Oliver Fuchs (Bern, Switzerland), Maximilian Ehrmann, Erika Von Mutius, Gesine Hansen, Matthias Kopp, Jens M. Hohlfeld, Olaf Holz

Early life home indoor bacterial and fungal microbiota measured with amplicon sequencing and risk of asthma by the age of 10.5 years
Juha Pekkanen (Helsingin yliopisto, Finland), Martin TiiBulbe, Pirkka Kirjavainen, Anne Hyvarinen, Sami Remes, Erika Von Mutius, Anne Karvonen, Paul Mercor (paul.mercer@ucl.ac.uk / UCL, London), Rachel Chambers (r.chambers@ucl.ac.uk / UCL, London)

An observational study of incident diagnoses of children’s diffuse parenchymal lung disease (ChILDEU)
Steve Cunningham (Edinburgh (Nicosia), Cyprus), Martin TiiBulbe, Pirkka Kirjavainen, Anne Hyvarinen, Sami Remes, Erika Von Mutius, Anne Karvonen, Paul Mercor (paul.mercer@ucl.ac.uk / UCL, London), Rachel Chambers (r.chambers@ucl.ac.uk / UCL, London)

Symptoms of vocal cord paresis among children born extremely premature with- or without PDA ligation. A Norwegian national cohort study.
Merete S. Engeseth (Bergen, Norway), Silje Maeland, Hege Clemm, Maria Vollseter, Mette Engan, Thomas Halvorsen, Ola Roekind

Late-onset asthma: A distinct phenotype
Anastasia Papaporfirou (Mandra, Greece), Georgios Hillas, Andriana Papaioannou, Konstantinos Kostikas, Elissavet Konstantelou, Eleni Tseliou, Nikolaos Koulouris, Spyridon Papiris, Petros Bakakos, Stelios Loukides

Clustering of adherence variability metrics and clinical outcomes in asthma
Helen Reddel (Sydney (NSW), Australia), Jacqueline HuVandananda, Chinh Nguyen, Juliet Foster, Urs Frey, Cindy Thamrin

New-onset asthma in adults; does the trigger predict outcome?
Hanneke Coumou (Amsterdam, Netherlands), Guus Westerhof, Selma De Nijs, Marijke Amelink, Elisabeth Bel
PA5032 Treatment of multimorbid asthma patients in structured care. Results from the Disease Management Program (DMP) Bronchial Asthma in the North Rhine region in Germany.
Arne Weber (Köln, Germany), Sabine Groos, Jens Kretschmann, Christine Macare, Bernd Hagen

PA5033 Sputum eosinophils vary by time of day in severe asthma: Implications for management
Gael Tavernier (Manchester (Greater Manchester), United Kingdom), Steve, J Fowler, Dave Allen, Angela Simpson, Hannah Durrington, Robert Niven

PA5034 Analysis of wheezing in patients with partially controlled bronchial asthma during intrabronchial auscultation
Irina Ponomareva (Ryazan, Russian Federation), Vladimir Abrosimov, Sergei Glotov, Yuriy Petrov

PA5035 The Value of Voluntary Cough Sounds for Diagnosis of Pulmonary Disease
Richard Fletcher (Cambridge, United States of America), Christian Infante, Yogesh Thorat, Vandana Vincent, Sundee Salvi

PA5036 Healthcare resource utilisation (HRU) in the Asthma Salford Lung Study (SLS asthma)
Dominy Browning (London, United Kingdom), Nawar Diar Bakerly, John P New, Norman Stein, Henrik Svendsater, David A Leather, James Lay-Flurrie, Joanne Fletcher

PA5037 Serum Surfactant Protein D is decreased by oral steroids in asthma but not COPD
Rose-Marie Mackay (Southampton (Hampshire), United Kingdom), Howard Clark, Laurie Lau, Anna James, Maciej Kupczyk, Sven-Erik Dahlén, Peter Howarth

PA5038 Small airway dysfunction in asthma: a real life study
Alvise Berti (Milan, Italy), Anita Licini, Carlo Lombardi, Marcello Cottini

PA5039 Reduced lung function and exhaled lining fluid from small airways
Jeong-Lim Kim (Gothenburg, Sweden), Emilia Viklund, Helen Friberg, Hatice Koca Akdeva, Anna-Carin Olin

PA5040 Effects of physiological variation on parameter estimates in a dynamic model of FeNO
Patrick Muchmore (Pasadena, United States of America), Sandrah Eckel, Edward Rappaport, Yue Zhang, Erika Garcia, Kiros Berhane, William Linn, Noa Molshatski, Rima Habre, Frank Gilliland

PA5041 Effects of aerobic exercise on asthma control in eosinophilic asthma patients: a randomized controlled trial
Annie-Claude Jalbert (Montréal (QC), Canada), Kim Lavoie, Simon Bacon

PA5042 Treatment decisions with an exhaled nitric oxide (eNO)-based algorithm vs a symptoms-based algorithm for asthma in pregnancy
Vanessa E. Murphy (Callaghan, Australia), Heather Powell, Celeste Porsbjerg, Peter Gibson

PA5043 Identification of treatable traits in a severe asthma registry: prevalence and exacerbation predictors
Vanessa M. McDonald (Newcastle (NSW), Australia), Sarah A. Hiles, Krystelle Godbout, Erin S. Harvey, Guy B. Marks, Mark Hew, Matthew Peters, Philip Bardin, Paul N. Reynolds, John W. Upham, Melissa Baraet, Zaeheerdin Bhikoo, Jeffrey Bowden, Ben Brockway, Li Ping Chung, Belinda Cochrane, Gloria Foxley, Jeffrey Garrett, Lata Jayaram, Christina Jenkins, Constance Katselaris, Gregory Katsoulotos, Mariko S. Koh, Vicky Kritikos, Marina Lambert, David Langton, Alexis Lara Rivero, Peter Middleton, Aldolph Nanguzgambo, Nghmeh Radhakrishna, Helen Reddel, Janet Rimmer, Anne Marie Southcott, Michael Sutherland, Francis Thien, Peter Wark, Ian A. Yang, Elaine Yap, Peter G. Gibson

PA5044 Evaluation of inflammatory markers MMP-2 and TIMP-1 in Asthma
Kirankumar Sivakoti (miyalguda, India), Chaya S.K, Jayaraj B.S, Lokesh K.S, Vivek Vardhan Veerapaneni, Subbarao Madhunapantula, Mahesh Pa

PA5045 Small airway dysfunction in elderly patient with asthma: a real life study
Alvise Berti (Milan, Italy), Anita Licini, Carlo Lombardi, Marcello Cottini

PA5046 Asthma control and asthma severity in relation to sleep disturbances: Results of the LifeGene study
Fredrik Sundbom (Uppsala, Sweden), Andrei Malinovschi, Eva Lindberg, Catarina Almqvist, Christer Janson

7.2D Session 507 14:45 - 16:45
Poster discussion: Biomarkers and lung function in airway disease

Disease(s): Airway diseases
Method(s): Epidemiology Cell and molecular biology General respiratory patient care Physiology Imaging
Chairs: Arschang Valipour (Wien, Austria), Andre Nyberg (Umeå, Sweden)

PA5047 Late Breaking Abstract - Influence of omalizumab therapy on airway remodelling assessed with high-resolution computed tomography (HRCT) in severe allergic asthma patients
Marek Przybyłowski (Kraków, Poland), Kinga Paciorek, Weronika Zastrzegzynska, Agnieszka Gawlewick-Mroczka, Anna Trojan-Krolikowska, Anna Orłowska, Jerzy Soja, Wiesław Pawlik, Krzysztof Śladek

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The two sides’ view of asthma-COPD overlap: a real life population approach.
Núria Toledo Pons (Palma De Mallorca, Spain), Job F.M. Van Boven, Miguel Román-Rodriguez, José Luis Valera, Aina Millán Pons, Borja B. Cosío

Airways mucus pathogenesis in patients with non-cystic fibrosis bronchiectasis
Kathryn Ramsey (Bern, Switzerland), Giorgia Radicioni, David Hill, Camille Ehre, Brian Button, Neil E Alexis, Michael Knowles, Scott Donaldson, Mehmet Kesimer, Michael Mcguckin, Richard Boucher

Associations between PCD-specific health-related quality of life (QOL-PCD) outcomes and clinical measures
Helene Kobbermagel (København Ø, Denmark), Frederik F. Buchvald, Laura Behan, Jane S. Lucas, Eric G. Haarman, Niels W. Rutjes, Anika Gross, Heinmut Omran, Claire Hogg, Carmen Casaulta, Claudia E. Kuehni, Samuel A. Collins, Maria C. Philipsen, Alexandra L. Quittner, Kim G. Nielsen

Change of mucus rheology in patients with Cystic Fibrosis, COPD and Asthma
Jeremy PATARIN (Saint Martin D’Heres, France), Etienne Ghiringhelli, Claire Cracowski, Boubou Camara, Sebastien Quetant, Cécile Bosc, Christophe Pison, Jean-Luc Cracowski

Prognostic value of FeNO-guided assessment to identify steroid-responsive respiratory symptoms
Josh Brewin (Oxford, United Kingdom), Kay Wang, Jan Verbakel, Alex Fleming-Nouri, Jason Oke, Ian Pavord, Mike Thomas

Transforming growth factor-β1 and Matrix Metalloproteinase-9 as factors of airway remodeling among asthmatic patients
Vladyslava Kmyta (Sumy, Ukraine), Liudmyla Prystupa

Prognostic value of FeNO-guided assessment to identify steroid-responsive respiratory symptoms
Josh Brewin (Oxford, United Kingdom), Kay Wang, Jan Verbakel, Alex Fleming-Nouri, Jason Oke, Ian Pavord, Mike Thomas

The Inhaler Proficiency Score: a useful and valid tool for the assessment of good inhaler technique
Breda Cushen (Dublin 11, Ireland), Garrett Greene, Fiona Lannon, Seamus Cowman, Lisa Mellon, Richard W Costello, Elaine Mac Hale

Clinical relevance of small airways assessment by lung function tests in asthma
Chloé Depoortère (Phalempin, France), Thierry Perez, Cécile Chenivesse, Stéphanie Fry

129Xenon-enhanced magnetic resonance imaging to understand particle exhalation from the human lung
Olaf Holz (Hannover, Germany), Agilo Kern, Heike Biller, Anna-Carin Olin, Jens Vogel-Claussen, Jens M. Hohlfeld

Comparison between Impulse oscillometry and Resmon Pro and the use of inspiratory parameters
Linnea Jarenbäck (Gantofta, Sweden), Leif Bjdermer, Ellen Tufvesson

FEV1/FEV3 ratio as an alternative to fixed ratio of FEV1/FVC
Adam Bialas (Łódź, Poland), Kamil Kornicki, Maciej Ciebiada, Joanna Milkowska - Dymanowska, Wojciech Piotrowski, Adam Antczak, Paweł Gorski

Ordinal scales are not accurate to assess and measure respiratory rates in children
Will Daw (Sheffield (South Yorkshire), United Kingdom), Ruth Kingshott, Heather Elphick

Serum levels of IL-5, IL-6 and IL-8 in moderate and severe asthma clusters
Denitsa Dimitrova (Sofia, Bulgaria), Vania Yourooukova, Tsvetelina Velikova, Kalina Tumangelova-Yuzeir

Biomarker-assisted characterisation of non-type 2 disease in young asthmatics
Nikolaos Tsolakisd (Uppsala, Sweden), Andrei Malinovschi, Christier Janson, Kjell Alvin

Blood eosinophils and exacerbation rate in COPD patients over three years
Robson Aparecido Prudente (Botucatu (SP), Brazil), Carolina Mesquita, Renata Ferrari, Estefânia Franco, Suzana Tanni

Ergoreflex and the method of assessing the functional status in patients with COPD
Irina Ponomareva (Barcelona, Spain), Clara Padró Casas, Maria Basagaña Torrento, Marisa Rivera Ortu, Maria Del Mar Martínez Colls, Carlos Pollan Guisasola, Alicia Francisco Vicente, Eva Martinez Cáceres, Aina Teniente, Albert Roger, Juan Ruiz Manzano, Carlos Martinez Rivera

Prognostic factors in severe eosinophilic asthma
Felipe Gonçalves Dos Santos Carvalho (Barcelona, Spain), Clara Padró Casas, Maria Basagaña Torrento, Marisa Rivera Ortu, Maria Del Mar Martínez Colls, Carlos Pollan Guisasola, Alicia Francisco Vicente, Eva Martinez Cáceres, Aina Teniente, Albert Roger, Juan Ruiz Manzano, Carlos Martinez Rivera
PA5065  Doctor diagnosed asthma and wheeze among Chinese pre-school children in relation to indoor and outdoor air pollution and urbanization
Dan Norback (Uppsala, Sweden), Chan Lu, Juan Wang, Yinping Zhang, Baizhan Li, Zhuohui Zhao, Chen Huang, Xin Zhang, Hua Qian, Yuexia Sun, Jan Sundell, Qihong Deng

PA5067  Relationships between nitrogen dioxide exposure, post-bronchodilator airflow obstruction and gas transfer in middle-age
Jennifer Perret (Melbourne (VIC), Australia), Gayan Bowatte, Luke Knibbs, David Johns, Caroline Lodge, Adrian Lowe, Dinh Bui, Melanie Matheson, Bruce Thompson, Stephen Morrison, Graham Giles, E Haydn Walters, Michael Abramson, Shyamali Dharmage

PA5068  Occupational and environmental risk factors for Idiopathic Pulmonary Fibrosis in Australia
Michael J. Abramson (Melbourne (VIC), Australia), Tsitsi Murambadoro, Sheik M. Alif, Geza Benke, Shyamali Dharmage, Ian Glaspole, Peter Hopkins, Ryan Hoy, Sonja Klebe, Yuben Moodley, Shuli Rawson, Paul Reynolds, Rory Wolfe, E. Haydn Walters, Tamera J. Corte, F O R  The Australian I.P.F. Registry

PA5069  Diastolic blood pressure effect of traffic-related air pollution: a trial of vehicle filtration
Joel Kaufman (Seattle, United States of America), Michael Young, Karen Jansen, Tim Gould, Coralynn Sack, Laura Hooper, Jim Stewart, Tim Larson, Sverre Vedal

PA5070  Controlled human exposure study of diesel exhaust on older volunteers with and without COPD
Min Hyung Ryu (Vancouver (BC), Canada), Denise Wooding, Nafeez Syed, Jordan Guenette, Christopher Carlsten

PA5071  Atmospheric simulation chamber: a versatile tool to get a comprehensive understanding of Air Quality impacts on health in preclinical models
Maeva Zysman (Montreuil, France), Marie-Laure Franco-Montoya, Audrey Der Vartanian, Mathieu Cazenau, Maria Pini, Jean-Francois Doussin, Sophie Hue, Frederic Relaix, Genevieve Derumeaux, Jorge Bozkowski, Sophie Lanone

PA5072  Airborne pollen concentrations and daily respiratory disease mortality
Jouni J.K. Jaakkola (Oulu, Finland), Simo-Pekka Kiihamäki, Simo Näyhä, Niilo R.I. Ryti, Maritta S. Jaakkola

PA5073  Benefits of improved air quality on the aging lungs
Tamara Schikowski (Dusseldorf, Germany), Anke Hüls, Dorothee Sugiri, Michael J Abramson, Barbara Hoffmann, Ursula Krämer

PA5074  Influence of air pollution residues on the respiratory health of urban transport drivers in a city of Säo Paulo State - Brazil
Renata C Rossi (Presidente Prudente (SP), Brazil), Danillo Nascimento Vicente, Camila Sousa Vilela, Isabelas Santos Souza, Nathalye Fernanda Pedroso Dircksen, Marcus Vinicius Pimenta Rodrigues

PA5075  Asthma and selective migration away from farming environments in a three-generation cohort study
Signe Timm (Århus C, Denmark), Morten Frydenberg, Michael Abrahamson, Randi Bertelsen, Lennart Bräbäck, Bryndis Benediktsdottir, Shyamali Dharmage, Bertil Forsberg, Thorarinn Gislad, Mathias Holm, Christer Janson, Rain Jogi, Andrei Malinovski, José Ramos, Torben Sigsgaard, Ceciiee Svanes, Vivi Schlünsens

PA5076  Influence of air pollution on the number of hospital admissions in a Pneumology service
Ana Cerezo Hernández (Valladolid, Spain), Tomás Ruiz Albi, Andrea Crespo Sedano, Daniel Alvarez Gonzalez, Raúl López Izquierdo, Ana Gómez García, Noanalco Alonso Fernández, Carmen López Repesa, Félix Del Campo Matias

PA5077  Epidemiology of silicosis reported to the SWORD scheme in the UK.
Christopher Barber (Sheffield (South Yorkshire), United Kingdom), David Fishwick, Martin Seed, Melanie Carder, Martie Van Tongeren

PA5078  Indoor airborne microbiota composition associated with asthma and atopy in rural children

PA5079  Active smoking and a past myocardial infarction status induce more vulnerability to urban heat stress in COPD
Christian Witt (Berlin, Germany), Christina Hoffmann, Marc Hanisch, Jana B. Heinsöhn, Vanessa Dostal, Melissa Jahn, Uta Liebers, Wulf Pankow, Gavin C. Donaldson

PA5080  Work-related effects on lung function, small airways and inflammation in hairdressers with airway symptoms – a pilot study
Mona Lärstad (Göteborg, Sweden), Anna-Carin Olin

PA5081  Parental concern about indoor air quality and symptom reporting in primary schools
Jussi Lampi (Kuopio, Finland), Juho-Jooel Nissilä, Sari Ung-Lanki, Kateryna Savelieva, Juha Pekkanen
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<td>INDUSTRY EVENING SYMPOSIUM</td>
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<td>17:30-19:00</td>
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<td>17:30-19:00</td>
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**Lung functional failures of aircraft crew members after “fume event”: diagnostics and biomonitoring**

Astrid Heutelbeck (göttingen, Germany), Xaver Baur, Thomas Goen, Naomi Mohr, Frank Powitz, Lygia Therese Budnik
# Session 521: Symposium: State of the art session: Paediatric respiratory diseases

**Aims:** This session will provide clinicians with practical take-home messages regarding the key management and health policy issues that relate to the respiratory health of children and young people.

**Disease(s):** Paediatric respiratory diseases

**Method(s):** Epidemiology, General respiratory patient care, Public health, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Trainee

**Chairs:** Bülent Taner Karadag (Istanbul, Turkey), Ricardo Miguel Ribeiro Marques Cunha Fernandes (Lisboa, Portugal)

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<tr>
<th>Time</th>
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<tr>
<td>08:30</td>
<td>Bacterial pneumonia in children: a global perspective</td>
<td>Rebecca Nantanda (Kampala, Uganda)</td>
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<td>09:00</td>
<td>E cigarettes and children: should we be concerned?</td>
<td>Alexander Larcombe (Perth (WA), Australia)</td>
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<tr>
<td>09:30</td>
<td>Primary ciliary dyskinesia</td>
<td>Jane Lucas (Southampton (Hampshire), United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>Systemic diseases and the lungs of children</td>
<td>Sharon Dell (Toronto (ON), Canada)</td>
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# Session 522: Hot topics: New trends in the management of pulmonary hypertension

**Aims:** To update attendees on major advances in the management of patients with pulmonary hypertension

**Disease(s):** Pulmonary vascular diseases

**Method(s):** General respiratory patient care, Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Radiologist, Adult pulmonologist/Clinician

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Luke Howard (London, United Kingdom)

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<th>Time</th>
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<tr>
<td>08:30</td>
<td>Risk stratification in pulmonary arterial hypertension (PAH)</td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
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<td>09:00</td>
<td>New therapeutic targets in pulmonary arterial hypertension (PAH): moving from preclinical data to phase 2 studies</td>
<td>Martin Wilkins (London, United Kingdom)</td>
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<tr>
<td>09:30</td>
<td>Balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension (CTEPH): does it perform as well as we hoped?</td>
<td>Xavier Jais (Le Kremlin-Bicêtre, France)</td>
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<td>10:00</td>
<td>Rehabilitation: presentation of the ERS task force paper</td>
<td>Ekkehard Grünig (Heidelberg, Germany)</td>
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# Session 523: Symposium: Respiratory medicine meets rheumatology

**Aims:** To explore the pathophysiology, symptoms, diagnosis and treatment of interstitial lung diseases that associate with connective tissue diseases (CTDs) and interstitial pneumonia with autoimmune features (IPAF). This session is endorsed by the European League Against Rheumatism (EULAR).

**Disease(s):** Interstitial lung diseases, Pulmonary vascular diseases

**Method(s):** Cell and molecular biology, Imaging, Pulmonary function testing, Transplantation

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Radiologist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Michael Tamm (Basel, Switzerland), Clive Kelly (Gateshead, United Kingdom)
08:30  Is it a connective tissue disease? Antibody patterns that the pulmonologist should be aware of
Diego Kyburz (Basel, Switzerland)  5140

09:00  Undifferentiated systemic rheumatic diseases and overlap syndromes: when can we diagnose interstitial pneumonia with autoimmune features (IPAF)?
Katerina Antoniou (Heraklion, Greece)  5141

09:30  The chicken or the egg: drug-induced pulmonary disease in rheumatology
Clive Kelly (Gateshead, United Kingdom)  5142

10:00  Treating systemic sclerosis with lung involvement: from observation to stem cell transplantation
Alan Tyndall (Florence, Italy)  5143

7.3C  Session 524  08:30 - 10:30
Hot topics: New drugs, strategies and research designs for advanced non-small cell lung cancer

Aims: This joint hot topic session with the EORTC offers a comprehensive overview of the latest developments in the treatment of advanced lung cancer. Current treatment strategies will be described. This will help attendees to integrate the newest clinical trial knowledge into routine lung cancer care. A perspective on new lung cancer study designs will also be provided.

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology
Tag(s): Translational
Target audience: Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Radiologist, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs: Otto Chris Burghuber (Vienna, Austria), Georgia Hardavella (London, United Kingdom)

08:30  Modern profiling of advanced lung cancer at the primary diagnosis and during therapy
Susann Stephan-Falkenau (Berlin, Germany)  5144

09:00  Immunotherapy: when, who and which drug?
Jacques Cadranel (Paris Cedex 20, France)  5145

09:30  Targeting targeted therapies: more choices and the best sequences
Jair Bar (Tel-Aviv, Israel)  5146

10:00  The future of translational lung cancer research: from classical randomised controlled trials to innovative platform trials
Jessica Menis (Padova, Italy)  5147

7.3Z1  Session 525  08:30 - 10:30
Hot topics: The complexities of managing mild asthma

Aims: (i) To learn about the prevalence and risks of mild asthma; (ii) to understand the attitudes of asthma patients to asthma medications; (iii) to learn from other disciplines about how to communicate effectively with patients about health risks; and (iv) to explore new evidence regarding novel treatment options for mild asthma and potential future directions.

Disease(s): Airway diseases
Method(s): Epidemiology  General respiratory patient care  Public health
Tag(s): Clinical
Target audience: Allergist, Clinical researcher, General practitioner, Nurse, Patient, Policy maker, Trainee, Adult pulmonologist/Clinician
Chairs: Eric D. Bateman (Cape Town, South Africa), Antoine Magnan (Nantes, France)

08:30  What is ‘mild asthma’, and how common is it?
Mark Fitzgerald (Vancouver (BC), Canada)  5148

09:00  “My reliever helps me control my asthma”: patient attitudes to asthma inhalers
Helen Reddel (Sydney (NSW), Australia)  5149

09:30  Risk communication in mild asthma: learning from other disciplines
Michelle N Eakin (Baltimore, United States of America)  5150

10:00  Filling the gaps: future treatment options for mild asthma
Paul O’Byrne (Hamilton (ON), Canada)  5151
**7.3B**

**Session 526**  
08:30 - 10:30

**Oral presentation: Does asthma phenotyping improve treatment?**

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, Public health, General respiratory patient care, Epidemiology

**Chairs:** Stephen James Fowler (Preston (Lancashire), United Kingdom), William Busse (Madison, United States of America)

OA5152  
**Late Breaking Abstract - Oral corticosteroids exposure in a Swedish nationwide asthma population during 2006-2016**  
Bright Nwaru (Gothenburg, Sweden), Bright Nwaru, Magnus Ekström, Fredrik Wiklund, Gunilla Telg, Helene Nordahl, Christer Janson

OA5153  
**Discriminating phenotypes of severe eosinophilic asthma using gene profiling in sputum**  
Laurits Frassing (Copenhagen V, Denmark), Anna Von Bülow, Marcus Ross Christensen, Vibeke Backer, Peter Gibson, Katherine Baines, Celeste Forsbjer

OA5154  
**Pulmonary function and levels of serum leptin and interleukin-6 in women with bronchial asthma**  
Evgeniya Makarova (Chelyabinsk, Russian Federation), Galina Ignatova

OA5155  
**Effects of a standardized Emergency Department asthma care pathway on health services utilization**  
Chanel Kwok (Kingston (ON), Canada), Katherine Lajkosz, Carole Madeley, Mona Jabbour, Teresa To, M. Diane Lougheed

OA5156  
**Sex differences in difficult asthma; findings in the WATCH cohort**  
Anna Freeman (Southampton, United Kingdom), Heena Mistry, Adnan Azim, Matt A.E. Harvey, Judit Varkonyi-Sepp, Clair Barber, Hans Michael Haich, Colin Newell, Tom M Wilkinson, Ramesh J Kurukulaaratchy

OA5157  
**Phenotypic characteristics of asthmatic patients with small airways obstruction**  
Amani Ben Mansour (Tunis, Tunisia), Salsabil Daboussi, Samira Mhamdi, Zied Moetemri, Chiraz Aichaouia, Islam Mejri, Mohsen Khadraoui, Rzeig Cheikh

OA5158  
**Influence of natural lung surfactant inhalations on clinical symptoms and pulmonary function parameters in patients with bronchial asthma**  
Oleg Rosenberg (St. Petersburg, Russian Federation), Konstantin Shapovalov, Sergey Lukyanov, Olga Stepanova, Elena Akulova, Aleksandra Kochnova, Andrey Seiliev, Aleksey Shulga, Lidiya Loshakova, Vladimir Volezhkov, Olga Lovacheva

**7.3Z2**

**Session 527**  
08:30 - 10:30

**Oral presentation: New determinants of cardiovascular morbidity in COPD**

**Disease(s):** Airway diseases

**Method(s):** Physiology, General respiratory patient care, Epidemiology, Public health, Imaging

**Chairs:** Frits M.E. Franssen (Horn, Netherlands), Chair to be confirmed

OA5159  
**Late Breaking Abstract - Right heart structural changes, exercise capacity and stress induced right ventricle dysfunction in non-severe COPD patients without pulmonary hypertension at rest.**  
Radostina Cherneva (Sofia, Bulgaria), Zheina Cherneva, Dinko Valev, Rosen Petkov, Dimitar Kostadinov

OA5160  
**Comorbidities in chronic obstructive pulmonary disease: a nation-wide twin study**  
Howraman Meteran (København, Denmark), Simon Francis Thomsen, Martin R Miller, Torben Sigsgaard, Vibeke Backer

OA5161  
**Association between centrilobular emphysema and coronary artery calcification: mediation analysis in the SPIROMICS cohort**  
Surya Bhatt (Birmingham, United States of America), Hrudaya Nath, Young-Il Kim, Rekha Ramachandran, Jubal Watts, Nina Terry, Sushil Sonavane, Swati Deshmone, Prescott Woodruff, Elizabeth Oelsner, Sandeep Bodduhuri, Meilan Han, Wassim Labaki, James Wells, Fernando Martinez, Graham Barr, Mark Dransfield

OA5162  
**In people at high risk of cardiovascular disease, co-existing COPD is not independently associated with macrovascular or microvascular disease**  
Sachelle V. Ruickbie (London, United Kingdom), D R Barrage, M P K Bajaj, C A Spilling, J W Dodd, A Prasad, T R Barrick, P W Jones, E H Baker

OA5163  
**Influence of body mass on predicted values of static hyperinflation in COPD**  
Peter Alter (Marburg, Germany), Klaus F Rabe, Holger Schulz, Claus F Vogelmeier, Rudolf A Jörres

OA5164  
**Association between ICS therapy for COPD and diabetes onset and progression**  
Jaco Voorham (Singapore, Singapore), Nicolas Roche, Jeffrey Stephens, Hye Yun Park, Robert Fogel, Andreas Clemens, Guy Brusselle, David Price

OA5165  
**Low FFMI according to ESPEN cut-offs is a strong independent predictor of mortality in patients with COPD**  
Irena Sare (Ljubljana, Slovenia), Tatjana Kosten, Tomaz Hafner, Barbara Zupanc, Kristina Zihrel
Score for the identification of osteoporosis in smokers (SIOS): its development using clinical, radiological and biochemical information

Pilar Rivera Ortega (Barcelona, Spain), Jessica González Gutiérrez, Patricia Restituto Aranguíbel, Nerea Varo Cenarruzabeitia, María Inmaculada Colina Lorda, María De Los Desamparados Calleja Canelas, María Macarena Rodríguez Fraile, Gorka Bastarrika Alemán, Ana Belén Alcaide Ocaña, Arantza Campo Ezquibela, Javier Zulueta Francés, Juan Pablo Torres Tajes

7.3K Session 528 08:30 - 10:30

Symposium: Antimicrobial host defence and innate immunity in the lung

Aims: to present the latest developments in the research on innate immunity and antimicrobial peptides, which are crucial players in the host defence against respiratory infections and chronic inflammatory lung diseases. Antimicrobial peptides are increasingly referred to as host defence peptides because they have direct antimicrobial activity, can modulate immune responses and function in wound repair. These peptides have been implicated in a variety of lung diseases, including asthma, chronic obstructive pulmonary disease (COPD) and cystic fibrosis.

Disease(s): Airway diseases, Respiratory infections

Method(s): Cell and molecular biology

Tag(s): Translational

Target audience: Clinical researcher, Pathologist, Scientist (basic, translational), Student, Adult pulmonologist/clinician

Chairs: Graham H. Bothamley (London, United Kingdom), Neeloffer Mookherjee (Winnipeg (MB), Canada)

08:30 Cationic host defence peptides as a novel treatment for respiratory viral infections
Donald J. Davidson (Edinburgh (Edinburgh), United Kingdom) 5167

09:00 Dysregulation of the expression and activity of antimicrobial peptides in COPD and cystic fibrosis
Gimano Amatngalim (Utrecht, Netherlands) 5168

09:30 Antimicrobial peptides, vitamin D and tuberculosis
Rubhana Raqib (Dhaka, Bangladesh) 5169

10:00 Role of interleukin-22 in the respiratory host defence against infections
Mustapha Si-Tahar (Tours, France) 5170

7.3Q Session 529 08:30 - 10:30

Oral presentation: Novel and established imaging studies and findings

Disease(s): Thoracic oncology, Airway diseases, Respiratory critical care, Sleep and breathing disorders, Respiratory infections, Respiratory infections

Method(s): Endoscopy and interventional pulmonology, Respiratory intensive care, Physiology, General respiratory patient care, Imaging, Epidemiology, Public health

Chairs: David Laszlo Tarnoki (Budapest, Hungary), Reinhard Kubale (Pirmasens, Germany)

OA5171 Late Breaking Abstract - Use of AI in accurate diagnosis of TB using Medical Imaging: a promising result from UAE
Bassam Mahboub (Dubai, United Arab Emirates), Hassan Hm Shurie, Fuduma Yalaxow Addow, Eltage Ibrahim Ibrahim, Mohaned Al Redha Al Redha, Mahmood Hachim, Rifat Hamoudi, Anjum Ahmed Ahmed

OA5172 Comparison of abilities of virtual bronchoscopic navigation (VBN) software products to reproduce peripheral branches in diagnosing peripheral lung lesions
Atsushi Kitamura (Tokyo, Japan), Kohei Okafuji, Ryosuke Imai, Hiroaki Kanemura, Kenji Ishii, Ryosuke Tsugitomi, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

OA5173 A novel imaging technique for bronchopulmonary dysplasia: functional respiratory imaging.
Kristien Vanhaverbeke (Wilrijk, Belgium), Monique Slaats, Mohammed Al-Nejar, Niek Everaars, Annelies Van Eyck, Benedicte De Winter, Kim Van Hoorenbeek, Jozef De Dooy, Ludo Mahieu, Jan De Backer, Wim Gos, Benjamin Mignot, Maarten Lanclus, Antonius Mulder, Stijn Verhulst

OA5175 Menstrual cycle-associated PFT changes correlate with QCT of the lung
Jessica C. Sieren (Iowa City, United States of America), Junfeng Guo, Archana Laroia, Eric A. Hoffman

OA5176 Bronchial and nonbronchial systemic artery embolization: Experience with 836 patients
Gamal Rabie Agmy (Assiut, Egypt), Yaser Gad, Sherif Mohamed, Hisham Imam, Moustafa Elshakawy

OA5177 Comparison of inhaled 19F C3F8 and hyperpolarized 129Xe lung ventilation MRI
Adam Mauder (Sheffield (South Yorkshire), United Kingdom), Paul J.C. Hughes, Graham Norquay, Fraser Robb, Madhweshra Rao, Jim Wild
A comparison of paraseptal to centrilobular emphysema using computed and micro-computed tomography

Naoya Tanabe (Kyoto, Japan), Dragos Vasilescu, Cameron Hague, Miranda Kirby, Harvey Coxson, Stijn Verleden, Bart Vanaudenaerde, James Hogg

Session 530 08:30 - 10:30

Oral presentation: Effect of environmental exposure on lung function outcomes

Disease(s): Airway diseases

Method(s): Epidemiology  Physiology  Public health

Chairs: Torben Sigsgaard (Århus, Denmark), Isabella Annesi Maesano (Paris, France)

OA5179 Late Breaking Abstract - Accelerated lung function decline in former and light smokers: NHLBI Pooled Cohorts Study

Elisabeth Oelsner (New York, United States of America), Pallavi Balte, Surya Bhatt, Patricia Cassano, David Couper, Aaron Folsom, David Jacobs, Amanda Matthew, Richard Kronmal, Laura Loehr, Stephanie London, Anne Newman, George O’Connor, Joseph Schwartz, Lewis Smith, Wendy White, Sachin Yende

OA5180 Poor prognosis in young and middle-aged adults with airflow limitation according to lower limit of normal but not fixed ratio: a population-based prospective cohort study

Yunus Çolak (Herlev, Denmark), Shoaib Afzal, Børge G. Nordestgaard, Jørgen Vestbo, Peter Lange

OA5181 Body mass index trajectories during adult life and lung function decline

Gabriela P. Peralta (Barcelona, Spain), Elaine Fuertes, Anne-Elie Cansin, Nicole Probst-Hensch, Alessandro Marcon, Dennis Nowak, André F. S. Amaral, Ane Johannessan, Christer Janson, Shyamali Dharmage, Thorarinn Gislason, Vanessa Garcia-Larsen, Michael J Abramsong, Torben Sigsgaard, Josep M Antó, Joost Weyler, Roberto Bonato, Mathias Holm, Peter Burney, Joachim Heinrich, Bertil Forsberg, Chantal Raherison-Semjen, Valerie Siroux, Benedecte Leynaert, Simone Accordini, Jesus Martinez-Moratalla, Jose-Luis Sanchez-Ramos, Deborah L. Jarvis, Judith Garcia-Aymerich

OA5182 Long-term air pollution exposure is associated with sick leave 20 years later

Ane Johannessan (Bergen, Norway), Ingrid Nordeide Kuiper, Simone Accordini, Randi Jacobson Bertelsen, Bertil Forsberg, Thorarinn Gislason, Joachim Heinrich, Mathias Holm, Rain Jögi, Jorunn Kirkeleit, Andrei Malinovschi, Alessandro Marcon, Iana Markevych, Anna Oudin, Vivi Schlüssen, Torben Sigsgaard, Cecile Svanes, Kjell Torén, Christer Janson

OA5183 Oral microbiome and lung health

Øistein Svanes (Kleppestø, Norway), Ane Johannessan, Shymal Peddada, Francisco Gomez Real, Cecile Svanes, Randi J. Bertelsen

OA5184 Early life exosompe and lung function in children from the HELIX cohort

Valerie Siroux (La Tronche, France), Lydiane Agier, Xavier Basagaña, Jose Urquiza, Jordi Sunyer, Maribel Casas, Oliver Robinson, Bertil Granum, Bente Ofedal, Cathrine Thomsen, Montserrat De Castro, Mark Nieuwenhuijsen, John Wright, Rosemary McEachan, Philippa Bird, Noortje Uphoff, Regina Grazuleviciene, Sandra Andrusaityte, Inga Petraviciene, Theano Roumeliotaki, Vasiliki Leventakou, Leda Chatzi, Martine Vrijheid, Remy Slama

OA5185 Lung health in adulthood after childhood exposure to air pollution and greenness

Ingrid Nordeide Kuiper (Bergen, Norway), Cecile Svanes, Michael J. Abramson, Bryndis Benediktsdottir, Randi J. Bertelsen, Martine Dennekamp, Bertil Forsberg, Thorarinn Gislason, Thomas Halvorsen, Joachim Heinrich, Mathias Holm, Christer Janson, Rain Jögi, Andrei Malinovschi, Alessandro Marcon, Iana Markevych, Jesus M. Moratalla, Anna Oudin, John L. Pearce, Vivi Schlüssen, Antonio P. Vega, Ane Johannessan

OA5186 Chronic exposure to black carbon particles and traffic-related particulate matter (PM) specifically from traffic are associated with reduced lung-function in a general population

Anna-Carin Olin (Göteborg, Sweden), Hanne Krage Carlsen, Fredrik Nyberg, David Segersson

Session 531 08:30 - 10:30

Oral presentation: Physiotherapy care for patients with acute and chronic respiratory conditions

Disease(s): Airway diseases  Thoracic oncology

Method(s): Surgery  General respiratory patient care

Chairs: Chris Burtin (Diepenbeek, Belgium), Deniz Inal-Ince (Ankara, Turkey)

OA5187 Impact of frailty during hospitalized exacerbations of COPD on 90-day readmissions - preliminary data.

Christian Osadnik (Melbourne, Australia), Alethea Kavanagh, Martin Macdonald, Anne Tran, Philip Bardin, Terrence Haines

OA5188 Home-based rehabilitation in inoperable lung cancer: a randomised controlled trial

Lara Edbrooke (Melbourne (VIC), Australia), Sanchia Aranda, Catherine Granger, Christine Mc Donald, Mei Krishnasamy, Linda Mileshkin, Ross Clark, Ian Gordon, Louis Irving, Linda Denehy
**Session 532**  
08:30 - 10:30

**Oral presentation: Latest advances in pulmonary rehabilitation assessment and content**

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections  
**Method(s):** General respiratory patient care

**Chairs:** William Man (Harefield, United Kingdom), Ioannis Vogiatzis (Newcastle upon Tyne (Tyne and Wear), United Kingdom)

**OA5194**  
**Late Breaking Abstract - A cluster-randomized trial of a nurse-led advance care planning session in patients with COPD and their loved ones**  
Carmen Houben (Horn, Netherlands), Carmen Houben (Horn, Netherlands), Martijn Spruit, Hans Luyten, Herman-Jan Pennings, Vivian Van Den Boogaart, Jacques Cremers, Geertjan Wesseling, Emiel Wouters, Daisy Janssen

**OA5195**  
**Randomised controlled trial of pulmonary rehabilitation including cognitive behavioural therapy for breathlessness.**  
Marie Williams (Adelaide (SA), Australia), Catherine Paquet, Paul Cafarella, Peter Frith

**OA5196**  
**High flow nasal cannula improves exercise capacity in COPD patients; crossover trial**  
Maria Florencia Castellano Barneche (Buenos Aires, Argentina), Silvina Dell’Era, Nicolás Roux, Elena Gimeno Santos, Sergio Terrasa, Ilona Bykhovsky, Guadalupe Gracia, Maria Carolina Balestrieri, Alejandro Midley

**OA5197**  
**Change in V̇O₂peak in response to aerobic training in patients with COPD: A meta-analysis.**  
Tom Ward (Market Harborough (Leicestershire), United Kingdom), Tom Ward (North Shields (Tyne and Wear), United Kingdom), Amy Jones, Ruth Trethewey, Pip Divall, Sally Singh, Tom Dolmage, Martin Lindley, Michael Steiner, Rachael Evans

**OA5198**  
**Comparison of exercise responses in COPD patients with and without Alpha-1 antitrypsin deficiency**  
Inga Jarosch (Schönau am Königssee, Germany), Wolfgang Hitzl, Andreas Rembert Koczulla, Marion Wencker, Tobias Welte, Rainer Gloeckl, Sabina Janciauskiene, Klaus Kenn

**OA5199**  
**Minimal clinically important difference in 30 second sit-to-stand test after pulmonary rehabilitation in patients with COPD**  
Ernesto Crisafulli (Modena (MO), Italy), Andrea Zanini, Michele D’Andria, Cristina Gregorini, Francesca Cherubino, Elisabetta Zampogna, Andrea Azzola, Antonio Spanevello, Alfredo Chetta

**OA5200**  
**Responsiveness of a short stair climb power test to pulmonary rehabilitation in COPD**  
Sarah Jones (Berkshire, United Kingdom), Matthew Maddocks, Claire Nolan, Suhani Patel, Ruth Barker, Samantha Kon, Nicholas Hopkinson, William Man

**OA5201**  
**Variability in access and referral to pulmonary rehabilitation in European bronchiectasis patients enrolled in the EMBARÇ registry**  
Paul Walker (Wirral (Merseyside), United Kingdom), B Herrero, A Spinou, K Dimakou, F Blasi, F Ringshausen, A De Soya, M Vendrell, P C Goeminne, W Boersma, C Haworth, M Murris, A T Hill, M R Loebinger, R Menendez, A Torres, T Welte, R Wilson, J S Elborn, S Aliberti, J D Chalmers, E Polverino

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**Session 533**  
08:30 - 10:30

**Poster discussion: Sarcoidosis: from basic research to patient outcomes**
### Disease(s):
- Thoracic oncology
- Respiratory infections
- Interstitial lung diseases
- Airway diseases
- Respiratory infections

### Method(s):
- Public health
- Surgery
- Endoscopy and interventional pulmonology
- Cell and molecular biology
- General respiratory patient care
- Imaging
- Epidemiology

### Chairs:
- Paolo Spagnolo (Padova (PD), Italy), Jan C. Grutters (Nieuwegein, Netherlands)

### PA5202
**Microbiological study of mediastinal lymph node biopsy from patients with sarcoidosis and lung cancer**
Saher Burhan Shaker (Rødovre, Denmark), Amal Durakovic, Kurt Fuursted, Klaus Richter Larsen, Matiullah Naqibullah

### PA5203
**ETS-1 mRNA and its association with T-BET and Th1 cytokine expression in active pulmonary sarcoidosis.**
Puja Sohal (New Delhi (Delhi), India), Hina Aggarwal, Karan Madan, Vijay Hadda, Kalpana Luthra, Anant Mohan, Dipendra Kumar Mitra, Randeep Guleria

### PA5204
**Flow cytometric analysis of lymphocyte profiles in mediastinal lymph nodes**
ken akao (Toyoake, Japan), Takuya Okamura, Tomoyuki Minezawa, Kumiko Yamatsawa, Yasuhiro Goto, Sumito Isogai, Masashi Kondo, Kazuyoshi Imaiuzumi

### PA5205
**Mononuclear phagocytes in lungs, lymph nodes and blood of sarcoidosis patients**
Rico Lezpjen (Stockholm, Sweden), Gregory Rankin, Jamshid Pourazar, Ala Muala, Anders Eklund, Johan Grunewald, Anders Blomberg, Anna Smed Sörensen

### PA5206
**Placebo-controlled randomised trial of dexamethasone for quality of life in pulmonary sarcoidosis**
Roeland Vis (Utrecht, Netherlands), E.M.W. Van De Garde, I.H.E. Korenromp, J.C. Grutters

### PA5207
**Combination of endoscopic techniques - number of lymph nodes stations biopsies and application of cell blocks in the sarcoidosis diagnosis.**
Lukasz Kasper (Kraków, Poland), Anna Andrychiewicz, Marta Kasper, Romana Tomaszewska, Jerzy Soja, Krzysztof Sladek

### PA5208
**The pulmonary microbiome in sarcoidosis is similar to other parenchymal lung diseases**
Andre Becker (Homburg, Germany), Giovanna Vella, Christian Herr, Andreas Keller, Cedric Laczny, Christoph Beisswenger, Robert Bals

### PA5209
**Advanced pulmonary sarcoidosis: long-term follow-up of 10 years or more.**
Olga P. Baranova (St. Petersburg, Russian Federation), Mikhail Ilkovich, Alexandra Speranskaya, Vitalii Perle

### PA5210
**Mixed ventilatory defects in pulmonary sarcoidosis: prevalence and prognosis**
Vasileios Kouranos (London, United Kingdom), Simon Ward, Maria Kokosi, Suzie Thomas, Diego Castillo, Eoin Judge, Frans Van Tonder, Armand Devaraj, Toby Maher, Elisabeta Renzoni, Athol Wells

### PA5211
**The clinical value of vascular endothelial growth factor (VEGF) in the development of lung sarcoidosis.**
Liubov Ponomareva (Moscow, Russian Federation), Elena Popova, Andrey Ponomarev

### PA5212
**Differential Expression of Plasma Metabolites in Patients with Pulmonary Sarcoidosis is Associated with Clinical Behavior**
Daniel Kass (Pittsburgh, United States of America), Stephen Strock, Mehdi Nouraie, Jared Chiarchiaro, Kristen Veraldi, Yingze Zhang, Kevin Gibson

### PA5213
**Optical coherence tomography (OCT) in the diagnosis of sarcoidosis of lung and other organs**
Eugene Sabadash (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Sergey Skornyakov, Igor Medvinskiy, Evgeniy Egorov, Elena Filatova, Maria Peretrukhina, Maria Chernenko, Elena Ivanchikova, Ilia Diachkov

### PA5214
**The clinical value of vascular endothelial growth factor (VEGF) in the development of lung sarcoidosis.**
Liubov Ponomareva (Moscow, Russian Federation), Elena Popova, Andrey Ponomarev

### PA5215
**Cardiac sarcoidosis: worse pulmonary function due to left ventricular ejection fraction? A case-control study.**
Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros, Elzbieta Wiatr, Jacek Zych, Anna Kempisty, Marek Kram, Dorota Piotrowska-Kownacka, Stefan Wesolowski, Robert Baughman, Kazimierz Roszkowski-Sli

### PA5216
**Differential expression of ubiquitin and PU.1 in granulomatous lesions of tuberculosis and sarcoidosis**
Jong Wook Shin (Seoul, Republic of Korea), Byoung Whui Choi, In Won Park
Sarcoidosis treatment and outcomes: what is most important to patients?
Jeanette Boyd (Sheffield (South Yorkshire), United Kingdom), Robert P. Baughman, Dominique Valeyre, Ana Rosa Alvarez Rodriguez, Linda Charvoz, Hanns-Peter Faber, Chris Knoet, Filippo Martone, Dorrit Irène Novel, Bernd Quadder, Jack Richardson, Ginger Spitzer, Gianluca Ziosi, Johanna Hochreiter

Terminal 7  Session 534  08:30 - 10:30

Oral presentation: Innovative tobacco cessation approaches and trends in tobacco and e-cigarette use

Disease(s) : Airway diseases
Method(s) : Epidemiology  Public health
Chairs : Sofia Belo Ravara (Covilhã, Portugal), Linnea Hedman (Luleå, Sweden)

OA5220  Late Breaking Abstract - E-cigarette use among Swedish teenagers
Linnea Hedman (Luleå, Sweden), Helena Backman, Caroline Stridsman, Martin Andersson, Anne Lindberg, Eva Rönmark

OA5221  The use of electronic cigarette by ex-smokers is associated with a poor perceived health status in the population-based Constances cohort
Emeline Lequy (Paris, France), Emmanuel Wiernik, Iris Hourani, Diane Cyr, Rachel Nadif, Cédric Lemogne, Marcel Goldberg, Marie Zins, Guillaume Airagnes

OA5222  Exposure of electronic cigarettes in Russia: results from Russian tobacco control policy evaluation study
Marina Gambaryan (Moscow, Russian Federation), Marina Popovich, Anna Kalinina, Michail Starovoytov, Sergey Boytsov, Oxana Drapkina

OA5223  Prevalence and correlates of cigarillo use in European Union member states
Filippos T. Filipidis (London, United Kingdom), Enkeleint-Aggelos Mechili, Charis Girvalaki, Constantine Vardavas

OA5224  Reduced smoking last ten years was driven by young women smoking less
Emma Goksör (Molnlycke, Sweden), Göran Wennergren, Styliana Vasileiadou, Roxana Mincheva, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

OA5225  WHO-ERS project on smoking cessation in primary care in countries with high prevalence of tobacco use. First year experience
Paraskevi Katsaounou (Athens, Greece), Christina Gratziou, Carlos Jimenez Ruiz, Marine Faure, Brian Ward, Sofia Ravara, Vinayak Mohan Prasad, Kristina Mauer-Stender, Jagdish Kaur, Angela Ciobanu, Syed Mahfuzul Huq, Dongbo Fu

OA5226  Financial incentives combined with a smoking cessation group training programme increase abstinence rates in employees: a cluster randomized trial
Onno C. P. van Schayck (Maastricht, Netherlands), Floor A. Van Den Brand, Gera E. Nagelhout, Bjorn Winkens, Niels H. Chavannes

OA5227  A 12 month smoking cessation outcome-Allen Carr’s Easyway to Stop Smoking-a randomised clinical trial
Sheila Keogan (Dublin 8, Ireland), Shasha Li, Luke Clancy

7.2A  Session 535  08:30 - 10:30

Poster discussion: What is new in idiopathic interstitial pneumonias?

Disease(s) : Interstitial lung diseases  Respiratory critical care  Airway diseases
Method(s) : Respiratory intensive care  Endoscopy and interventional pulmonology  Epidemiology  Physiology  General respiratory patient care  Imaging
Chairs : Michael Kreuter (Heidelberg, Germany), Argyris Tzouvelekis (Athens, Greece)

PA5228  Late Breaking Abstract - Phase 1, first-in-human study of OATD-01, a dual chitinase inhibitor for the treatment of respiratory diseases
Stanislaw Pikuł (Warszawa, Poland), Joanna Lipner, Michael Lissy, Barbara Dymek, Karolina Dzwonek, Paweł Dobrzański, Magdalena Kania, Adam Golebiowski

PA5229  Usefulness of surgical lung biopsies after cryobiopsies when pathological results are unspecific or show a pattern suggestive of a nonspecific interstitial pneumonia
Benjamin Bondue (Bruxelles, Belgium), Thierry Pieters, Antoine Froidure, Vincent Heinen, Patrick Alexander, Delphine Hoton, Florence Dome, Myriam Remmelink, Dimitri Leduc

PA5230  Long-term nintedanib treatment in idiopathic pulmonary fibrosis (IPF): final data from INPULSIS-ON
Bruno Crestani (Paris, France), Manuel Quresma, Mitchell Kaye, Takashi Ogura, Wilke Stansen, Susanne Stowasser, Michael Kreuter
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<th>Proof of concept of a non-invasive screening tool to detect idiopathic pulmonary fibrosis (IPF) in an early stage</th>
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<td>Jan De Backer (Kontich, Belgium), Cedric Van Holsbeke, Wim Vos, Dennis Belmans, Glenn Leemans, Wilfried De Backer</td>
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<td>PA5232</td>
<td>Feasibility of a homemonitoring program including real-time wireless home spirometry in idiopathic pulmonary fibrosis</td>
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<td>PA5234</td>
<td>Dehydroepiandrosterone sulfate plasma levels correlate with lung function, muscle mass and physical performance in fibrotic interstitial lung disease</td>
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<td>Sabina Guler (Ried-Brig, Switzerland), Seo Am Hur, Scott Lear, Pat Camp, Pearce Wilcox, Janice Leung, Christopher Ryerson</td>
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<td>Diagnostic value of BAL lymphocytosis in patients with suspected IPF and indeterminate HRCT pattern</td>
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<td>Vasiliis Tzilas (Athens, Greece), Argyris Tzouvelekis, Evangelo Bouros, Maria Ntasiou, Anna Kefalaki, Anna Tsonou, Demosthenes Bouros</td>
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<td>PA5236</td>
<td>Cognitive impairment and depression in patients with Idiopathic Pulmonary Fibrosis</td>
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<td>Radwa Elhefny (Cairo, Egypt), Assem Elessawy, Hala Shaheen, Asmaa Mohamed</td>
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<td>Survival after respiratory hospitalization in patients with idiopathic chronic fibrosing interstitial pneumonia</td>
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<td>Osamu Nishiyama (Osaka, Japan), Ryo Yamazaki, Sho Saeki, Hiroyuki Sako, Takashi Iwanaga, Yuji Higashimoto, Hiroaki Kume, Yuji Tohda</td>
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<td>PA5239</td>
<td>Effect of pamrevlumab on the UCSD-SOBQ (University of California San Diego–Shortness of Breath Questionnaire) in patients with Idiopathic Pulmonary Fibrosis (IPF)</td>
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<td>Eduard Gorina (Belmont, United States of America), Tro Sekayan, Jeff Swigris, Peter Lacamera, Rafael Perez, Mark Hamblin, Joao Deandrade, John Fitzgerald, Peter Bercz, Ming Zhong, Elias Kouchakji, Peony Yu, Thomas Neff</td>
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<td>PA5240</td>
<td>Clinical impact of an interstitial lung disease Nurse on patients with idiopathic pulmonary fibrosis</td>
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<td>Sharina Aldhaheri (Kingston, Canada), Onofre Moran-Mendoza, Lynda McCarthy</td>
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<td>PA5241</td>
<td>Safety in treating dyspnea with morphine in ILD patients</td>
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<td>Sissel Kronborg-White (Lystrup, Denmark), Charlotte Uggerhøj Andersen, Ole Hilberg, Elisabeth Bendstrup</td>
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<td>PA5242</td>
<td>Visual and fully-automated CT analysis in acute exacerbations of idiopathic pulmonary fibrosis (IPF)</td>
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<td>Lars Kehler (Heidelberg, Germany), Tobias Norajitra, Julia Ley-Zaporozhan, Athanasios Giannakis, Roman Rubtsov, Claudia Bauer-Kemeny, Klaus Maier-Hein, Claus-Peter Heussel, Michael Kreuter</td>
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<td>PA5243</td>
<td>Assessment of survival in patients with idiopathic pulmonary fibrosis (IPF) using quantitative HRCT indexes</td>
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<td>Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Stefano Palmucci, Roberta Rossò, Matteo Schisano, Mauro Pavone, Ada Vancheri, Gianluca Sambataro, Claudia Crimi, Alessandro Stefano, Giorgio Russo, Carlo Vancheri</td>
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<td>PA5244</td>
<td>Frailty is an independent predictor of number and length of hospitalizations in patients with fibrotic ILD</td>
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<td>Sabina Guler (Ried-Brig, Switzerland), Joanne Kwan, Pearce Wilcox, Christopher Ryerson</td>
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<td>PA5245</td>
<td>Risk Factors for Mortality in Patients with Idiopathic Pulmonary Fibrosis Followed at Intensive Care Unit due to Acute Respiratory Failure</td>
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<td>Burcu Uysaler (izmir, Turkey), Pervin Korkmaz Ekren, Feza Bacakoglu, Nesrin Mogulkoc Bishop</td>
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**7.2B**

**Session 536**

**08:30 - 10:30**

**Poster discussion: Preclinical pharmacology: novel targets in airway inflammation, narrowing and neural control**

**Disease(s):** Airway diseases, Respiratory critical care, Interstitial lung diseases, Pulmonary vascular diseases

**Method(s):** Respiratory intensive care, Physiology, Cell and molecular biology

**Chairs:** Leif Bjermer (Lund, Sweden), Sara Jane Bonvini (London, United Kingdom)
PA5246 Andrographolide inhibits the activation of NLRP3 inflammasome in patients with COPD
Wei Xiao (Chengdu, China), Wei Xiao, Juan-Juan Fu, Sheng-Jun Wang, Yan Wang, Ti-Wei Miao, Bing Mao

PA5247 PUR1800 (RV1162), a novel narrow spectrum kinase inhibitor, but not Fluticasone, reduces TNFα-induced cytokine release by primary bronchial epithelial cells from healthy volunteers and COPD patients
Aidan Curran (Lexington, United States of America), Catherine Charron, Paul Russell, David Hava

PA5248 AZD1402/PRS-060, an inhaled Anticalin® IL-4Ra antagonist, potently inhibits IL-4 induced functional effects in human whole blood, which can be employed translationally in clinical studies.
Katerina Pardali (Möln达尔, Sweden), Fanyi Jiang, Mary Fitzgerald, Gabriele Matschiner, David Keeling

PA5249 The effects of fatty acid amide hydrolase and monoacylglycerol lipase inhibitors in lipopolysaccharide-induced airway inflammation and tracheal hyperreactivity in mice
Turgut Emrah Bozkurt (Ankara, Turkey), Reshed Abohalaka, Sevgen Celik Onder, Inci Sahin-Erdemli

PA5250 Effects of Nintedanib on the M1 and M2a polarization of human macrophages
Nessrine Bellamri (Rennes, France), Claudie Morzadec, Valérie Lecureur, Audrey Joannes, Lutz Wollin, Stéphane Jouneau, Laurent VERNHET

PA5251 Selective activation and targeting of autophagy in severe asthma.
Pawan Sharma (Sydney (NSW), Australia), Kielan Mcalinden, Anudeep Kota, Brian Oliver, Mehrad Haghi

PA5252 Effect of phosphodiesterase-4 inhibitor on the inflammation, oxidative damage and apoptosis in a saline lavage-induced model of acute lung injury
Petra Kosutova (Martin, Slovakia), Pavol Mikolka, Maros Kolomaznik, Sonia Balentova, Andrea Calkovska, Daniela Mokra

PA5253 Mechanisms leading to the bronchoprotective effects of N-Acetylcysteine in human bronchi stimulated by lipopolysaccharide
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Francesco Facciolo, Barbara Rinaldi, Mario Cazzola, Maria Gabriella Matera

PA5254 Differential anti-inflammatory effects of budesonide and a p38 MAPK inhibitor AZD7624 on COPD pulmonary cells
Andrew Higham (Manchester (Greater Manchester), United Kingdom), Pradeep Karur, Natalie Jackson, Danen Cunoosamy, Paul Jansson, Dave Singh

PA5255 Clinically validated markers of the extracellular matrix remodelling are altered by potential anti-fibrotic compounds in a human lung fibrosis ex vivo model
Diana Julie Leeming (Herlev, Denmark), Jannie M.B Sand, Christina Hesse, Sebastian Konzok, Katherina Sewald, Sarah Rønnow, Armin Braun, Morten A Karsdal, Sarah Brockbank, Simon Cruwys

PA5256 Smooth-muscle-derived WNT-5A drives allergen-induced remodelling and Th2 type inflammation
Remoud Gosens (Groningen, Netherlands), Tim Koopmans, Laura Hesse, Martijn Nuijten, Mark Menzen, Ron Smits, Elvira Bakker, Judith Vonk, Maarten Van Den Berge, Gerard Koppelman, Victor Guryev

PA5257 Intrinsinc tone in human airway smooth muscle increases subsequent contractile response
Alvenia Cairncross (Perth (WA), Australia), Farid Sanai, Brent Mcparland, Gregory King, Peter Mcfawn, John Elliot, Alan James, Peter Noble

PA5258 LPS and TNFa differentially increase intrapulmonary airway and artery contraction in mouse precision cut lung slices
Emma Lamanna (Clayton, Australia), Claudia Nold, Jane Bourke

PA5259 Free fatty acid receptors, FFA1 and FFA4, are novel bronchodilator targets in mouse and human precision-cut lung slices
Jane Bourke (Clayton (VIC), Australia), Ralph Angeles, Chantal Donovan, Maggie Lam, Jackie Micallef, Bharat Shimpukade, Trond Ulven, Simon Royce

PA5260 Comparative activity of ilmetropium iodide and other anticholinergic drugs.
Tatiana Molostova (Moscow, Russian Federation), Alexander Chuchalin, Yuri Kalinin, Sofia Skachilova, Oksana Proskurina

PA5261 The anti-tussive effects of an inhaled LABA are maintained after chronic treatment
Michael A. Wortley (London, United Kingdom), Sara J. Bonvini, Pauline L.M. Flajolet, Maria G. Belvisi, Mark A. Birrell

PA5262 Allergen-induced BDNF expression and neuronal remodelling contributes to airway hyperresponsiveness
Loes E. M. Kistemaker (Groningen, Netherlands), Susan Nijboer, Anne P De Groot, Eva VohlíDalová, I Sophie T Bos, Y.S. Prakash, Reindouf Gosens

PA5263 Characterisation of TRPA1 activation on sensory nerves
Xue Chen (London, United Kingdom), Sara J. Bonvini, Eric Dubuis, Mark A. Birrell, Maria G. Belvisi
Poster discussion: Tuberculosis transmission and screening strategies

**Disease(s):** Respiratory infections

**Method(s):** Cell and molecular biology  Public health  Epidemiology  General respiratory patient care

**Chairs:** Delia Goletti (Roma (RM), Italy), Alberto Matteelli (Brescia (BS), Italy)

**PA5264**
Associated factors to tuberculosis transmission.
Juan Rodríguez López (Oviedo (Asturias), Spain), Jose María García García, Teresa Rodrigo, Juan Ruiz-Manzano, Marti Casals, Joan Caylà, Programa I Investigacion Grupo De Tuberculosis-Separ

**PA5265**
Introduction of a Latent TB infection (LTBI) screening programme detects cases of active tuberculosis and hepatitis B and C
Jennifer Yung (London, United Kingdom), Jennifer Yung, Grace Isbister, Thomas Mason, Stella Abiona, Martino Dall’Antonia, Moerida Belton

**PA5266**
Epidemiological features of nosocomial tuberculosis in patients with pulmonary tuberculosis in TB hospital
Nelia Vasileva (St. Petersburg, Russian Federation), Anna Vyazovaya, Igor Vasilev, Natalia Solovieva, Vyacheslav Zhuravlev, Olga Narvskaya, Ludmila Zueva

**PA5267**
Diagnostic delay in tuberculosis in Yorkshire & Humber, UK: 2013-16 data
Stefanie Gissing (Leeds (West Yorkshire), United Kingdom), Renu Bindra

**PA5268**
Implementation of FAST strategy in the National Center for Tuberculosis and Lung Diseases (NCTLD) in Georgia
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Rusudan Aspindzelashvili, Nino Lomtadze

**PA5269**
Tuberculosis contact investigation – 5-year experience of a Portuguese ambulatory center
Daniel Gonçalo Pereira Duarte (Lisboa, Portugal), Rodrigo Farinha, João Eusébio, Paula Raimundo, Natália André, António Domingos

**PA5270**
Performance of QuantiFERON TB PLUS® (QTF-PLUS) In the detection of latent tuberculosis infection in relation to QTF TB GOLD IN TUBE (QTF), TSPOT.TB and Tuberculin Skin Test (TST). A two year prospective study.
Miguel Arias Guillen (Oviedo (Asturias), Spain), Maria Teresa Gonzalez-Budino, Marta Maria Garcia-Clemente, Sabino Riestra-Menendez, Ruben Queiro, Juan Jose Palacios-Gutierrez, Susana Martinez-Gonzalez, Miguel Santibanez, Tamara Hermida-Valverde, Carmen Osoro-Suarez, Jose Andres Lorenzo, Ariel Moreda, Ines Ruiz-Alvarez, Julia Herrera-Puertas, Andres Ortiz, Maria Folgueras-Gomez, Pere Casan-Clarà

**PA5271**
Evaluation of IP-10 in IGRA for LTBI diagnosis
Linda Petrone (Roma (RM), Italy), Elisa Petruccioli, Valentina Vanini, Teresa Chiachio, Gilda Cuzzi, Fabrizio Palmieri, Giuseppe Ippolito, Delia Goletti

**PA5272**
Modulation of whole-blood IGRA response in patients with latent TB infection during treatment
Elisa Petruccioli (Roma (RM, Italy), Teresa Chiachio, Valentina Vanini, Gilda Cuzzi, Fabrizio Palmieri, Luigi Ruffo Codecasa, Paola Castellotti, Giuseppe Ippolito, Delia Goletti

**PA5273**
Discordance between tuberculin skin tests (TST) and interferon gamma release assays (IGRAs): Are we over-treating LTBI?
Rodric V Francis (Nottingham, United Kingdom), Amanda Goodwin, Vidya Navaratnam, Lois Dexter, Anna L Rich

**PA5274**
Immune reactive profiling in subjects at risk of latent tuberculosis infection with TST(+)IGRA(-) results.
Patricio Escalante (Rochester, United States of America), Tobias Peikert, Virginia P. Van Keulen, Courtney L. Erskine, Andrew H. Limper

**PA5275**
Recombinant Tuberculosis Allergen in Detecting Latent Tuberculosis Infection in Adults
Tatiana Ivanovna Morozova (Saratov (Saratov Oblast), Russian Federation), Olga Otpuschennykova

**PA5276**
Results of retrospective-prospective comparison study of different immunologic tests in diagnosis of tuberculosis infection
Anna Starshinova (St. Petersburg, Russian Federation), Vyacheslav Zhuravlev, Irina Dovgaluk, Alexander Panteleev, Ulia Zinchenko, Evgenia Istomina, Maria Pavlova, Piotr Yablonskiy

**PA5277**
Accuracy of whole blood IGRA in TB subjects with rheumatic disease.
Teresa Chiachio (Roma (RM), Italy), Elisa Petruccioli, Valentina Vanini, Gilda Cuzzi, Fabrizio Palmieri, Giuseppe Ippolito, Delia Goletti

**PA5278**
Comparison of LTBI screening strategies before TNF inhibitor treatment in inflammatory arthritis
Young Ju Jung (Seoul, Republic of Korea), Dae Hyun Jeong, Jieun Kang, Bin Yoo, Chang-Kewn Lee, Yong-Gil Kim, Seokchan Hong, Tae Sun Shim, Kyung-Wook Jo
Should we treat every patient with latent TB? Is there a cost to pay?
Usman Maqsood (Walsall, United Kingdom), Muhammad Ganaie, James Redfern, Mohammed Munavvar

Conversion of tuberculosis screening tests during biological therapy in patients with rheumatic diseases: what’s beyond screening values?
Victoria Sadovici-Bobeta (Chisinau, Republic of Moldova), Virginia Salaru, Lucia Mazur-Nicorici, Maria Garabajiu, Tatiana Rotaru, Minodora Mazur

Molecular Epidemiology of Tuberculosis (TB) Patients Attending to Ege University Faculty of Medicine
Imren Nesil (Izmir, Turkey), Mustafa Hikmet Ozhan, Cengiz Cavusoglu

Poster discussion: The importance of the pulmonary function test in different clinical settings

**Disease(s):**
- Airway diseases
- Respiratory infections
- Interstitial lung diseases
- Respiratory critical care
- Respiratory infections
- Pulmonary vascular diseases

**Method(s):**
- Epidemiology
- Transplantation
- Surgery
- General respiratory patient care
- Physiology

**Chairs:** Nikolaos Tzanakis (Heraklion (Crete), Greece), Maurizio Marvisi (Cremona (CR), Italy)

Study of lung functions (LF) in patients with Human Immunodeficiency Virus (HIV) infection
Thi ha (Yangon, Myanmar), Aung Kyaw Soe, Ye Ye Naing

Forced oscillometry for early detection of bronchiolitis obliterans (BO) following hematogenous stem cell transplant (HSCT)
Qian Huang (Toronto (ON), Canada), Qian Huang, Elizabeth Cho, Tong Xu, Lauren Day, Henry Furlott, Clodagh Ryan, Jeff Lipton, Chung-Wai Chow

Late Breaking Abstract - Hypoxic Challenge Testing: Practice Experience In Tallaght HospitalDublin."Time to improve training for hypoxic pulmonary challenge test"
Amel Alameeri (Dublin, Ireland)

Effect of positional changes on lung diffusing capacity in heart failure
Caitlin Fermoyle (Rochester, United States of America), Steven Chase, Glenn Stewart, Bruce Johnson

Relationship between abnormal preoperative spirometry, postoperative mortality and pulmonary complications in non-thoracic surgery
Catarina Marques (Gondomar, Portugal), Daniela Machado, Inês Ladeira, Ricardo Lima, Joana Gomes, Miguel Guimarães

Effect of Gender and Abdominal Obesity on Airway Mechanics
Anjana Talwar (Noida (Uttar Pradesh), India), Anjali Trivedi, Meghashree Sampath, Geetanjali Bade

Prediction of obstructive lung function and the risk of complications in morbidly obese patients undergoing bariatric surgery
Harman Singh (Rotterdam, Netherlands), Yasemin Türk, Astrid Van Huisstede, Erwin Birnie, Ulas Biter, Pieter Hiemstra, Gert-Jan Braunstahl

Physical activity and incidence of restrictive spirometry pattern in adults.
Anne-Elie Carsin (Barcelona, Spain), Dirk Keidel, Elaine Fuertes, Medea Imboden , Joost Weyler , Dennis Nowak , Joachim Heinrich, Isabel Urrutia , Jose Martinez-Moratalia , S Caviezels , A Beckmeyer-Borowko , Chantal Raherison , Isabelle Pin , Pascal Demoly , Bénédicte Leynaert , I Cerveri , Roberto Bono , Simone Accordini , A Amaral , Thorarig Gislason , Cecilia Svanes, K Toren , Bertil Forsberg, Christer Janson, S Dharmage, Rain Jogi, Jm Anto, Nicole Probst-Hensch, Judith Garcia-Aymerich

Artificial intelligence improves experts in reading pulmonary function tests

Interest to practice a peak expiratory flow in the cough DET in prone position at the patient affected by neuromuscular disease.
Leila Laouar (Alger, Algeria), Sonia Nouioua, Mohamed Islam Kediha, Lamia Ali Pacha, Meriem Tazir, Samya Taright

The frequent exacerbator phenotype in bronchiectasis: predictors and particularities
Ahmed Ben Saad (Monastir, Tunisia), Saousen Cheikh Mhamed, Ghassen Trigui, Nersrine Fahem, Asma Migauou, Samah Joobeir, Naceur Rouatbi
Impulse oscillometry differentiates the lungs of elderly with and without metabolic syndrome: a functional and immunological approach

Maysa Rangel (Sao Jose Dos Campos (SP), Brazil), Tamara Costa-Guimarães, Giovana Gabriela-Pereira, Alana Santos-Dias, Manoel Carneiro Oliveira-Junior, André Luis Lacerda Bachi, Amanda Cristina Araújo-Rosa, Claudio Ricardo Frison, Sérgio Roberto Nacif, Rodolfo Paula Vieira

Association of height growth in puberty with maximally attained lung function

Osama Mahmoud (Bristol (Avon), United Kingdom), Raquel Granell, Kate Tilling, Cosetta Minelli, Judith Garcia-Aymerich, John Holloway, Adnan Custovic, Deborah Jarvis, Jonathan Sterne, John Henderson

Risk factors for acute exacerbation of interstitial pneumonia after surgery with general anesthesia

Keisuke Hosoki (Tokyo, Japan), Yu Mikami, Kunihiko Soma, Toshihiko Sakatani, Yukiko Sakamoto, Hirokazu Urushiyama, Takahide Nagase, Taisuke Jo

Is preoperative pulmonary evaluation necessary in renal transplant patients?

Nilay Orak Akbay (Istanbul, Turkey), Fatih Gokhan Akbay, Suheyla Apaydin, Volkan Tugcu

Updated prevalence and risk factors for bronchiolitis obliterans syndrome after allogeneic stem cell transplantation.

Jhanavi Rangaswamy (Melbourne (VIC), Australia), Sharon Avery, Brigitte Borg, Catherine Martin, Eli Dabscheck

7.3J Session 539 08:30 - 10:30

Poster discussion: The airway microbiome across the spectrum of airway disease

Disease(s): Airway diseases, Respiratory infections, Respiratory critical care, Respiratory infections

Method(s): Public health, Cell and molecular biology, General respiratory patient care, Respiratory intensive care

Chairs: Maria Rosa Faner Canet (Barcelona, Spain), Eleni Papakonstantinou (Thessaloniki, Greece)

Influence of bacteria from the COPD lung microbiome on cigarette smoke-induced pro-inflammatory responses of three-dimensional lung epithelial cell cultures

qi ni (Ghent, Belgium), Charlotte Rigauts, Lisa Ostyn, Eva Vandeplasse, Guy Brusselle, Tom Coenye, Ken Bracke, Aurélie Crabbé

Non-typeable Haemophilus influenzae infection of ciliated epithelium from healthy and chronic obstructive pulmonary disease donors

Alina Maria Petris (London, United Kingdom), Simona A. Velkova, Dani D.H. Lee, Soren Beinke, Richard A. Williamson, Nikolai N. Belyaev, Edith M. Hessel, Dale Moulding, Timothy D. Mechugh, Primrose Freestone, Claire M. Smith, Christopher O'Callaghan

Volatile organic compound (VOC) analysis to differentiate between bacterial and viral respiratory infections in COPD

Faisal Kamal (London, United Kingdom), Sacheen Kumar, Aran Singanayagam, Michael Edwards, Andrea Romano, Kirrill Vesikov, Ivan Laponogov, Gavin Donaldson, Sebastian Johnston, Jadiwag Wedzicha, George B Hanna

Utility of CAT questionnaire in the diagnosis of bacterial colonization in Bronchiectasis

ANNA FELIU (BARCELONA, Spain), Ana Rodrigo-Troyano, Lidia Perea, Jordi Giner, Diego Castillo, Ferran Sánchez-Reus, David De La Rosa, Miguel Ángel Martínez-Garcia, Oriol Sibila Vidal

Longitudinal profiling of viral infections in COPD patients and their implication to exacerbations

Eleni Papakonstantinou (Thessaloniki, Greece), Daiana Stolz (Basel, Switzerland), Hans Hirsch, Daniel Schilter, Renaud Louis, Janko Rakic, Lucas Boeck, Eleni Papakonstantinou, Christian Schindler, Leticia Grize, Michael Tamm

Sputum biospecimen quality and suitability for microbiome characterisation in COPD

Ian A. Yang (Chermside, Australia), Janet Shaw, Hannah O'Farrell, Olivia Ferry, Pamela Fung, Deborah Courtney, Raylene Bowman, Kwun Fong

Moraxella catarrhallis infection of healthy and COPD ciliated epithelial cultures

Simona Velkova (London, United Kingdom), Alina Petris, Dani Lee, Primrose Freestone, Rick Williamson, Soren Beinke, Nikolai Belyaev, Edith Hessel, Dale Moulding, Rosalind Smyth, Claire Smith, Christopher O'Callaghan

Relationship between the respiratory microbiome and systemic patterns in COPD

Laura Millares Costas (Badalona (Barcelona), Spain), Sergi Pascual, Cristina Lalmolda, Marian García-Nuñez, Rosa Fane, Carme Casadevall, Laia Seto, Oscar Cuevas, Silvia Capilla, Amalia Moreno, Ady Castro, Carlos Alvarez, Oriol Sibila, German Peces-Barba, Borja Cosio, Concepción Monton, Alvar Agusti, Joaquim Gea, Eduard Monsó

What is the best technique to extract bacterial DNA from sputum?

Martina Oriano (Milan, Italy), Leonardo Terranova, Luca Ruggiero, Camilla Tafuro, Antonio Teri, Lisa Cariani, Elisa Franceschi, Francesco Amati, Andrea Gramegna, Martina Contarini, James D Chalmers, Paola Marchisio, Stefano Aliberti, Francesco Blasi
**Symposium: The asthma-allergy “family”**

Relationships within and beyond the lungs

**Aims**: to provide practicing clinicians an update on the molecular biology and pathology of the “organs” that associate with asthma and to describe how these “organs” and allergy connect to asthma. These “organs” include the gut, skin, nose and small airways. This session will help day-to-day clinicians to become aware of the roles that these “organs” play in the clinical manifestations of asthma. This session will also provide an update on the immunoregulatory pathways that are involved in the clinical manifestations of asthma.

**Disease(s)**: Airway diseases

**Method(s)**: Cell and molecular biology  General respiratory patient care

**Tag(s)**: Translational

**Target audience**: Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Pathologist, Patient, Scientist (basic, translational), Student, Trainee

**Chairs**: Ay e Arzu Yorganc o lu (Izmir, Turkey), Apostolos Bossios (Stockholm, Sweden)

**Session 542  10:45 - 12:45**

### 10:45 Patient testimonial

Maria Stefansdottir (Reykjavik, Iceland)

### 10:55 The gut

Cezmi A. Akdis (Davos, Switzerland)

### 11:22 The skin

Isabella Annesi Maesano (Paris, France)

### 11:50 Allergy

Ioana Agache (Brasov (Brasov), Romania)
## 7.1A  
### Session 543  
### 10:45 - 12:45

**Hot topics: Important changes in the management of tuberculosis**

**Aims:** New developments in translational research are having a significant impact on the clinical management of TB. This session will give attendees an idea of the future and how we will eventually be able to eradicate TB.

**Disease(s):** Respiratory infections

**Method(s):** Cell and molecular biology  General respiratory patient care  Public health

**Tag(s):** Translational

**Target audience:** Clinical researcher, Patient, Policy maker, Scientist (basic, translational), Trainee, Adult pulmonologist/Clinician

**Chairs:** Keertan Dheda (Cape Town, South Africa), Martina Sester (Homburg (Saar), Germany)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:45</td>
<td>When will genetic testing replace standard drug susceptibility testing?</td>
<td>Daniela Maria Cirillo (Milano (MI), Italy)</td>
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<tr>
<td>11:15</td>
<td>Tuberculosis in vulnerable populations: the E-DETECT TB project</td>
<td>Alberto Matteelli (Brescia (BS), Italy)</td>
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<td>11:45</td>
<td>ERS/ECDC updated European Union standards of tuberculosis care</td>
<td>Marieke van der Werf (Stockholm, Sweden)</td>
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<tr>
<td>12:15</td>
<td>Can we predict who will develop TB among those with a positive interferon-release assay (IGRA)?</td>
<td>Graham H. Bothamley (London, United Kingdom)</td>
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## 7.1B  
### Session 544  
### 10:45 - 12:45

**Symposium: Endoscopic solutions for obstructive lung diseases**

**Aims:** to describe the minimally invasive solutions that are increasingly being offered for obstructive lung diseases. The symposium will describe the limitations and complications of each solution and provide recommendations.

**Disease(s):** Airway diseases

**Method(s):** Endoscopy and interventional pulmonology  Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Physiotherapist, Radiologist, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Daniela Gompelmann (Heidelberg, Germany), Gerard J. Criner (Philadelphia, United States of America)

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<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Endoscopic lung volume reduction</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
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<tr>
<td>11:15</td>
<td>Endoscopic treatment of severe asthma</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
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<tr>
<td>11:45</td>
<td>Chronic bronchitis and endoscopy</td>
<td>Karin Klooster (Groningen, Netherlands)</td>
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<tr>
<td>12:15</td>
<td>Targeted lung denervation</td>
<td>Coenraad Frederik Nicolaas Koegelenberg (Cape Town, South Africa)</td>
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## 7.3C  
### Session 545  
### 10:45 - 12:45

**Symposium: Palliative care specific for respiratory diseases**

**Aims:** to describe the current state-of-the-art of palliative care in the specific setting of respiratory disease. Special attention will be paid to the following: the collaboration between the patient and the professional team; the specific problems that are faced in lung cancer; and the specific problems that are encountered in patients with chronic obstructive pulmonary disease or interstitial lung disease and patients admitted to the intensive care unit.
## Session 546 10:45 - 12:45

**Hot topics: Emerging and novel imaging biomarkers in drug-induced interstitial lung disease**

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<th>Time</th>
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<tr>
<td>10:45</td>
<td>Palliative care - an alliance between the patient, the pulmonologist and the palliative care team</td>
<td>Claudia Bausewein (München, Germany)</td>
<td>5332</td>
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<tr>
<td>11:15</td>
<td>Palliative care specific for lung cancer</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
<td>5333</td>
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<tr>
<td>11:45</td>
<td>Palliative care specific for patients with chronic respiratory disease</td>
<td>David M. G. Halpin (Exeter Devon, United Kingdom)</td>
<td>5334</td>
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<tr>
<td>12:15</td>
<td>End-of-life care specific for patients in the intensive care unit</td>
<td>J. Randall Curtis (Seattle, WA, United States of America)</td>
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### Aims:

(i) To explore the current evidence regarding drug-induced lung toxicity, thereby highlighting its growing impact; (ii) to describe the in vivo models that are being used to elucidate the cell and extracellular matrix changes that underlie drug-induced interstitial lung disease (DIILD) and to identify imaging biomarkers for the detection and quantification of DIILD; (iii) to describe the new imaging techniques for assessing interstitial lung disease and their potential usefulness in DIILD; and (iv) to describe the potential clinical uses of molecular probes for detecting, staging and quantifying fibrosis and fibrogenesis.

### Disease(s): Interstitial lung diseases

### Method(s): Imaging

### Target audience: Clinical researcher, Radiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Philippe Camus (Dijon, France), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

### Session 547 10:45 - 12:45

**Oral presentation: Advances in exercise physiopathology**

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<th>Time</th>
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<tr>
<td>10:45</td>
<td>Drug-induced interstitial lung disease: known knowns and known unknowns</td>
<td>Elisabeth Bendstrup (Vejle, Denmark)</td>
<td>5336</td>
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<tr>
<td>11:15</td>
<td>MRI and CT imaging of in vivo models of drug-induced interstitial lung diseases.</td>
<td>Irma Mahmutovic Persson (Lund, Sweden)</td>
<td>5337</td>
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<tr>
<td>11:45</td>
<td>Use of MRI for functional and structural assessment of interstitial lung disease</td>
<td>James M. Wild (Sheffield (South Yorkshire), United Kingdom)</td>
<td>5338</td>
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<tr>
<td>12:15</td>
<td>Non-invasive molecular imaging of pulmonary fibrosis</td>
<td>Sydney Montesi (Boston, United States of America)</td>
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</table>

## Session 547 10:45 - 12:45

**Oral presentation: Advances in exercise physiopathology**

### Disease(s): Airway diseases Pulmonary vascular diseases Sleep and breathing disorders

### Method(s): Imaging Physiology

**Chairs:** Samuel Vergès (Grenoble, France), Thomas Radtke (Zürich, Switzerland)

**OA5340**

**Effects of acute dual bronchodilator treatment (tiotropium + olodaterol) on cardiopulmonary interactions in hyperinflated patients with COPD**

Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Renata Diniz Marques, Brandon Palmer, Katherine Webb, Denis E O’Donnell, J Alberto Neder

**OA5341**

**Pulsed inhaled nitric oxide (iNO) improves exercise tolerance and shortness of breath (SOB) in severe COPD subjects with pulmonary hypertension (PH)**

Bita Hajian (Huizen, Netherlands), Bharati Shivalkar, Francisca Ferreira, Cedric Van Holsbeke, Wim Voss, Jan De Backer, Peter Fernandes, Kathleen Sartoris, Deborah Quinn, Annemie Hufkins, Paul M Parizel, Johan Cluckers, Wilfried De Backer
**Session 548**

**10:45 - 12:45**

**Oral presentation: New insights in the signalling pathways that underlie IPF pathophysiology**

**Disease(s):** Interstitial lung diseases, Airway diseases

**Method(s):** Cell and molecular biology

**Chairs:** Melanie Konigshoff (Denver, United States of America), Bruno Crestani (Paris, France)

**LSC - 2018 - PRRX1 a pro-fibrotic mesenchymal transcription factor modulated by remodeled microenvironment in IPF**

Emmeline Marchal-Duval (Paris, France), Antoine Froidure (antoine.froidure@uclouvain.be / Fondation Saint-Luc UCL, Bruxelles), Madeleine Jailet (madeleine.jailet@inserm.fr / INSERM U1152, Paris), Mada Ghanem (mada.ghanem@inserm.fr / INSERM U1152, Paris), Audrey Joannes (audrey.joannes@inserm.fr / INSERM U1152, Paris), Arnaud Maurac (arnaud.maurac@gmail.com / INSERM U1152, Paris), Aurelie Cazes (aurelie.cazes@aphp.fr / Hôpital Bichat Service d'anatomopathologie, Paris), Pierre Mordant (pierre.mordant@aphp.fr / Hôpital Bichat Service de Chirurgie Thoracique, Paris), Hervé Mal (herve.mal@aphp.fr / Hôpital Bichat Service de Pneumologie B, Paris), Bruno Crestani (bruno.crestani@aphp.fr / Hôpital Bichat Service de Pneumologie A, Paris), Arnaud Mailleux (arnaud.mailleux@inserm.fr / INSERM U1152, Paris)

**LSC - 2018 - FKBP10 regulates fibroblast migration via synthesis of collagen VI**

Claudia Staab-Weijnitz (München, Germany), Larissa Knüppel, Katharina Heinzelmann (katharina.heinzelmann@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz-Zentrum München, Munich, DE; Member of the German Center of Lung Research (DZL), Munich), Michael Lindner (m.lindner@asklepios.com / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Rudolf Hatz (rudolf.hatz@med.uni-muenchen.de / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Jürgen Behr (juergen.behr@med.uni-muenchen.de / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Oliver Eickelberg (OLIVER.EICKELBERG@UCDENVER.EDU / Pulmonary and Critical Care Medicine University, Colorado Anschnitz Medical Campus, Denver, Colorado, United States of America, Munich), Claudia A. Staab-Weijnitz (staab-weijnitz@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz-Zentrum München, Munich, DE; Member of the German Center of Lung Research (DZL), Munich)

**LSC - 2018 - Collagen-producing macrophages can mediate lung fibrosis through Fra-2/AP-1 expression**

Alvaro Conrado Ucero

**OA5342**

Ventilatory assistance decreases mechanical-inspiratory constraints and improves exercise tolerance in overlapping COPD-heart failure.

Aline Souza (Belo Horizonte (MG), Brazil), Adriana Mazzuco, Maria Clara Alencar, Flávio Arbex, Mayron Faria, Wladimir Muzzeti, Denis E. O’ Donnell, Luiz Eduardo Nery, J Alberto Neder, Priscila Sperandio

**Effect of dexmethasone on cerebrovascular hemodynamics in lowlanders with COPD travelling to 3100m.**

Michael Furian (Zürich, Switzerland), Sara E Hartmann, Mona Lichtblau, Sayaka S Aeschbacher, Batyr Osmonov, Maya Bisang, Stefanie Ulrich, Hannes Knapp, Erkin Mirrakhimov, Talant Sooronbaev, Silvia Ulrich, Marc J Poulin, Konrad E Bloch

**Cardiopulmonary exercise test for risk assessment in lung resection surgery**

Danielle Cristine Campos Bedin (São Paulo (SP), Brazil), Roberta Pulcheri Ramos, Elaine Brito Vieira, Sonia Maria Faresin, Luiz Eduardo Nery

**Prediction algorithm of Wmax in COPD and evaluation by Cardiopulmonary Exercise Testing.**

Georgia Papapostolou (Lund, Sweden), Linnea Jarenbäck, Jaro Ankerst, Leif Bjermer, Saga Jönsson, Stefan Peterson, Finn Radner, Ellen Tufvesson, Göran Eriksson

**OA5345**

LSC - 2018 - PRRX1 a pro-fibrotic mesenchymal transcription factor modulated by remodeled microenvironment in IPF

Emmeline Marchal-Duval (Paris, France), Antoine Froidure (antoine.froidure@uclouvain.be / Fondation Saint-Luc UCL, Bruxelles), Madeleine Jailet (madeleine.jailet@inserm.fr / INSERM U1152, Paris), Mada Ghanem (mada.ghanem@inserm.fr / INSERM U1152, Paris), Audrey Joannes (audrey.joannes@inserm.fr / INSERM U1152, Paris), Arnaud Maurac (arnaud.maurac@gmail.com / INSERM U1152, Paris), Aurelie Cazes (aurelie.cazes@aphp.fr / Hôpital Bichat Service d'anatomopathologie, Paris), Pierre Mordant (pierre.mordant@aphp.fr / Hôpital Bichat Service de Chirurgie Thoracique, Paris), Hervé Mal (herve.mal@aphp.fr / Hôpital Bichat Service de Pneumologie B, Paris), Bruno Crestani (bruno.crestani@aphp.fr / Hôpital Bichat Service de Pneumologie A, Paris), Arnaud Mailleux (arnaud.mailleux@inserm.fr / INSERM U1152, Paris)

**OA5346**

LSC - 2018 - FKBP10 regulates fibroblast migration via synthesis of collagen VI

Claudia Staab-Weijnitz (München, Germany), Larissa Knüppel, Katharina Heinzelmann (katharina.heinzelmann@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz-Zentrum München, Munich, DE; Member of the German Center of Lung Research (DZL), Munich), Michael Lindner (m.lindner@asklepios.com / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Rudolf Hatz (rudolf.hatz@med.uni-muenchen.de / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Jürgen Behr (juergen.behr@med.uni-muenchen.de / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Oliver Eickelberg (OLIVER.EICKELBERG@UCDENVER.EDU / Pulmonary and Critical Care Medicine University, Colorado Anschnitz Medical Campus, Denver, Colorado, United States of America, Munich), Claudia A. Staab-Weijnitz (staab-weijnitz@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz-Zentrum München, Munich, DE; Member of the German Center of Lung Research (DZL), Munich)

**OA5348**

LSC - 2018 - Collagen-producing macrophages can mediate lung fibrosis through Fra-2/AP-1 expression

Alvaro Conrado Ucero

**OA5349**

Growth hormone-releasing hormone receptor antagonist MIA-602 modulates mouse lung inflammation and fibrosis due to bleomycin

Robert M. Jackson (Miami, United States of America), Lin Ai, Chongxu Zhang, Gaetan Delcroix, Tengjiao Cui, Xianyang Zhang, Mehdi Mirsaeidi, Aaron Lazerson, Andrew Schally

**OA5350**

MKP-5 inhibition blunts fibrotic responses in vitro and in vivo through negative regulation of TGFβ1-induced smad3-signalling

Arghiris Tzouvelekis (Athens, Greece), Nikolaos Xylourgidis, Kisu Min, Thodoris Karampitsakos, Ioanna Ninou, Ilianna Barbayianni, Anton Bennett, Vassilis Aidinis, Naftali Kaminski

**OA5351**

Involvement of GPX4-regulated lipid peroxidation in IPF pathogenesis.

Kazuya Tsuubouchi (Tokyo, Japan), Jun Araya, Shunsuke Minagawa, Hiromichi Haru, Yusuke Hosaka, Akihiro Ichikawa, Nayuta Saito, Masahiro Yoshida, Takeo Ishikawa, Takanori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano
**OA5352**

**Extracellular vesicles from broncho-alveolar lavage act on cellular behavior during lung fibrosis.**

Olivier Burgy (Aurora, United States of America), Ana Martin Medina, Christoph H Mayr, Jürgen Behr, Herbert B Schiller, Melanie Königshoff

**OA5353**

**p16ink4a deletion switches emphysema to fibrosis in mouse**

Maeva Zysman (Montreuil, France), Bruno Ribeiro Baptista, Clément Giffard, Philippe Caramelle, Maylis Dagouassat, François Chabot, Sophie Lanone, Jorge Boczkowski, Laurent Boyer

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### 7.3K Session 549 10:45 - 12:45

**Symposium: Effects of smoking on asthma**  
**Effects of smoking cessation on asthma immunity and outcomes**

**Aims**: to provide pulmonologists, paediatricians, investigators and health allied professionals with an update on smoking in asthma; to describe new information about the smoking cluster of patients with severe asthma; to describe how to handle the smoking asthmatic phenotype; to encourage concern about special groups of smokers (pregnant women, parents, etc.); and to highlight the need for organising specific programs for asthmatics who smoke.

**Disease(s)**: Airway diseases  
Paediatric respiratory diseases

**Method(s)**: Cell and molecular biology  
Epidemiology  
Physiology  
Public health  
Pulmonary function testing

**Tag(s)**: Clinical

**Target audience**: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs**: Michael Peters (San Francisco, United States of America), Stylianos Loukides (Athens, Greece)

**10:45**  
**Characteristics of the smoking asthmatic patient cluster - data from U-BIOPRED**  
Christos Rossios (London, United Kingdom)  
5354

**11:15**  
**How smoking modifies inflammation and immunology of asthma**  
Peter J. Barnes (London, United Kingdom)  
5355

**11:45**  
**Patient perspective – panel discussion (patients: Breda Flood and Dominique Hamerlijnck)**  
Breda Flood (Gorey, Ireland)  
5356

**12:15**  
**Smoking cessation interventions and asthma control: for whom, how, what to expect**  
Paraskevi Katsaounou (Athens, Greece)  
5357

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### 7.3Q Session 550 10:45 - 12:45

**Oral presentation: Progress in basic and translational research on idiopathic interstitial pneumonias**

**Disease(s)**: Interstitial lung diseases

**Method(s)**: General respiratory patient care  
Cell and molecular biology

**Chairs**: Toby Maher (St. Albans (Hertfordshire), United Kingdom), Francesco Bonella (Düsseldorf, Germany)

**OA5358**

**Late Breaking Abstract - Effectiveness and tolerability of pirfenidone (PFD) in patients with idiopathic pulmonary fibrosis (IPF) from a large Italian practice cohort**  
Carlo Vancheri (Catania (CT), Italy), Alfredo Sebastiani, Paola Rottoli, Fabrizio Luppi, Sergio Harari, Alessandra Ghirardini, Klaus-Uwe Kirchgaessler, Sara Tomassetti

**OA5359**

**BAL cell transcriptome predicts survival in IPF and can be used to gauge and model treatment effects interfering with the TGF-beta pathway**  
Antje Prasse (Hannover, Germany), Alfonso Carleo, Benedikt Jaeger, Jonas Schupp, Paola Rottoli, Wim Wuyts, Naftali Kaminski

**OA5360**

**Synergistic Drug Combination of Nintedanib and Vardenafil Inhibits Fibrosis in AKR-2B Fibroblasts**  
Michael Bourne (Rochester, United States of America), Theodore Kottom, Andrew Limper

**OA5361**

**CHIT1 is a novel therapeutic target in idiopathic pulmonary fibrosis (IPF): anti-fibrotic efficacy of OATD-01, a potent and selective chitinase inhibitor in the mouse model of pulmonary fibrosis**  
Barbara Dymek (Warszawa, Poland), Piotr Sklepkiwicz, Michal Mlacki, Agnieszka Zagodzdon, Robert Koralewski, Marzena Mazur, Magdalena Paplinska-Goryca, Patrycja Jejman-Gryz, Małgorzata Proboszcz, Katarzyna Gorska, Marta Maskey-Warzechowska, Natalia Przywsucha, Rafał Krenke, Adam Golebiowski, Paweł Dobrzański, Karolina Dzwonek

**OA5362**

**Molecular Markers of Telomere Dysfunction and Senescence are Common Findings in the Usual Interstitial Pneumonia Pattern of Lung Fibrosis**  
Joyce Lee (Cherry Hills Village, United States of America), Janet La, Sara Aziz, Robert Brownell, Kirk Jones, Gary Green, Brett Eicker, Jeffrey Golden, Michael Matthay, Jasleen Kukreja, Harold Collard, Paul Wolters
OA5363  A new Humanized Mouse Model for Idiopathic Pulmonary Fibrosis and Effects of Nintedanib Treatment
Antje Prasse (Hannover, Germany), Benedikt Jäger, Linda Plappert, Kim Kraus, Lutz Wollin

OA5364  Development of pulmonary fibrosis in conditional Nedd4-2 deficient mice
Dominik Leitz (Heidelberg, Germany), Julia Duerr, Dmytro Dvornikov, Magdalena Szczygiel, Philip Konietzke, Daniela Rotin, Marc Wielputz, Hiroshi Kawabe, Michael Beers, Ursula Klingmüller, Marcus Mall

OA5365  Calcium-sensing receptor as a therapeutic target for pulmonary fibrosis
Kasope L. Wolffs (Cardiff, United Kingdom), Bethan Mansfield, Simon Scofield, Jeremy P. T. Ward, Christopher J. Corrigan, Y. S. Prakash, Paul J. K. Kemp, Daniela Riccardi

7.3M  Session 551  10:45 - 12:45
Oral presentation: Upper airways morphology and diagnostics, and the challenges associated with mandibular advancement

OA5366  The position of the mandible plays a key role for determining airflow during sleep.
Jean-Benoit Martinot (Namur, Belgium), Nhat-Nam Le-Dong, Boutheina Melki, Valerie Cuthbert, Stéphane Denison, Jean Christian Borel, Jean-Louis Pépin

OA5367  Ultrasoundography of oropharynx and surrounding soft tissues as a screening tool for OSA
Dhruva Chaudhry (Rohtak (Haryana), India), Manjunath Govindagoudar, Jyotsna Sen, Neetu Jain, Mansi Gupta, Brijesh Prajapat, Debraj Jash

OA5368  How lateral airway tissues affect upper airway dimensions with mandibular advancement in obstructive sleep apnoea.
Liz Brown (Sydney (NSW), Australia), Lauriane Juge, Peter Burke, Kate Sutherland, Peter Cistulli, Lynne Bilston

OA5369  Evaluation of upper airway anthropometry by ultrasonography in obstructive sleep apnea patients
Manjunath Govindagoudar (Bagalkot (Karnataka), India), Dhruva Chaudhry, Jyotsna Sen, Neetu Jain, Debraj Jash, Brijesh Prajapat

OA5370  Spectral analysis of peri-pharyngeal muscles’ EMG in patients with OSA and healthy subjects during wakefulness and sleep.
Arie Oliven (Haifa, Israel), Guy Cohen, Rom Oliven, Alan Schwartz

OA5371  Mandibular advancement therapy does not reduce inflammatory and metabolic biomarkers in patients with severe OSA: a randomized controlled trial
Wojciech Trzepizur (Angers CEDEX 9, France), Sylvain Recquoillon, Jean-Louis Pépin, Bruno Vielle, Vanessa Bironneau, Frédérique Chouet-Girard, Sandrine Launois, Nicole Meslier, Jean-Claude Meurice, Xuan-Lan Nguyen, Audrey Paris, Pascaline Priou, Renaud Tamisier, François Goupil, Bernard Fleury, Frédéric Gagnadoux

OA5372  Long-term objective compliance with a mandibular advancement device and continuous positive airway pressure in moderate obstructive sleep apnea
Grietje E. De Vries (Groningen, Netherlands), Aarnoud Hoekema, Johannes Claessen, Cornelis Stellingsma, Boudewijn Stegenga, Huib Kerstjens, Peter Wijkstra

7.3O  Session 552  10:45 - 12:45
Oral presentation: Lung cancer: novel molecular markers and mechanisms

OA5373  Mandibular advancement therapy does not reduce inflammatory and metabolic biomarkers in patients with severe OSA: a randomized controlled trial
Wojciech Trzepizur (Angers CEDEX 9, France), Sylvain Recquoillon, Jean-Louis Pépin, Bruno Vielle, Vanessa Bironneau, Frédérique Chouet-Girard, Sandrine Launois, Nicole Meslier, Jean-Claude Meurice, Xuan-Lan Nguyen, Audrey Paris, Pascaline Priou, Renaud Tamisier, François Goupil, Bernard Fleury, Frédéric Gagnadoux
OA5375 LSC - 2018 - A requirement for mast cells in lung adenocarcinoma
Giannoula Ntaliarda (Patra, Greece), Ioannis Lilis (ioannislilis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Vassilios Papaleonidopoulos (papaleon@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Ioanna Giopanou (giopanou@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Maria Oplopoiou (moplopoiou@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Marina Lianou (plia2306@upnet.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Georgia A Giotopoulou (giotopoulou.g@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Antonia Marazioti (amarazioti@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Magda Spella (magspa@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Sebastian Marwitz (smarwitz@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Member of the German Center for Lung Research (DZL), Borstel), Torsten Goldmann (tgoldmann@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Member of the German Center for Lung Research (DZL), Borstel), Vasiliki Bravou (vibra@upatras.gr / Department of Anatomy-Histology-Embryology, Faculty of Medicine, University of Patras, Rio), Georgios T. Stathopoulos (gstathop@upatras.gr / Department of Anatomy-Histology-Embryology, Faculty of Medicine; University of Patras, Rio)

OA5376 TRAP1 downregulation could overcome gefitinib resistance in NSCLC via EMT reversal
Su Jin Oh (Iksan, Republic of Korea), Eun Hwang, Eun Taik Jeong, Hak Ryul Kim

OA5377 ADAM28 deletion in mice impacts lung metastasis formation
Céline Hubeau (Liège, Belgium), Catherine Gerard, Oriane Carnet, Markus Moser, Agnes Noël, Didier Cataldo, Natacha Rocks

OA5378 NTHi-induced inflammation activates the PD-1 immune checkpoint in the tumor microenvironment
Christoph Beisswenger (Homburg (Saar), Germany), Felix Ritzmann, Giovanna Vella, Christian Herr, Robert Bals

OA5379 Inhibitory effects of mitochondrial TRAP1 on gefitinib-resistance in non-small lung cancer cells
Ki Eun Hwang (Iksan, Republic of Korea), Jiun Oh, Eun Taik Jeong, Hak Ryul Kim

Session 553 10:45 - 12:45
Oral presentation: Eosinophils in airway disease

Disease(s) : Airway diseases Respiratory critical care
Method(s) : Physiology Respiratory intensive care General respiratory patient care Cell and molecular biology
Chairs : Guy Brusselle (Ghent, Belgium), Péter Horváth (Budapest, Hungary)

OA5381 Late Breaking Abstract - Protection by budesonide against clinically important deteriorations (CID) in patients with COPD is dependent on blood eosinophil counts (EOS)
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Dave Sing, Christine Jenkins, Stefan Peterson, Thomas Bengtsson, Malin Fagerås

OA5382 Blood eosinophilia (BE) and outcomes in patients with acute severe exacerbations of COPD (AECOPD)
Aung Kyaw Soe (Moscow, Russian Federation), Marina Semenovna Kevorkova, Galia Serikovna Nuralieva, Andrey Stanislavovich Belevskyi, Sergey Nikolaevich Avdeev, Alexander Grigorievich Chuchalin

OA5383 Peripheral eosinophils and mortality in COPD patients over nine years
Robson Aparecido Prudente (Botucatu (SP), Brazil), Carolina Mesquita, Renata Ferrari, Estefânia Franco, Suzana Tanni

OA5384 Relationship between blood eosinophil count and bronchial epithelial gene expression in COPD versus Asthma
Leena George (Leicester (Leicestershire), United Kingdom), John Riley, Adam Taylor, Stewart Bates, Scott Wagers, Anna Esteve-Codina, Maria Artigas, Stelios Pavlidis, Dave Singh, Kian Fan-Chung, Peter Sterk, Christopher Brightling

OA5385 Blood eosinophil count predicts severity of respiratory failure, death and future exacerbations in severe life-threatening asthma
Anthony Yit (Singapore, Singapore), Tunn Ren Tay, Ser Hon Piah, Hui Fang Lim, Andrew Li, Priscilla Lau, Rae-Ann Tan, Lay Ping Neo, Mariko Siyue Koh

OA5386 Increased IL5, IL8 and eosinophils in induced sputum of asthmatics with accelerated FEV1 decline
Mateja Marc Malovrh (Kranj, Slovenia), Luka Camlek, Sabina Skrgat, Manca Dezman, Izidor Kern, Peter Korosec
Persistent blood eosinophilia and COPD exacerbation risk after ICS withdrawal from triple therapy in the SUNSET study


Biomarker measurement in asthma patients receiving biologic therapy: a real-world retrospective study

Nicola Hanania (Houston, United States of America), Juanzhi Fang, Lujia Zhou, Benjamin Ortiz, Abhishek Kavati, Xavier Jaumont, Luisa Alvares, Hui Cao

**7.3L**

**Session 554**

10:45 - 12:45

**Poster discussion: Endoscopic lung volume reduction**

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections

**Method(s):** General respiratory patient care, Imaging, Endoscopy and interventional pulmonology

**Chairs:** Dirk-Jan Slebos (Groningen, Netherlands), Konstantina Kontogianni (Heidelberg, Germany)

**PA5389**

Long-term follow-up after endoscopic valve therapy in patients with severe emphysema

Daniela Gompelmann (Heidelberg, Germany), Tobias Heinhold, Elena Bischoff, Ralf Eberhardt, Konstantina Kontogianni, Felix J F Herth, Matthias Rötting

**PA5390**

Influence of endoscopic lung volume reduction with valves on the pulmonary gas exchange

Katharina Stehl (Essen, Germany), Darwiche Kaid, Rüdiger Karpf-Wissel, Heinz Steveling, Christian Taube, Jane Winantea

**PA5391**

Electromagnetic navigation bronchoscopy: parameters associated with a positive result

OSCAR CLAVERIA GARCIA (pamplona, Spain), Jessica Gonzalez, Andres Blanco, Luis Seijo, Juan Berto, Javier J. Zulueta

**PA5392**

Removal of diseased emphysematous tissue with bronchoscopic thermal vapor ablation (BTVA)

Felix J. F. Herth (Heidelberg, Germany), Daniela Gompelmann, Arschang Valipour, Greg Snell, Christian Grah, Christian Witt, Peter Hopkins, Ralf Eberhardt, Pallav Shah

**PA5393**

Quantitative CT Analysis for Fissure Completeness in Bronchoscopic Lung Volume Reduction

Sei Won Lee (Seoul, République de Coree), So Youn Shin, Tae Sun Park, Sang Young Oh, Sang Min Lee

**PA5394**

Five years outcome of Karakoca Resector Balloon dilalation and curetage method in Severe COPD (chronic obstructive pulmonary disease)

Yalcin Karakoca (Istanbul, Turkey), Guler Gogus, Seha Akduman, Baykal Erturk

**PA5395**

Computed Tomography Predictors of Pneumothorax and Hemoptysis after Endobronchial Valve Therapy for Emphysema

Diogo Oliveira (Porto Alegre (RS), Brazil), Miranda Kirby, Joshua Schirn, Fabio Munhoz Svartman, Marcel Rodrigues, Pedro Grynblat, Hector Defranchi, Hugo Caballero Duran, Amanilio Viera Macedo Neto, Hugo Oliveira

**PA5396**

The "Coil Associated Opacity" in endoscopic emphysema treatment. Friend or foe?

Michael Perch (Gentofte, Denmark), Helle Hjort Johannesen, Anne-Marie Kastrup Fiehn, Mette Siemsen, Jann Mortensen

**PA5397**

Impact of radiological changes on treatment outcome following endoscopic lung volume reduction with coils (LVRC) in patients with advanced emphysema

Konstantina Kontogianni (Heidelberg, Germany), Vasiliki Gerovasili, Ralf Eberhardt, Felix J.F. Herth, Claus Peter Heussel, Daniela Gompelmann

**PA5398**

Efficacy and safety of bronchoscopic lung volume reduction (BLVR) modalities functioning independent of collateral ventilation in advanced emphysema: Systematic review and meta-analysis

Naveen Dutt (Jodhpur (Rajasthan), India), Neeti Rustagi, Surjit Singh, Shashank Shekhar, Ashok Kuwal, Kirti Chaudhry, Richard Kirubakaran

**PA5399**

Altered intercostal muscle structure following successful endobronchial lung volume reduction: a pilot study

Peter Wallbridge (Melbourne (VIC), Australia), Mark Hew, Selina Parry, Gary Hammerschlag, Louis Irving, Daniel Steinfort

**PA5400**

Endobronchial valves and spigots in a non-standard indication

Hana Bartáková (Praha, Czech Republic), Juraj Simovic, Jiri Votruba

**PA5401**

Changes in functional capacity after endoscopic lung volume reduction in patients with chronic obstructive lung disease and severe emphysema

Thomas Berghaus (Augsburg, Germany), Fabian Geissenberger, Stefanie Bader, Christian Faul, Martin Schwaiblmair
PA5402 Is bronchoscopic follow up useful after Bronhoscopic Lung Volume Reduction (BLVR) with endobronchial valves? Valentina Luzzi (Firenze (FI), Italy), Margherita Innocenti, Sofia Romani, Fausto Leoncini, Michela Bezzi

PA5403 Pneumothorax after Bronchoscopic Lung Volume Reduction with Endobronchial Valves(EBV-BLVR): Is there any correlation with number of valves? Valentina Luzzi (Firenze (FI), Italy), Mauro Novali, Michela Bezzi

PA5404 Fissure analisys with StratX software and Chartis system for bronchoscopic lung volume reduction (BLVR) with valves Valentina Luzzi (Firenze (FI), Italy), Margherita Innocenti, Fausto Leoncini, Michela Bezzi

PA5405 Reasons for not receiving interventional therapy in patients with severe emphysema Markus Polke (Heidelberg, Germany), Matthias Roetting, Nilab Sarmand, Ralf Eberhardt, Felix Herth, Daniela Gompelmann

PA5406 Physical activity in patients with endoscopic lung volume reduction measured with a SenseWear Armband Lea Schotten (Essen, Germany), Filiz Oezkan, Birte Schwarz, Jane Winantea, Christian Taube, Kaid Darwiche

Terminal 7

Session 555 10:45 - 12:45

Oral presentation: Hot topics in non-invasive ventilation

Disease(s): Sleep and breathing disorders Airway diseases Respiratory critical care Respiratory infections

Method(s): Physiology Respiratory intensive care General respiratory patient care

Chairs: Marieke L. Duiverman (Groningen, Netherlands), João Carlos Winck (Vila Nova de Gaia, Portugal)

OA5407 Late Breaking Abstract - Exhaled air dispersion during application of CPAP via nasal pillows and oronasal mask versus high flow nasal cannula therapy David Shu Cheong Hui (Shatin, Hong Kong), Benny Chow, Matthew Chan

OA5408 Approaching the Non Invasive Ventilation (NIV) in Amyotrophic Lateral Sclerosis (ALS) at home: a Randomized Controlled Trial Eleonora Volpato (Milano (MI), Italy), Salvatore D'Ascenzo, Alessandra Montini, Mara Paneroni, Silvia Grilli, Michele Vitacca, Paolo Banfi

OA5409 The implementation of a psychological support during the adaptation to Non Invasive Ventilation (NIV) in Chronic Obstructive Pulmonary Disease (COPD): a Randomized Controlled Trial Eleonora Volpato (Milano (MI), Italy), Francesca Pagnini, Paolo Banfi


OA5411 Dexmedetomidine for sedation during noninvasive ventilation in acute respiratory syndrome patients Kateryna Bielka (Kyiv, Ukraine), Iuriu Kuchyn

OA5412 Patient attitudes toward a handheld non-invasive ventilator to relieve breathlessness Nicholas Lane (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Tom Hartley, Victoria Ferguson, Nikolaos Chynkiamis, K Gray, Ioannis Vogiatzis, Stephen Bourke

OA5413 Respiratory Physiology-oriented High-intensity Non-invasive Ventilation Lili Guan (Guangzhou, China), Luqian Zhou, Rongchang Chen

OA5414 Long term positive airway pressure effectiveness in obesity hypoventilation syndrome. Pickwick study results Mª Ángeles Sanchez Quiroga (Plasencia, Spain), Babak Mokhlesi, Jaime Corral Peñafiel, Maria Luz Alonso Alvarez, Estrella Ordax Carbajo, Maria Fernanda Troncoso Acvedo, Monica Gonzalez Martinez, Soledad Lopez Martin, Jose Maria Marin Trigo, Sergi Marti, Trinidad Diaz Cambriles, Eusebi Chiner Vives, Felipe Esteban Aizpuru Barandiaran, Carlos Javier Egea Santaolalla, Juan Fernando Masa Jimenez

7.2A  Session 556 10:45 - 12:45

Poster discussion: Exploring the importance of daily physical activity in chronic respiratory disease

Disease(s): Airway diseases Respiratory infections Sleep and breathing disorders Interstitial lung diseases Respiratory infections

Method(s): Epidemiology Public health General respiratory patient care

12.09.2018
Factors associated with daily life physical activity in patients with asthma
Patricia Duarte Freitas (São Paulo (SP), Brazil), Simone T C Da Silva, Rafaela F Xavier, Regina M Carvalho-Pinto, Rafael Stelmach, Alberto Cukier, Milton A Martins, Celso R F Carvalho

Identification of asthma phenotypes using cluster analysis
Patricia Duarte Freitas (São Paulo (SP), Brazil), Rafaela F Xavier, Simone T C Da Silva, Regina M Carvalho-Pinto, Rafael Stelmach, Alberto Cukier, Milton A Martins, Celso R F Carvalho

Previous physical activity level as a predictor of cognitive and emotional status during acute exacerbation of COPD
Irene Torres Sanchez (Santa Fe, Spain), Maria Granados Santiago, Ramón Romero-Fernández, Marie Carmen Valenza, Janet Rodriguez-Torres, Laura López-López

Impact of physical activity level on symptomatology and functionality during an acute exacerbation in COPD patients.
Laura Lopez Lopez (Granada, Spain), Silvia Merlos Navarro, Ramón Romero Fernández, María Granados Santiago, Janet Remedios Rodriguez Torres, Irene Torres Sánchez

Influence of physical activity, sedentary behaviour, body composition and skeletal muscle force to identify phenotypes in COPD patients: a 12 months follow-up
Rafaela Xavier (São Paulo (SP), Brazil), Aline Lopes, Ana Carolina Caporali, Rafael Stelmach, Frederico Fernandes, Regina Carvalho, Alberto Cukier, Ercy Ramos, Celso Carvalho

Using physical capacity to classify inactivity in COPD
Susan Lassche (Groesbeek, Netherlands), Jeannette Peters, Hanneke Van Helvoort, Alex Van ‘T Hul, Jeroen Van Hees

Identifying inconsistencies in intervention descriptors and outcome reporting within systematic reviews of physical activity interventions in COPD
Hayley Lewthwaite (Adelaide (SA), Australia), Tanja W Effing, Tim Olds, Marie T Williams

Sedentary behaviour in an Australian cohort of people with COPD
Sonia Cheng (Sydney (NSW), Australia), Zoe McKeough, Jennifer Alison, Sarah Dennis, Emmanuel Stamatakis

Effect of short-form, sun-style tai chi on physical activity in people with COPD
Sonia Cheng (Sydney (NSW), Australia), Zoe McKeough, Regina Leung, Sally Wootton, Jennifer Alison

Can do versus ‘do do’: a novel concept in patients with COPD
Noortje Koolen (Nijmegen, Netherlands), Jeroen Van Hees, Rob Van Lummel, Richard Dekhuijzen, Remco Djamin, Martijn Spruit, Alex Van ‘T Hul

Classification Decision Tree models to understand subjects with COPD physical activity profiles: Preliminary results
Antenor Rodrigues (Londrina (PR), Brazil), Luiz Antonio Lima Rodrigues, Lorena Paltain Schneider, Felipe Vilaça Cavalari Machado, Leticia Belo, Thais Paes, Karina Couto Furlanetto, Carlos Augusto Camillo, Nidia Aparecida Hernandes, Fabio Pitta

Clinical characteristics, physical function, physical activity and their associations with body composition phenotypes in patients with COPD.
Felipe Machado (Londrina (PR), Brazil), Lorena Schneider, Jéssica Fonseca, Leticia Fernandes, Camila Bonomo, Andrea Morita, Antenor Rodrigues, Karina Furlanetto, Josiane Felcar, Frits Franssen, Martijn Spruit, Fabio Pitta, Nidia Hernandes

Is physical activity equally reduced in patients with respiratory disease? – Preliminary results
Humberto Silva (Londrina, Brazil), Wagner F Aguiar, Aline F L Gonçalves, Thatielle G Silva, Walter A S Loyola, Paulo S Pereira, Antenor Rodrigues, Vanessa S Probst, Fabio Pitta, Carlos A Camillo

Nocturnal sleep and daytime physical activity in patients with ILD: Preliminary results
Wagner F Aguiar (Londrina, Brazil), Humberto Silva, Thatielle G Silva, Aline F L Gonçalves, Walter A Sepúlveda, Paulo S Pereira, Vanessa S Probst, Fabio Pitta, Carlo A Camillo

Physical activity in cystic fibrosis related diabetes
Narelle Cox (Melbourne (VIC), Australia), Anne Holland, Jennifer Alison, Tiffany Dwyer

Longitudinal assessment of physical activity: a methodological approach.
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Matthias Loeckx, Fernanda Machiado Rodrigues, Wim Janssens, Thierry Troosters
Disease(s): Airway diseases, Respiratory critical care, Respiratory infections

Method(s): Public health, Physiology, Respiratory intensive care, Epidemiology, Cell and molecular biology, General respiratory patient care

Chairs: Rebeca Mozín Torrico (Bern, Switzerland), Fabio Midulla (Roma (RM), Italy)

**PA5432**
Whole-genome sequencing of Costa Rican children with asthma identifies CRISPLD2 as a candidate gene for lung function
Bo Chawes (Brønshøj, Denmark), Julian Hecker, Christoph Lange, Scott Weiss, Jessica Lasky-Su

**PA5433**
Cord blood eosinophils and Type 2 Innate lymphoid cells are correlated in infants born to mothers with asthma during pregnancy
Gabriela Martins Costa Gomes (Newcastle (NSW), Australia), Patricia De Gouveia Belinelo, Malcolm R. Starkey, Kathryn Jesson, Phil M. Hansbro, Vanessa E. Murphy, Kate Hardaker, Paul D. Robinson, Peter D. Sly, Peter G. Gibson, Joerg Mattes, Adam M. Collison

**PA5435**
Topological data analysis (TDA) of U-BIOPRED paediatric peripheral blood gene expression identified asthma phenotypes characterised by alternative splicing of glucocorticoid receptor (GR) mRNA

**PA5436**
Weighted Gene Co-expression Network Analysis of blood paediatric samples from the U-BIOPRED study identifies oxidative stress association with asthma severity

**PA5437**
Phenotype-endotype in very severe preschool wheezers: The P’titAsthme cohort
Michael Fayon (Bordeaux, France), Valérie Siao, Stéphane Blanchon, Hugues Begueret, Antoine Benard, Patrick Berger

**PA5438**
Distinguishing wheezing phenotypes in childhood: a pooled analysis of five birth cohorts
Ceyda Oksel (London, United Kingdom), Raquel Granell, John Henderson, Adnan Custovic

**PA5439**
Incidence and risk factors of pediatric asthma exacerbations in a multinational, multidatabase cohort study
Esme J. Baan (Rotterdam, Netherlands), Maria De Ridder, Marjolein Engelkes, Elisabeth Svensson, Daniel Prieto-Alhambra, Francesco Lapi, Carlo Giacintu, Gino Picelli, Frank Albers, Lee Evitt, Eric Bradford, Melissa K Van Dyke, Peter Rijnbeek, Miriam Sturkenboom, Hettie M Janssens, Katia M C Verhamme

**PA5440**
Are episodic viral wheeze and multiple-trigger wheeze distinct and constant patterns?
Maud Raaymakers (Breda, Netherlands), Paul Brand, Marielle Pijnenburg, Anja Vaessen-Verberne

**PA5441**
Correlation between RINT values and echocardiographic indices in pre-school children with chronic cough and wheezing.
Giuseppe Fabio Parisi (Catania (CT), Italy), Sara Manti, Valentina Giacchi, Pietro Sciaccia, Lucia Tardino, Caterina Cuppari, Carmelo Salpietro, Ashish Chikermane, Salvatore Leonardi

**PA5442**
Particles in exhaled air (PEXa) in assessment of asthma in children
Maria Juusela (Espoo, Finland), Kristiina Malmström, Venla Aaltoinen, Seppo Sarna, Erik Qvist

**PA5443**
ReCIVA breath sampling in pediatric asthma: a feasibility study
Karl Holden (Leicester (Leicestershire), United Kingdom), Teresa Menally, Dahlia Salman, Caroline Beardsmore, Wadh Ibrahim, Chris Brightling, Salman Siddiqui, Paul Thomas, Erol Gaillard

**PA5444**
Asthma reviews in primary care which include spirometry lead to improved asthma control in children
David Lo (Rothley, United Kingdom), Lesley Danvers, Damian Roland, Matthew Richardson, Yaling Yang, Caroline Beardsmore, Andrew Wilson, Erol Gaillard

**PA5445**
Design and development of a simulation game for parents of preschool children with asthma: an evidence-based approach.
David Drummond (Paris, France), Antoine Tesniere, Alice Hadechouel
Substitution of outpatient care in asthmatic children by online monitoring: Barriers and facilitators for implementation

Mepolizumab for severe eosinophilic asthma: a comparison of efficacy in children, adolescents, and adults
Atul Gupta (London, United Kingdom), Jonathan Steinfeld, Robert Price, Jay Azmi, Eric Bradford, Steven Yancey

Effects of increased ventilation in homes of asthmatic, house dust mite allergic children: A randomised controlled trial
Sune Rubak (Odden, Denmark), Nina Viskum Hogaard, Susanne Halken, Lone Agertoft, Thomas Houmann Petersen, Niels Küchen, Lars Bo Gunnarsen, Barbara Kolarik, Nadja Lyng, Michal Spilak, Marie Frederiksen, Torben Sigsgaard

Session 558 10:45 - 12:45
Poster discussion: New therapies for respiratory infections: experimental and translational studies

Disease(s): Respiratory infections, Respiratory critical care, Airway diseases, Respiratory infections
Method(s): Physiology, Respiratory intensive care, General respiratory patient care, Cell and molecular biology
Chairs: Martin Witzenrath (Berlin, Germany), Anand Shah (London, United Kingdom)

Late Breaking Abstract - Efficient replication of respiratory syncytial virus induces a decrease of mucociliary clearance in human small airway 3D culture
Paul Alouani (Plan les Ouates, Switzerland), Song Huang, Bernadett Boda, Rosy Bonfante, Jimmy Vernaz, Samuel Constant

Late Breaking Abstract - Multidimensional genomic mapping reveals the pathophysiology of Mycobacterium abscessus
Lucas Boeck (Fulbourn (Cambridgeshire), United Kingdom), Marcin Skwark, Will Pearson, Sophie Burbaud, Jasper Sangen, Sony Malhotra, Josie Bryant, Tom L. Blundell, Marc Dionne, Julian Parkhill, Andres Floto

Airway administration of therapeutic antibody (tAb) confers higher protection than parenteral administration in a murine model of acute lung infection
Thomas Secher (Tours, France), Emilie Dalonneau, Christelle Parent, Nathalie Heuzé-Vourc’H

EPs®7630 reduced Rhinovirus bronchial epithelial cell infection and modified host defence systems
Michael Roth (Basel, Switzerland), Lei Fang, Daiana Stolz, Michael Tamm

Therapeutic intratracheal phage application against Acinetobacter baumannii lung infection in mice
Sandra-Maria Wiemhold (Berlin, Germany), Markus Brack, Geraldine Nouailles, Claudius Setz, Anton Ross, Holger Ziehr, Kristina Dietert, Corinne Gurtner, Olivia Kershaw, Achim Dieter Gruber, Manfred Rohde, Norbert Sutter, Christine Rohde, Martin Witzenrath

Intrapulmonary pharmacokinetics of laninamivir in healthy subjects: Comparison between a nebulizer and a dry powder inhaler
Kaoru Toyama (Tokyo, Japan), Hitoshi Ishizuka, Hidetoshi Furue

Streptococcus pneumoniae inhibits Pseudomonas aeruginosa growth on nasal human epithelium in vitro
Song Huang (Plan les ouates, Switzerland), Carole Bertinetti, Ophelie Verbeke, Mireille Caul-Futy, Paul Alouani, Ludovic Wiszniewski, Samuel Constant

The biological effect of intrapleural tissue plasminogen (tPA) activator and DNase delivery in pleural infection patients.
Nikolaos Kanellakis (Patras, Greece), John Wrightson, Rob Hallifax, Rachel Mercer, Maged Fayed, Rachelle Asciak, Ioannis Psalidas, Najib Rahman

Telavancin vs. linezolid in an animal model of severe MRSA pneumonia
Denise Battaglini (Genova, Italy), Gianluigi Li Bassi, Francesco Pagliara, Andrea Meli, Hua Yang, Minlan Yang, Ana Motos, Joaquim Bobi, Elisabet Aguilera, Tarek Sennusi, John Miller, Laia Fernandez, Enric Barbeta Viñas, Antoni Torres

Experimental investigation of pulmonary Aspergillus infection in type 1 diabetes
Yao Ye (Shenyang, China), Wenyang Li, Wei Wang

MAIT cells contribute to a protective antiviral innate response to influenza infection
Timothy Hinks (Oxford, United Kingdom), Bonnie Van Wilgenburg, Liyen Loh, Zhenjun Chen, Troi Pediongo, Huicing Wang, Mai Shi, Zhe Zhao, Marios Koutsakos, Simone Nussing, Snehant, Zhongfeng Wang, Criselle D’Souza, Catarina Almeida, Patrick Reading, Alexandra Corbett, James Mccluskey, Paul Klenerman, Katherine Kedzierska
**Tolerability of anti-infective N-chlortaurine inhaled with a smart-nebuliser**
Bernhard Müllinger (Gauting, Germany), Roland Arnitz, Markus Stein, Petra Bauer, Barbara Lanthaler, Herbert Jamnig, Sabine Scholl-Bürgi, Katharina Stempil-Al-Jazrawi, Hanno Ulmer, Bernhard Baumgartner, Sabine Embacher, Simon Geisler, Johanna Gostner, Beate Kälz, Markus Nagl

**The role of CARD9 in Pneumocystis host defense**
June Chae (Rochester, United States of America), Vijayalakshmi Nandakumar, Deanne Hebrink, Theodore Kottom, Andrew Limper

**High-dose nitric oxide as a potential new therapeutic agent against Mycobacterium abscessus.**
Abdi Ghaffari (Kingston (ON), Canada), Joas Lucas Da Silva, Kristijan Bogdanovski, Adrian M. Zelazny, Kenneth N Olivier

**Pattern of self-reported (cough focus) symptoms across several respiratory virus-human challenge studies**
Alan Bell (London, United Kingdom), Alan Bell, Michael Ghebre, Graham Clarke, Rob Lambkin Williams, Andrew Catchpole, Nicolas Noulain

**Impact of age and gender on efficacy and safety of omadacycline (OMC) vs. moxifloxacin (MOX) in community-acquired bacterial pneumonia (CABP)**
Lynne Garrity-Ryan (Boston, United States of America), Julio Ramirez, Surya Chitra, Courtney Kirsch, Amy Manley, Evan Tzanis, Paul C. Megovern

**Blood eosinophilia in patients with COPD, a real life evaluation**
Margarida Baptista Duarte Barata (Lisboa, Portugal), Teresa Martín, Ricardo Gomes, Helena Grumete, Fernando Menezes, José Duarte

**Relationship between blood eosinophil levels and severity of COPD**
Ahmed Ben Saad (Monastir, Tunisia), Rim Khemakhem, Säousen Cheikh Mhamed, Nesrine Fahem, Asma Migaou, Samah Joobeur, Naceur Rouatbi

**Overlapping biologic exacerbation clusters in asthma and chronic obstructive pulmonary disease have distinct sputum mediator and microbiome profiles**
Sarah Diver (Stockport (Cheshire), United Kingdom), Michael Ghebre, Pee Hwee Pang, Dhananjay Desai, Mona Bafadhel, Koirrobi Haldar, Tatiana Kebadze, Suzanne Cohen, Paul Newbold, Laura Rapley, Joanne Woods, Paul Rugman, Ian Pavord, Sebastian Johnston, Michael Barer, Richard May, Christopher Brightling

**10-year follow-up of hospitalised COPD-patients: Comorbidities, mortality and cause of death**
Terttu Harju (Oulu, Finland), Lotta Peltonen, Heikki Pätsi, Risto Bloori

**Increased urinary l-histidine in patients with asthma–chronic obstructive pulmonary disease overlap**
Jae Jeong Shim (Seoul, Republic of Korea), Jee Youn Oh, Juwhan Choi, Young Seok Lee, Kyung Hoon Min, Gyu Young Hur, Sung Yong Lee, Kyung Ho Kang

**GC MS based untargeted metabolomics for understanding the pathophysiology of asthma COPD overlap (ACO)**
Nilanjana Ghosh (Kharagpur (West Bengal), India), Sivakumar Raju Rathmukam, Sandeep R. Kaushik, Rakesh Arya, Ranjan Nanda, Parthasarathi Bhattacharyya, Sushmita Roy Chowdhury, Rintu Banerjee, Koel Chaudhury

**Identifying asthma features in severe COPD**
Sandhya Matthes (München, Germany), Jakob Stadler, Jürgen Barton, Heidrun Villena-Hermoza, Marion Frankenberger, Nikolaus Kneiding, Katrin Milger, Phillip Probst, Gabriela Leuschner, Dieter Muncker, Paola Arnold, Andrea Koch, Jürgen Behr, Claus Neurohr

**Comparing the different diagnostic criteria of Asthma and COPD overlap**
Yong Suk Jo (Seoul, Republic of Korea), Min Hye Kang, Jeong Mi Lee, Seoung Woo Han, Chin Kook Rhee

**“Asthma-like features” in Chronic Obstructive Pulmonary Disease (COPD) patients**
M. L. E. Bartoli (Pisa (PI), Italy), Marta Daniele, Dario Nieri, Maria Adelaide Roggi, Matteo Bradicich, Roberta Del Cesta, Cristina Cardini, Silvana Cianchetti, Barbara Vagaggini, Pierluigi Paggiaro

**Stability of the eosinophilic phenotype in stable and exacerbated COPD**
Desiree Schumann (Basel, Switzerland), Michael Tammi, Kostantinos Kostikas, Daiana Stolz
PA5478 Stability of blood eosinophilia and neutrophil-to-lymphocyte ratio in COPD
Yağmur Kaptan (İZMİR, Turkey), Aslı Suner, Alev Gürgün, Abdullah Sayiner

PA5479 Serum Club cell16 levels as a biomarker in tobacco-smoke COPD and biomass-smoke COPD
Vivek Vardhan Veerapaneni (Hyderabad (Telangana), India), Jayaraj Bs, Chaya S.K, Lokesh K.S, Kiran Kumar Sivakoti, Rajeshkumar Tirumulappa, Mahesh P.A

PA5480 Interleukin-26 in airway morbidities of long-term tobacco smokers
Karl Hans Che (Stockholm, Sweden), Ellen Tufvesson, Sara Tengvall, Elisa Lappi-Blanco, Rititta Kaarteenaho, Bettina Levanen, Marie Ekberg, Annelie Brauner, Åsa M. Wheelock, Leif Bjerman, Magnus C. Sköld, Anders Lindén

PA5481 Bronchial fibrocyte accumulation in COPD patients
Patrick Berger (Bordeaux, France), Isabelle Dupin, Matthieu Thumerel, Elise Maurat, Florence Coste, Hugues Begueret, Thomas Trian, Michel Montaudon, Roger Marthan, Pierre-Olivier Girodet

PA5482 Predictive value of multigain imaging biomarkers for predicting exacerbations in COPD patients
Julien COHEN (GRENOBLE CEDEX 9, France), Gilbert Ferretti, Renaud Tamisier, Meriem Benmerad, Sébastien Bailly, Cevdet Ozcelik, Emilie Reymond, Sam Bayat, Jean Louis Pépin

Poster discussion: Determinants and monitoring of asthma control

Disease(s) : Airway diseases, Respiratory critical care
Method(s) : Cell and molecular biology, General respiratory patient care, Epidemiology
Chairs : Szymon Skoczny ski (Katowice, Poland), Subhabrata Moitra (Barcelona, Spain)

PA5483 Comparable efficacy of calcilytic and corticosteroid in short-term and long-term allergic asthma models in vivo
Daniela Riccardi (Cardiff, United Kingdom), Ping Huang, Polina Yarova, Martin Schepelmann, Emma J Kidd, William R Ford, Kenneth J Broadley, Christopher J Corrigan, Jeremy Pt Ward, Paul J Kemp

PA5484 A practical guide for interpretation of ERS guidelines for methacholine challenge test (MCT)
Jason Suggett (London (ON), Canada), Mark Nagel

PA5485 The research of cooperativity of patients with asthma
Julry M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Larisa V. Bogovin, Helena I. Karapetian, Anastasia S. Shabanova

PA5486 Role of Aspergillus infection in uncontrolled Asthma
Sam Eldahdouh (Shebin Elkom, Egypt)

PA5487 Valved holding chamber (VHC) angle can affect pressurized netered-dose inhaler (pMDI) medication delivery efficiency
Jason Suggett (London (ON), Canada), Mark Nagel, Val Avvakoumova, Jolyon Mitchell

PA5488 The changes of asthma control and management, patients’ perception for the past decade in China
Jiangtao Lin (Beijing, China), Wenqiao Wang, Xin Zhou, Kaisheng Yin, Chuntao Liu, Changzheng Wang, Mao Huang, Ping Chen, Shaoxi Cai, Changgui Wu, Yadong Yuan, Jing Li, Qichang Lin, Jiangying Zhou, Huiguo Liu, Yuhai Gu, Xingang Huang, Dejun Sun, Xiaohong Yang, Lan Yang, Jianmin Huo, Zhaowang Chen, Wei Zhou, Ping Jiang, Huaping Tang, Rongyu Liu, Wei Zhang, Yiqiang Chen, Yijiang Huang, Xiaojun Liu, Luming Dai, Xianwei Ye, Chengping Hu, Jianying Xu

PA5489 Deep learning facilitates the diagnosis of adult asthma
Katsuyuki Tomita (Yonogawa, Japan), Hirokazu Touge, Hiromitsu Sakai, Hiroyuki Sano, Yuji Tohda

PA5490 Quantitative assessment of hyposalivation and the risk of oropharyngeal problems in asthmatic patients
Setsuko Koshiyama (Kyoto city, Japan), Kayoko Ito, Daiki Hira, Yuko Komase, Susumu Satoh

PA5491 Perceived satisfaction when using an app designed to improve control in moderate-severe asthma patients.
Sonia Herrera Martin (Pamplona (Navarra), Spain), Francisco Javier Campano Lancharro, Tamara Gutiérrez Urra, Ruth García Rey, Marisol Gómez Fernández, Alberto Cuesta Remón, Javier Hueto Pérez De Heredia, Pilar Cebollero Rivas

PA5492 Severe asthma and high doses of corticosteroid adversely impact trabecular bone score more than bone mineral density
Young-Min Ye (Suwon, Republic of Korea), Yong Jun Choi, Hyun-Young Lee, Duk Yong Yoon, An-Hye Kim, Hae-Sim Park

PA5493 Asthma patients are Still Fighting for Breath
Paraskevi Katsaounou (Athens, Greece), Mikaela Odemry, Otto Spranger, Michael E. Hyland, Matthias Gasser, Ioannis Kottakis, Xavier Jaumont, Ismail Kasupeer
<table>
<thead>
<tr>
<th>PA5494</th>
<th>Impact of bronchiectasis on severe asthma: data from the “Severe Asthma Network Italy” (SANI) registry</th>
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<tr>
<td>Enrico Marco Heffler (Torino (TO), Italy), Stefano Aliberti, Concetta Sirena, Alice D’Adda, Sebastian Ferri, Nunzio Crimi, Manuela Latorre, Gianenrico Senna, Pierluigi Paggiaro, Francesco Blasi, Giorgio Walter Canonica</td>
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<th>PA5495</th>
<th>Are elderly and aged asthma different diseases? Results of a multicenter study</th>
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<tr>
<th>PA5496</th>
<th>Club Cell Protein-16 modifies airway inflammation in asthma and is associated with significant clinical asthma outcomes</th>
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<tr>
<td>Monica Kraft (Tucson, United States of America), Julie Ledford, Justyna Gozdz, Xingan Li, David Francisco, Akarsh Manne, Stefano Guerra, Fernando Martinez, Naftali Kaminski, Sally Wenzel, Deborah Meyers, Eugene Bleecker</td>
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<tr>
<th>PA5497</th>
<th>FASE-CPHG Study: Identification of asthma phenotypes in the French Severe Asthma Study using cluster analysis</th>
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<tr>
<td>Chantal Raherison-Semjen (Pessac, France), Anne Prudhomme, Cecilia Nocent-Eijnani, Jean-Philippe Oster, Cyril Maurer, Daniel Coetmoeur, Bertrand Lemaire, Toufik Didi, Eric Parrat, Didier Debieuvre, Laurent Portel</td>
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<th>PA5498</th>
<th>Usefulness of a new JACS questionnaire in assessing the influence of inhalation guidance on asthma control level; comparison of 4 different devices of ICS/LABA</th>
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<td>Hiroshi Tanaka (Sapporo, Japan), Soichiro Hozawa, Yuji Tohda</td>
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<tr>
<th>PA5499</th>
<th>The cost and benefits of exhaled nitric oxide (NO) measurement in asthma - The results from three years follow-up study</th>
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<td>Sy Duong-Quy (Da Lat, Vietnam), Nhu Doan-Thi-Quynh, Dinh Tran-Thanh, Thong Hua-Huy, Craig Timothy, Anh-Tuan Dinh-Xuan</td>
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<th>PA5500</th>
<th>Predictors of severe exacerbations in patients with moderate and severe asthma</th>
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<td>Denitsa Dimitrova (Sofia, Bulgaria), Vania Youroukova, Tsvetelina Velikova, Kalina Tumangelova-Yuzeir</td>
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<td>15:45</td>
<td>Flavio Maciel Dias De Andrade (Recife (PE), Brazil)</td>
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<td>16:30</td>
<td>Sead Zeynel (Skopje, FYROM (Macedonia)), Marija M. Zdraveska (Skopje, FYROM (Macedonia))</td>
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**World Village Theatre**  
Session 187  
16:30 - 17:00  
Session world village: Macedonian Respiratory Society - past, present and future
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<th>Session</th>
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<tr>
<td>Session 231</td>
<td>Session world village: Advancing thoracic medicine in Malaysia</td>
<td>09:00 - 09:30</td>
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<td>09:00</td>
<td>Ahmad Izuanuddin Ismail (Batu Caves (Selangor), Malaysia)</td>
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<td>Session 233</td>
<td>Session world village: Innovations and prospects of respiratory medicine in Kyrgyzstan</td>
<td>09:45 - 10:15</td>
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<td>Talantbek Sooronbaev (Bishkek, Kyrgyzstan), Konrad E. Bloch (Zurich, Switzerland), Silvia Ulrich (Zurich, Switzerland)</td>
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<td>Session 234</td>
<td>Session world village: Driving awareness of particular respiratory problems in Sri Lanka</td>
<td>10:30 - 11:00</td>
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<td>Session 258</td>
<td>Session world village: Presentation of the Taiwan Society of Pulmonary and Critical Care Medicine (TSPCCM)</td>
<td>11:15 - 11:45</td>
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<td>11:15</td>
<td>Kang-Yun Lee (Taipei, Taiwan), Wang Hao Chien (Taipei, Taiwan),</td>
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<td>Session 261</td>
<td>Session world village: Health effects of air pollution and global climate change in Turkey; what does the TTS do?</td>
<td>12:15 - 12:45</td>
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<td>Hasan Bayram (Istanbul, Turkey)</td>
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<td>Session 259</td>
<td>Session world village: Indian Chest Society: yesterday, today and tomorrow</td>
<td>13:00 - 13:30</td>
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<td>Session 328</td>
<td>Session world village: Idiopathic Pulmonary Fibrosis - Why we need to act now</td>
<td>13:30 - 14:00</td>
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<td>Session 329</td>
<td>Session world village: Presentation of the Japanese Respirator Society (JRS)</td>
<td>14:15 - 14:45</td>
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<td>14:15</td>
<td>1) Introduction of the Japanese Respiratory Society (JRS) 2) Introduction of the annual meeting of JRS and activities to accelerate the interchanges between JRS and foreign societies: 3) Introduction of our official journal &quot;Respiratory Investigation&quot; , Yasuhiko Nishioka (Tokushima, Japan), Kazuo (Hwa boo) Chin (Jin) (Kyoto, Japan)</td>
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<tr>
<td>Session 354</td>
<td>Session world village: Pediatric Pneumology and SIMRI's role in Italy</td>
<td>16:00 - 16:30</td>
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<td>16:00</td>
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<td>Session</td>
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<tr>
<td>394</td>
<td>09:00</td>
<td>Session world village: Working in partnership with charities to increase research funding and improve research outcomes</td>
</tr>
<tr>
<td>395</td>
<td>10:30</td>
<td>Session world village: ALAT 2019 in Panama</td>
</tr>
<tr>
<td>396</td>
<td>11:30</td>
<td>Session world village: Egyptian society of Chest Diseases and Tuberculosis past, present, and future</td>
</tr>
<tr>
<td>401</td>
<td>12:00</td>
<td>Session world village: Trends of mortality of pulmonary fibrosis in Chile</td>
</tr>
<tr>
<td>402</td>
<td>12:45</td>
<td>Session world village: Severely, Asthma! – how proper diagnosis, treatment and environment change lives</td>
</tr>
<tr>
<td>403</td>
<td>13:30</td>
<td>Session world village: Presentation of the Tunisian Society of Pneumology (STMRA) and its activities</td>
</tr>
<tr>
<td>404</td>
<td>14:15</td>
<td>Session world village: The Philippine Experience : Connecting the dots on TB and COPD</td>
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<tr>
<td>405</td>
<td>15:00</td>
<td>Session world village: The Asthma Adviceline: How Patients Benefit from One to One Support</td>
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<tr>
<td>406</td>
<td>15:45</td>
<td>Session world village: The Respiratory Society of Serbia (RSS)</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Presenters</td>
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<tr>
<td>15:45</td>
<td></td>
<td>Jelena Jankovic (Beograd, Republic of Serbia), Jelena Cvejić (Beograd, Republic of Serbia)</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>Intervention against non-adherence to support patients with asthma and COPD from Romania</strong></td>
<td>Ruxandra Ulmeanu (Bucuresti (Sector 5), Romania), Nitu Mimi (Bucuresti, Romania), Florin Dumitru Mihaltan (Bucuresti, Romania), Cristian Oancea (Dumbravita, Romania), Daniela Boldeanu (Cluj-Napoca (Cluj), Romania), Adriana Petronela Fildan (Constanta, Romania)</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>COPD prevalence in Romania - is there any progress?</strong></td>
<td>Florin Dumitru Mihaltan (Bucuresti, Romania), Ruxandra Ulmeanu (Bucuresti (Sector 5), Romania), Roxana Maria Nemes (Bucuresti (Sector 5), Romania)</td>
</tr>
</tbody>
</table>
## Session 540

### World Village Theatre

**Session 540**  
**09:00 - 09:30**  

**Session world village:** Fostering tobacco cessation with Social Media and the boat race "La Route du Rhum"

**09:00**  
Speaker to be confirmed

---

## Session 541

### World Village Theatre

**Session 541**  
**10:30 - 11:00**  

**Session world village:** Italian experience of pathology registries

**10:30**  
Venerino Poletti (Forlì, Italy), Adriano Vaghi (Bollate (MI), Italy)
INDUSTRY SPONSORED SESSIONS

DISCLAIMER : THE PRACTICAL WORKSHOPS, EVENING SYMPOSIA, EVENING MINI-SYMPOSIA, EVENING EXPERT FORUM SESSIONS AND EARLY MORNING SYMPOSIA ARE ORGANISED BY INDUSTRY. YOU CANNOT CLAIM CME CREDITS FOR ATTENDING THESE SESSIONS.
### 7.3L  
**Session 151  13:15 - 14:30**

**Industry practical workshop: Advanced Monitoring in a Next Generation Ventilatory**

*Organised by Philips*

**Chairs:** David White (Denver, United States of America)

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:15</td>
<td>New Technologies for Advanced Monitoring</td>
<td>Cesare Gregoretti (Palermo, Italy)</td>
</tr>
<tr>
<td>13:35</td>
<td>Clinical Evidence</td>
<td>Cheryl Needham (Monroeville, United States of America)</td>
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<tr>
<td>13:45</td>
<td>Hands on</td>
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</table>

### Terminal 7  
**Session 152  13:15 - 14:30**

**Industry practical workshop: Latest progress in mouthpiece ventilation in life support**

*Organised by ResMed*

**Chairs:** Hélène Prigent (Garches, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:20</td>
<td>Mouthpiece ventilation (MPV): which patients and what to expect?</td>
<td>Hélène Prigent (Garches, France)</td>
</tr>
<tr>
<td>13:55</td>
<td>Hands on session: How to set up MPV with Astral</td>
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### 7.2A  
**Session 153  13:15 - 14:30**

**Industry practical workshop: Reading between the guidelines: the use of FeNO measurement in asthma management today**

*Organised by CIRCASSIA*

**Chairs:** Liam Heaney (Belfast (Belfast), United Kingdom)

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Introduction by Chairman; Professor Liam Heaney (Belfast): FeNO as a biomarker in inflammatory asthma.</td>
<td>Liam Heaney (Belfast (Belfast), United Kingdom)</td>
</tr>
<tr>
<td>13:25</td>
<td>Presentation 1: FeNO testing in the diagnosis and management of Th-2 asthma</td>
<td>Dominick Shaw (Nottingham (Nottinghamshire), United Kingdom)</td>
</tr>
<tr>
<td>13:45</td>
<td>Presentation 2: FeNO as a biomarker in the selection and monitoring of patients for biologic therapy</td>
<td>Joaquin Sastre Dominguez (Tres Cantos (Madrid), Spain)</td>
</tr>
<tr>
<td>14:05</td>
<td>Workshop: Demonstration of the NIOX VERO FeNO test device</td>
<td></td>
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</table>

### 7.2C  
**Session 154  13:15 - 14:30**

**Industry practical workshop: Connected health & big data in Sleep – innovative usage and future outlook**

*Organised by ResMed*

**Chairs:** Carlos M. Nunez (San Diego, United States of America)

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Connected health and the impact of big data analytics</td>
<td>Carlos M. Nunez (San Diego, United States of America)</td>
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<tr>
<td>13:35</td>
<td>An innovative approach to home titration - the benefits of telemonitoring</td>
<td>Maciej Krol (Lodz, Poland)</td>
</tr>
<tr>
<td>13:55</td>
<td>How big data can improve our understanding of CSA during CPAP therapy</td>
<td>Holger Woehrle (Ulm, Germany)</td>
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<tr>
<td>13:15</td>
<td>Industry practical workshop: Clinical Usefulness of Diffusion Capacity - DLCO.</td>
<td>nnd Medizintechnik AG</td>
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<tr>
<td>13:33</td>
<td>Clinical Usefulness of Diffusion Capacity - DLCO. How we profit from recent advancements.</td>
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<td>13:51</td>
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<td>14:09</td>
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**7.3X**

**Session 157** 13:15 - 14:30  
Industry practical workshop: Interventional Pulmonologist, the toolkit you need  
Organised by Boston Scientific International SA  
Chairs : Kaid Darwiche (Essen, Germany)

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>13:15</td>
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<td>13:33</td>
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<td>13:51</td>
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<td>14:09</td>
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</tbody>
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**7.3Y**

**Session 158** 13:15 - 14:30  
Industry practical workshop: Flexible and Rigid Bronchoscopy in Adults  
Organised by Karl Storz SE & Co. KG  
Chairs : Hermann Tonn (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Presentation about Flexible and Rigid Bronchoscopy in Adults</td>
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<tr>
<td>13:30</td>
<td>Hands-on-Workshop: practical demonstration and training</td>
</tr>
</tbody>
</table>

**7.3C**

**Session 189** 17:15 - 19:15  
Industry evening symposium: Update on Severe Eosinophilic Asthma: Decision Making in Clinical Practice  
Organised by AstraZeneca PLC  
Chairs : Arnaud Bourdin (Montpellier Cedex 5, France)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>17:15</td>
<td>Welcome and Introductions</td>
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<tr>
<td>17:20</td>
<td>Stratifying Asthma by Inflammatory Phenotypes</td>
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<tr>
<td>17:40</td>
<td>New Therapeutic Options for Managing Severe Eosinophilic Asthma</td>
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<tr>
<td>18:15</td>
<td>Clinical Challenges and Management Strategies in Eosinophilic Asthma</td>
</tr>
</tbody>
</table>

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ERS 2018 International Congress  
INDUSTRY SPONSORED SESSIONS  
SUNDAY 16 SEPTEMBER, 2018
Session 190 17:15 - 19:15
Industry evening symposium: Bridging the gap between research and clinical practice – where next in IPF?
Organised by F. Hoffmann-La Roche Ltd

17:15 Welcome and opening
Vincent Cottin (Lyon, France)

17:20 Making a leap: how can new technology improve the accuracy of IPF diagnosis?
Carlo Vancheri (Catania (CT), Italy)

17:40 Building a bridge: how can tertiary and secondary care work together to improve patient outcomes?
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Helen Morris (Manchester (Greater Manchester), United Kingdom)

18:10 Making the connection: what do French data from PASSPORT tell us?
Vincent Cottin (Lyon, France)

18:30 Joining the dots: what do real-world data tell us about antifibrotics in IPF?
Michael Kreuter (Heidelberg, Germany)

18:50 Panel discussion and Q&A
Vincent Cottin (Lyon, France), Michael Kreuter (Heidelberg, Germany), Carlo Vancheri (Catania (CT), Italy), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Helen Morris (Manchester (Greater Manchester), United Kingdom)

19:10 Closing remarks
Vincent Cottin (Lyon, France)

Session 191 17:15 - 19:15
Industry evening symposium: Managing multiple outcomes in COPD: Blending data with patient priorities
Organised by Boehringer Ingelheim International GmbH

17:15 A complex landscape: Current considerations in personalized care
Eric D. Bateman (Cape Town, South Africa)

17:25 Tipping the balance: Combination treatment choice in COPD
MeiLan K. Han (Ann Arbor, United States of America)

17:50 Tailoring our treatment choice in practice: Patient cases
Michael Dreher (Aachen, Germany)

18:25 Rising to the challenge: What’s next?
Eric D. Bateman (Cape Town, South Africa)

18:50 Q&A

19:10 Closing comments
Eric D. Bateman (Cape Town, South Africa)

Session 192 17:15 - 19:15
Industry evening symposium: A new breath-triggered inhaler for asthma: delivering innovation through design
Organised by Mundipharma International Limited

18:50 Panel Discussion, Audience Q&A and Evaluation
All
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>17:15</td>
<td>Welcome</td>
<td>Alberto Papi (Ferrara, Italy), Omar S. Usmani (London, United Kingdom)</td>
<td>1792</td>
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</tr>
<tr>
<td>17:20</td>
<td>From efficacy to effectiveness: where are we with asthma control?</td>
<td>Alberto Papi (Ferrara, Italy)</td>
<td>1793</td>
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<tr>
<td>17:40</td>
<td>Inhaler errors and asthma outcomes: what can we learn from clinical practice?</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
<td>1794</td>
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<tr>
<td>18:00</td>
<td>An innovative new breath-triggered inhaler for the treatment of asthma</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
<td>1795</td>
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<tr>
<td>18:35</td>
<td>Designed with patients in mind: patient support and training tools for improved asthma management</td>
<td>Jane Scullion (Berkshire, United Kingdom)</td>
<td>1796</td>
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<tr>
<td>18:55</td>
<td>Panel discussion</td>
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<tr>
<td>19:10</td>
<td>Closing remarks</td>
<td>Alberto Papi (Ferrara, Italy), Omar S. Usmani (London, United Kingdom)</td>
<td>1798</td>
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### 7.3Q Session 193 17:15 - 19:15

**Industry evening symposium: Effectiveness in everyday clinical practice: New data from the Salford Lung Study in asthma**

*Organised by GSK*

**Chairs:** Frédéric De Blay (Strasbourg, France)

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<th>Time</th>
<th>Title</th>
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<tr>
<td>17:15</td>
<td>Chair's welcome</td>
<td>Frédéric De Blay (Strasbourg, France)</td>
<td>1799</td>
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<tr>
<td>17:20</td>
<td>What does the evidence around RCTs in asthma tell us?</td>
<td>Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy)</td>
<td>1800</td>
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<tr>
<td>17:50</td>
<td>The Salford Lung Study: Defining effectiveness in everyday clinical practice</td>
<td>David Leather (London, United Kingdom)</td>
<td>1801</td>
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<tr>
<td>18:20</td>
<td>The Salford Lung Study in context: A paradigm shift in assessing asthma therapies</td>
<td>Mike Thomas (Southampton (Hampshire), United Kingdom)</td>
<td>1802</td>
<td></td>
</tr>
<tr>
<td>18:55</td>
<td>Q&amp;A and closing remarks</td>
<td>Frédéric De Blay (Strasbourg, France)</td>
<td>1803</td>
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### 7.3M Session 194 17:15 - 19:15

**Industry evening symposium: COPD Patients and Doctors: Travelling in the same direction?**

*Organised by Menarini group*

**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain), Bartolome R. Celli Croquer (Boston, United States of America)

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<tbody>
<tr>
<td>17:15</td>
<td>Chairmen's introduction</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain), Bartolome R. Celli Croquer (Boston, United States of America)</td>
<td>1804</td>
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<tr>
<td>17:25</td>
<td>In this era of “Omnics”: the missing link - Humanomics</td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
<td>1805</td>
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<tr>
<td>17:45</td>
<td>Patients and Doctors: mirroring each other</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>1806</td>
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<tr>
<td>18:05</td>
<td>Developing COPD: how do patients get there?</td>
<td>Alvar Águsti Garcia-Navarro (Barcelona, Spain)</td>
<td>1807</td>
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<tr>
<td>18:25</td>
<td>Treating patients today: deciphering the alphabet soup</td>
<td>Klaus F. Rabe (Grosshansdorf, Germany)</td>
<td>1808</td>
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<tr>
<td>18:45</td>
<td>Panel Discussion</td>
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<td>1809</td>
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</table>
Chairmen’s summary and closing remarks
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Bartolome R. Celli Croquer (Boston, United States of America)

Industry evening symposium: Getting to the 'heart' of COPD management: time for personalization?
Organised by Novartis Pharma AG
Chairs: David Price (Singapore, Singapore)

17:15 Welcome and introduction
David Price (Singapore, Singapore)

17:25 Cardiovascular co-morbidities in COPD: do they matter?
Claus Vogelmeier (Marburg, Germany)

17:40 Acute exacerbations and the multi-morbid patient: a failure of the heart or the lung?
Martin Möckel (Berlin, Germany)

17:55 Chair-led expert discussion and audience Q&A

18:05 ICS use in COPD: are we listening to the evidence?
David Price (Singapore, Singapore)

18:15 Modern management of COPD: time to take it personally?
Jadwiga Wedzicha (London, United Kingdom)

18:45 Chair-led expert discussion and audience Q&A

19:05 Summary & Close
David Price (Singapore, Singapore)

Industry evening symposium: Achieve more – Taking an evidence-based approach to PAH management
Organised by Actelion Pharmaceuticals Ltd
Chairs: Luke Howard (London, United Kingdom), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

17:15 Introduction
Luke Howard (London, United Kingdom)

17:20 Diagnosis and treatment in PAH – Choosing the right approach
Olivier Sitbon (Le Kremlin-Bicêtre, France)

17:40 Differential diagnosis in practice – A patient case
Hans Klose (Hamburg, Germany)

18:10 Choosing the right treatment strategy today – A case study
Marion Delcroix (Leuven, Belgium)

18:40 Managing PAH – Taking an evidence-based approach
Nick Kim (La Jolla, United States of America)

19:00 Panel discussion

Industry evening symposium: Discovering asthma paradigms in an evolving landscape: Experts Perspectives
Organised by Sanofi Genzyme and Regeneron
Chairs: Marc Humbert (Paris, France)
**Session 198** 17:30 - 19:00

**Industry evening mini symposium: Advances in Genetic COPD: Implementation of AATD Research Findings in Clinical Practice**

*Organised by GRIFOLS*

**Chairs:** Noel Gerard McElvaney (Dublin, Ireland)

- **17:30** Welcome and Introduction
  Noel Gerard McElvaney (Dublin, Ireland)

- **17:35** From Evidence to Practice - New Recommendations on the Management of Pulmonary Disease in AATD
  Robert Andrew Stockley (Birmingham (West Midlands), United Kingdom)

- **17:55** Groupe Panel Discussion: Advances in AAT Deficiency - Scientific Milestones Achieved in the Last 30 Years. (Research, Detection and Treatment - A Prelude for the Future)
  Noel Gerard McElvaney (Dublin, Ireland), Sabina Janciauskiene (Hannover, Germany), Robert Andrew Stockley (Birmingham (West Midlands), United Kingdom), Adolfo Baloura Villar (Pontevedra, Spain)

- **18:30** Discussion
  All All

- **18:40** The 15th Annual ALTA Research Grant Award - Introduction and Program Overview
  Noel Gerard McElvaney (Dublin, Ireland)

- **18:45** 2017 ALTA Research Project Presentations
  Luis Sendra (Valencia, Spain), Nerea Matamala (MADRID, Spain)

- **18:50** 2018 ALTA Awards Ceremony
  TBD TBD

- **18:55** Summary and Close
  Noel Gerard McElvaney (Dublin, Ireland)

**Session 199** 17:30 - 19:00

**Industry evening mini symposium: Updates and current challenges in difficult-to-treat pneumonia**

*Organised by Pfizer*

**Chairs:** Jean Chastre (Paris, France)

- **17:30** Setting the scene: difficult-to-treat pneumonia
  Jean Chastre (Paris, France)

- **17:45** Treatment considerations for comorbid patients with CAP: the complex made simple
  Antoni Torres (Barcelona, Spain)

- **18:10** Tackling resistant Gram-negative HAP/VAP: the role of a novel β-lactam/β-lactamase inhibitor
  Matteo Bassetti (Udine (UD), Italy)

- **18:35** Panel Q&A and discussion
  Jean Chastre (Paris, France), Antoni Torres (Barcelona, Spain), Matteo Bassetti (Udine (UD), Italy)
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<th>Time</th>
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<tbody>
<tr>
<td>18:55</td>
<td>Meeting summary and close</td>
<td>Jean Chastre (Paris, France)</td>
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<tr>
<td>17:30</td>
<td>Dive deeper into the lung — how peripheral can I go?</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
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<tr>
<td>17:50</td>
<td>Valve therapy — SeleCT the right emphysema patient</td>
<td>Ralf Eberhardt (Heidelberg, Germany)</td>
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<td>18:10</td>
<td>Get energized with Argon Plasma Coagulation</td>
<td>Franz Stanzel (Hemer, Germany)</td>
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<td>18:30</td>
<td>Celebrate 15 years of EBUS-TBNA</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
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### Session 203 07:00 - 08:15

**Industry early morning symposium: Type 2 Inflammation and the Evolving Profile of Uncontrolled Persistent Asthma**  
*Organised by Sanofi Genzyme and Regeneron Pharmaceuticals*

**Chairs:** Giorgio Walter Canonica (Milano (MI), Italy)

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<tbody>
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<td>07:00</td>
<td>Welcome and Introductions</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
</tr>
<tr>
<td>07:10</td>
<td>Defining Severe Asthma</td>
<td>Zuzana Diamant (Lund, Sweden)</td>
</tr>
<tr>
<td>07:25</td>
<td>Type 2 Asthma: What Is it and What Mediators Drive It?</td>
<td>Sven-Erik Dahlén (Stockholm, Sweden)</td>
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<tr>
<td>07:45</td>
<td>Interactive Session: Identifying Type 2 Asthma in Clinical Practice</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
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<tr>
<td>08:05</td>
<td>Closing Remarks and Panel Q&amp;A</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy), Zuzana Diamant (Lund, Sweden), Sven-Erik Dahlén (Stockholm, Sweden)</td>
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</table>

### Session 204 07:00 - 08:15

**Industry early morning symposium: 6 Month Results of Safety and Feasibility Study in Chronic Bronchitis Patients**  
*Organised by CSA Medical*

**Chairs:** Gerard J. Criner (Philadelphia, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00</td>
<td>Chronic Bronchitis Prevalence and Patient Outlook</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
</tr>
<tr>
<td>07:15</td>
<td>Metered Cryospray Concept to Human Use</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
</tr>
<tr>
<td>07:30</td>
<td>RejuvenAir System Metered Cryospray 6 Month Safety and Feasibility Results</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
</tr>
<tr>
<td>07:45</td>
<td>RejuvenAir Future Design Advancements</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
</tr>
<tr>
<td>08:00</td>
<td>The Future of Metered Cryospray for Chronic Bronchitis Patients</td>
<td>Gerard J. Criner (Philadelphia, United States of America)</td>
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</tbody>
</table>

### Session 207 07:00 - 08:15

**Industry early morning symposium: Patients as partners in drug development: From rhetoric into reality in a connected world**  
*Breakfast will be provided*

*Organised by GSK*

**Chairs:** Monica Fletcher (Cuckfield, United Kingdom), Kjeld Hansen (Oslo, Norway)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>07:00</td>
<td>Welcome and introduction</td>
<td>Monica Fletcher (Cuckfield, United Kingdom)</td>
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<tr>
<td>07:05</td>
<td>What matters to me: A patient perspective</td>
<td>Kjeld Hansen (Oslo, Norway)</td>
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<tr>
<td>07:15</td>
<td>Connecting with patients: The digital opportunity</td>
<td>Felix Jackson (London, United Kingdom)</td>
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<td>07:25</td>
<td>Technology to understand patients' needs in clinical studies</td>
<td>Ruth Tal-Singer (King of Prussia, United States of America)</td>
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<tr>
<td>Time</td>
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<tr>
<td>07:35</td>
<td>The Salford Lung Study: An opportunity for many more patients to take part in a clinical study</td>
<td>David Leather (London, United Kingdom)</td>
</tr>
<tr>
<td>07:45</td>
<td>A patient-driven outcomes study: An Italian Pilot</td>
<td>Alberto Papi (Ferrara, Italy)</td>
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<tr>
<td>07:55</td>
<td>The role of the patient in drug development</td>
<td>Panel discussion</td>
</tr>
<tr>
<td>08:10</td>
<td>Summary: From rhetoric into reality</td>
<td>Monica Fletcher (Cuckfield, United Kingdom)</td>
</tr>
</tbody>
</table>

**7.3L Session 320 13:15 - 14:30**

**Industry practical workshop: Expiratory Flow Limitation - What is it and Why it Matters**

*Organised by Philips*

**Chairs**: David White (Denver, United States of America)

<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>13:15</td>
<td>What is Expiratory Flow Limitaion and why it is Important to Evaluate in COPD.</td>
<td>Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom)</td>
<td>3194</td>
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<tr>
<td>13:45</td>
<td>Hands - On</td>
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<td>13:51</td>
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**Terminal 7 Session 321 13:15 - 14:30**

**Industry practical workshop: Interactive session on home NIV for COPD: how can technology support better care and care management.**

*Organised by ResMed*

**Chairs**: Jesus Gonzalez (Montlignon, France), Mark Phillips (Sydney (NSW), Australia)

<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Event Code</th>
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<tbody>
<tr>
<td>13:15</td>
<td>How to reconcile with high intensity NIV in home COPD patients</td>
<td>Jesus Gonzalez</td>
<td>3198</td>
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<tr>
<td>13:35</td>
<td>Telemonitoring solutions for home NIV: learning from real life experiences</td>
<td>Christopher Carlin</td>
<td>3199</td>
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<tr>
<td>13:55</td>
<td>Hands-on session: NIV setup with Lumis and AirView telemonitoring</td>
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**7.2A Session 322 13:15 - 14:30**

**Industry practical workshop: MRD (Mandibular Repositioning Device) : a proven alternative to CPAP for OSA patients**

*Organised by ResMed*

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Event Code</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Efficacy of MRDs in the treatment of OSA – literature review</td>
<td>Peter A. Cistulli (St Leonards (NSW), Australia)</td>
<td>3202</td>
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<tr>
<td>13:35</td>
<td>Narval CC : an MRD designed for compliance</td>
<td>Jean-Claude Meurice (Poitiers, France)</td>
<td>3203</td>
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<td>13:55</td>
<td>Hands-on session with the Narval appliance</td>
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**7.2C Session 323 13:15 - 14:30**

**Industry practical workshop: Transcutaneous PCO2 monitoring in clinical practice**

*Organised by SenTec AG*

**Chairs**: Prashant Nemichand Chhajed (Mumbai, India)
**Session 325**  
13:15 - 14:30  
**Industry practical workshop: Experience New Dimensions in Interventional Pulmonology**  
Organised by Olympus Europa SE & Co. KG  
**Chairs:** Arschang Valipour (Wien, Austria), Ales Rozman (Golnik, Slovenia), Maren Schuhmann (Heidelberg, Germany), Franz Stanzel (Hemer, Germany)

- **13:15 Introduction**  
  Arschang Valipour (Wien, Austria)  

- **13:30 Practice EBUS-TBNA with the Experts**  
  Maren Schuhmann (Heidelberg, Germany)  

- **13:30 Practice Peripheral Bronchoscopy with the Experts**  
  Ales Rozman (Golnik, Slovenia)  

- **13:30 Practice Valve Therapy with the Experts**  
  Arschang Valipour (Wien, Austria)  

- **13:30 Practice Argon Plasma Coagulation with the Experts**  
  Franz Stanzel (Hemer, Germany)  

**Session 326**  
13:15 - 14:30  
**Industry practical workshop: Optimal Patient Selection for Successful Treatment of Severe Lung Emphysema**  
Organised by Pulmonx  
**Chairs:** Daniela Gompelmann (Heidelberg, Germany)

- **Welcome & Introduction**  
  Daniela Gompelmann (Heidelberg, Germany)  

- **Update on current best practices**  
  Daniel Franzen (Zürich, Switzerland)  

- **How to identify the right patient?**  
  Karin Klooster (Groningen, Netherlands)  

- **The value of QCT-Analysis with StratX**  
  Michela Bezzi (Firenze (FI), Italy)  

- **Chartis & Zephyr Endobronchial Valves**  
  Daniel Franzen (Zürich, Switzerland), Daniela Gompelmann (Heidelberg, Germany)  

**Session 327**  
13:15 - 14:30  
**Industry practical workshop: Endobronchial and Pleural Ultrasound Workshop**  
Organised by FUJIFILM  
**Chairs:** Joris van der Horst (Glasgow (Glasgow), United Kingdom), Christophe Dooms (Leuven, Belgium), Antoni Rosell Gratacos (Hospitalet de Llobregat (Barcelona), Spain), Rüdiger Eichholz (Tübingen, Germany)
7.3N  Session 355  17:15 - 19:15

Industry evening symposium: Current COPD treatment paradigm and evidence: What are the unanswered questions and the clinical implications?

Organised by GSK

Chairs: Bruno P.P. Houset (Creteil, France), Paul Jones (London, United Kingdom)

17:15 Chairs’ welcome
Bruno P.P. Houset (Creteil, France), Paul Jones (London, United Kingdom)

17:20 Current COPD treatment paradigm: What does GOLD recommend and why?
Henrik Watz (Großhansdorf, Germany)

17:35 Evidence from recent studies: The IMPACT study
David A Lipson (Wynnewood, United States of America)

17:50 Approaches to bronchodilator treatment for the breathless patient
Paul Jones (London, United Kingdom)

18:10 What to do with GOLD D patients?
Alice Turner (Birmingham (West Midlands), United Kingdom)

18:30 This patient had an exacerbation last year: What would you do?
Neil C. Barnes (London, United Kingdom)

18:50 Panel discussion and close

7.3C  Session 356  17:15 - 19:15

Industry evening symposium: Aiming for Optimal Asthma Care: A Metamorphosis in Asthma Care?

Organised by AstraZeneca PLC

Chairs: Paul O’Byrne (Hamilton (ON), Canada)

17:15 Welcome and Introductions
Paul O’Byrne (Hamilton (ON), Canada)

17:25 The Paradoxes of Asthma Management
Christine Jenkins (Mc Mahons Point (NSW), Australia)

17:50 Escaping the Paradox - Evidence for As-needed Anti-inflammatory Reliever Therapy
Helen Reddel (Sydney (NSW), Australia)

18:20 Clinical Practice Implications
Eric D. Bateman (Cape Town, South Africa)

18:45 Panel Discussion & Audience Q&A

19:10 Meeting Close
Paul O’Byrne (Hamilton (ON), Canada)

7.3Z2  Session 357  17:15 - 19:15

Industry evening symposium: Fibrosing Interstitial Lung Diseases: Translating Recent Learnings Into Future Directions

Organised by Boehringer Ingelheim International GmbH

Chairs: Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)

17:15 Welcome and introduction
Vincent Cottin (Lyon, France)

12.09.2018
17:25 Diagnosing IPF: time to revisit criteria  
Ganesh Raghu (Seattle, United States of America)  

17:40 Role of genetics and telomere pathway in ILDs  
Christine K Garcia (Dallas, United States of America)  

18:00 Questions and answers  

18:10 Molecular and clinical phenotypes in ILD: a step towards precision medicine  
Toby Maher (St. Albans (Hertfordshire), United Kingdom)  

18:25 Treatment of patients with advanced IPF: new insights  
Fernando J. Martinez (New York, United States of America)  

18:40 Treatment of ILD in patients with systemic sclerosis: current treatments and future directions  
Oliver Distler (Zurich, Switzerland)  

19:00 Questions and answers  

19:10 Summary and close  
Fernando J. Martinez (New York, United States of America)  

7.3Q Session 358 17:15 - 19:15  
Industry evening symposium: Severe Asthma in FOCUS: How can we Reduce OCS Use  
Organised by AstraZeneca PLC  
Chairs: Andrew Menzies-Gow (London, United Kingdom)  

17:15 Welcome and Objectives  
Andrew Menzies-Gow (London, United Kingdom)  

17:25 Challenges of Severe Asthma Management: Current OCS Use in Perspective  
Eugene R. Bleecker (Winston-Salem, United States of America)  

17:45 Insights into the Cumulative Burden of OCS Exposure  
Janwillem W. H. Kocks (Groningen, Netherlands)  

18:05 How can we Reduce OCS use? Treatment Alternatives Under the Lens  
Elisabeth H.D. Bel (Amsterdam, Netherlands)  

18:25 The ‘Big Picture’: Enabling Change to Improve Quality of Care in Severe Asthma  
Andrew Menzies-Gow (London, United Kingdom)  

18:40 Audience Q&A and Panel Discussion  

19:10 Close  
Andrew Menzies-Gow (London, United Kingdom)  

7.3M Session 359 17:15 - 19:15  
Industry evening symposium: Early management of asthma to prevent adverse outcomes – different management strategies according to age group  
Organised by Boehringer Ingelheim International GmbH  
Chairs: Nikolaos Papadopoulos (Manchester, United Kingdom)  

17:15 Welcome and introduction  
Nikolaos Papadopoulos (Manchester, United Kingdom)  

17:25 Asthma in children 5 years: current and future perspectives  
Stanley J. Szefler (Aurora, United States of America)  

17:55 Asthma management in children 6–11 years: what’s new, what’s next  
Christian Vogelberg (Dresden, Germany)  

18:25 The evolving management of asthma in adolescents and adults  
Mark Fitzgerald (Vancouver (BC), Canada)  

18:55 Q&A
19:10 Summary and Close
Nikolaos Papadopoulos (Manchester, United Kingdom)

**Session 360  17:15 - 19:15**

**Industry evening symposium: The asthma patient journey: what more can be done?**

*Organised by Novartis Pharma AG*

**Chairs:** Marc Humbert (Paris, France)

17:15 Welcome, introduction and a guide through the asthma patient journey
Marc Humbert (Paris, France)

17:20 Beginning the asthma journey: barriers and opportunities to improve control
David Price (Singapore, Singapore)

17:40 The era of precision medicine from the pulmonologist’s perspective: the right treatment for the right patient
Liam Heaney (Belfast (Belfast), United Kingdom)

18:00 New real-life data and perspectives in severe asthma patients
Marc Humbert (Paris, France)

18:20 Beyond the breath: the psychological factors of asthma
Kim Lavoie (Montréal (QC), Canada)

18:50 How can we do better for our patients: panel discussion and audience Q&A

19:10 Chair’s concluding remarks
Marc Humbert (Paris, France)

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**Session 361  17:30 - 19:00**

**Industry evening mini symposium: Targeted Lung Denervation (TLD)- A One-Time Treatment for COPD and Severe Asthma**

*Organised by Navaira*

**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain), Felix J.F. Herth (Heidelberg, Germany)

17:30 Welcome and Introduction
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Felix J.F. Herth (Heidelberg, Germany)

17:35 Neural Control of Airway Smooth Muscle and Mucus Production
Brendan Canning (Baltimore, United States of America)

17:45 Mechanism of Action and the NuvairaTM Lung Denervation System
Pallav L. Shah (London, United Kingdom)

18:00 TLD in COPD: Data from the AIRFLOW-1 and Sham-Controlled AIRFLOW-2 Trials
Dirk-Jan Slebos (Groningen, Netherlands), Arschang Valipour (Wien, Austria)

18:30 TLD in COPD: The AIRFLOW-3 Pivotal Trial
Frank Sciurba (Pittsburgh, United States of America)

18:40 TLD in Severe Asthma
Pallav L. Shah (London, United Kingdom)

18:45 Panel Discussion and Q&A

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**Session 362  17:30 - 19:00**

**Industry evening mini symposium: Back to basics in asthma and COPD: optimizing the patient journey**

*Organised by Orion and Menarini*

**Chairs:** Mika Makela (Hus (Helsinki), Finland), Giorgio Walter Canonica (Milano (MI), Italy)

17:30 Introduction
Giorgio Walter Canonica (Milano (MI), Italy)
**Session 363** 17:30 - 19:00

**Industry evening mini symposium: The Rhinitis-Asthma link in childhood: pathogenesis, old and new therapeutic solutions.**

*Organised by OMRON Healthcare Europe B.V.*

**Chairs:** Renato Cutrera (Roma (RM), Italy)

**17:30 Introduction - Welcome**
Renato Cutrera (Roma (RM), Italy)

**17:35 United Airways Disease: pathogenesis, natural history, diagnostic problems**
Bülent Taner Karadag (İstanbul, Turkey)

**18:00 Standard and innovative devices in the treatment of respiratory diseases in childhood**
Renato Cutrera (Roma (RM), Italy)

**18:25 United Airways Treatment: clinical trials with novel devices**
Paolo Maria Matricardi (Berlin, Germany)

**18:50 Discussion**

**Session 364** 17:30 - 19:00

**Industry evening mini symposium: Bronchiectasis: from Guidelines to Clinical Practice**

*Organised by GRIFOLS*

**Chairs:** Francesco Blasi (Milan, Italy)

**17:30 Welcome and Introduction**
Francesco Blasi (Milan, Italy)

**17:40 Management of Bronchiectasis Patients: How to Move from Guidelines to the Clinical Practice**
Eva Polverino (Barcelona, Spain)

**18:05 Microbiological Changes in Bronchiectasis Progression**
Christian Taube (Essen, Germany)

**18:30 Could my patient have Bronchiectasis? A look at Patient Cases**
James D. Chalmers (Dundee (Angus), United Kingdom)

**18:50 Debate and Concluding Remarks**
Francesco Blasi (Milan, Italy)

**Session 365** 17:30 - 19:00

**Industry evening mini symposium: How important is early action in Pulmonary Arterial Hypertension?**

*Organised by GSK*

**Chairs:** Ari Chaouat (Vandoeuvre-Les-Nancy, France)
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<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Introduction – How important is early action in Pulmonary Arterial Hypertension?</strong>&lt;br&gt;Ari Chaouat (Vandoeuvre-Les-Nancy, France)</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>Improving diagnosis in Pulmonary Arterial Hypertension</strong>&lt;br&gt;David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
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<td>17:55</td>
<td><strong>Importance of the right treatment from the start</strong>&lt;br&gt;Ari Chaouat (Vandoeuvre-Les-Nancy, France)</td>
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<tr>
<td>18:15</td>
<td><strong>Putting it into practice: Interactive Pulmonary Arterial Hypertension patient case study</strong>&lt;br&gt;Luke Howard (London, United Kingdom)</td>
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<td>18:40</td>
<td><strong>Q&amp;A – How important is early action in Pulmonary Arterial Hypertension?</strong>&lt;br&gt;Ari Chaouat (Vandoeuvre-Les-Nancy, France)</td>
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</table>

**7.3R Session 366 17:30 - 19:00**

**Industry evening mini symposium: Focusing on the patient – future prospects in Alpha 1 management**<br>*Organised by CSL Behring*

**Chairs:** Michael Campos (Miami, United States of America), Joanna Chorostowska-Wynimko (Warsaw, Poland)

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<tr>
<td>17:30</td>
<td><strong>Welcome and introduction</strong>&lt;br&gt;Michael Campos (Miami, United States of America)</td>
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<tr>
<td>17:35</td>
<td><strong>Rare lung diseases in the spotlight: New European initiatives</strong>&lt;br&gt;Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<td>17:50</td>
<td><strong>Do we need another AATD registry?</strong>&lt;br&gt;Miriam Barrecheguren Fernandez (Barcelona, Spain)</td>
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<tr>
<td>18:00</td>
<td><strong>No lab – No diagnosis: How to align testing for AATD across Europe</strong>&lt;br&gt;Ilaria Ferrarotti (Pavia (PV), Italy)</td>
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<tr>
<td>18:10</td>
<td><strong>Alternative dosing regimens for patients with AATD: Safety of bi-weekly AAT therapy</strong>&lt;br&gt;Timm Greulich (Marburg, Germany)</td>
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<td>18:25</td>
<td><strong>Self-administration of AAT therapy in the US: Results of an AlphaNet survey</strong>&lt;br&gt;Robert A. Sandhaus (Bow Mar, United States of America)</td>
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<td>18:40</td>
<td><strong>Discussion/Questions</strong></td>
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<td>18:55</td>
<td><strong>Closing remarks</strong>&lt;br&gt;Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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### 7.3L Session 476 13:15 - 14:30

**Industry practical workshop: Humidified nasal high flow for respiratory support in the chronic setting**  
*Organised by Fisher & Paykel Healthcare SAS*

**Chairs:** Gerard J. Criner (Philadelphia, United States of America), Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)

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<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Reference</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Physiological effects of humidified nasal high flow</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
<td>4846</td>
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<td>13:28</td>
<td>Nasal high-flow in hypercapnic patients</td>
<td>Jens Bräunlich (Leipzig, Germany)</td>
<td>4847</td>
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<td>13:41</td>
<td>Long-term effects of oxygen-enriched humidified Nasal High Flow therapy in COPD patients</td>
<td>Ulla Weinreich (Ålborg, Denmark)</td>
<td>4848</td>
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<td>13:54</td>
<td>Adherence and implementation of humidified Nasal High Flow for long term use in COPD Patients</td>
<td>Line Storgaard (Aabybro, Denmark)</td>
<td>4849</td>
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<td>14:07</td>
<td>Hands-on</td>
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### Terminal 7 Session 477 13:15 - 14:30

**Industry practical workshop: Portable PAP treatment 2.0: innovative technologies and connected care**  
*Organised by ResMed*

**Chairs:** Ramón Farré Ventura (Barcelona, Spain)

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<th>Time</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Travel PAP performance: matching the standards of conventional primary PAP devices</td>
<td>Ramón Farré Ventura (Barcelona, Spain)</td>
<td>4851</td>
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<td>13:35</td>
<td>Engagement and coaching – new technologies to help patient</td>
<td>Gregory Boyle (Martinsried, Germany)</td>
<td>4852</td>
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<tr>
<td>13:50</td>
<td>Hands-on session with AirMini</td>
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### 7.2A Session 478 13:15 - 14:30

**Industry practical workshop: Advances in respiratory care: Endobronchial ablation and Lung Volume Reduction**  
*Organised by Medtronic*

**Chairs:** Pallav L. Shah (London, United Kingdom)

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<th>Time</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Endobronchial Ablation Early Experience: Technology and case implications</td>
<td>Kelvin Lau (London, United Kingdom)</td>
<td>4855</td>
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<td>13:35</td>
<td>Monitoring during and after LVR: the essential requirements</td>
<td>Wolfgang Heinrich (Mainz, Germany)</td>
<td>4856</td>
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<td>13:55</td>
<td>Patient selection for LVRS beyond NETT</td>
<td>Walter Weder (Zürich, Switzerland)</td>
<td>4857</td>
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<tr>
<td>14:15</td>
<td>Q &amp; A</td>
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### 7.2C Session 479 13:15 - 14:30

**Industry practical workshop: Innovation in Airway Clearance: Discover the direct action of the Simeox technology on mucus rheology and the clinical impact on bronchial drainage**  
*Organised by Physio Assist*

**Chairs:** Jesus Gonzalez Bermejo (Montlignon, France),

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<td>Florence Danet (Rueil-Malmaison, France)</td>
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<td>Simeox clinical experience: the French perspective</td>
<td>Hughes Gauchez (Marcq-en-Baroeul, France)</td>
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<td>Simeox clinical experience: the German perspective</td>
<td>Thomas Hillmann (Essen, Germany)</td>
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<td>13:38</td>
<td>Simeox demonstration and hands-on</td>
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<td>Industry practical workshop: Endobronchial and Pleural Ultrasound Workshop</td>
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<td>13:15</td>
<td>EBUS-TBNA</td>
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<td>13:15</td>
<td>EBUS-MINI PROBE with Plastic Model</td>
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<td>13:15</td>
<td>EBUS-TBNA with Simbionix simulator</td>
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<td>Pleural Ultrasound by SonoSite</td>
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<td>Industry practical workshop: Transbronchial cryobiopsy</td>
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<td><strong>Chairs:</strong> Felix J.F. Herth (Heidelberg, Germany), Jürgen Hetzel (Tuebingen, Germany), Lonny Yarmus (Baltimore, United States of America)</td>
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<td>13:15</td>
<td>2. Clinical value of transbronchial cryobiopsy</td>
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<td>13:15</td>
<td>3. How to perform transbronchial cryobiopsy</td>
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<td>Lonny Yarmus (Baltimore, United States of America), Jürgen Hetzel (Tuebingen, Germany), Speaker to be confirmed</td>
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<td>13:35</td>
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<td>13:35</td>
<td>Jürgen Hetzel (Tuebingen, Germany), Lonny Yarmus (Baltimore, United States of America), Speaker to be confirmed</td>
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<td>Industry practical workshop: Medical Thoracoscopy</td>
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<td><strong>Chairs:</strong> Ralf Heine (Halle, Germany)</td>
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<tr>
<td>13:15</td>
<td>Presentation about Medical Thoracoscopy</td>
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<td>Industry evening symposium: Leaving a mark in asthma and COPD - Innovation Footprints in Respiratory Care</td>
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<td><strong>Chairs:</strong> Leonardo Michele Fabbri (Modena, Italy), Florence Schleich (Liège, Belgium)</td>
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<td>17:15</td>
<td>Envisioning the upcoming journey – Emergent trends shaping the future of chronic lung diseases</td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
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<td>17:45</td>
<td>Outlining a new dawn for COPD patients – From the roots of inflammation and obstruction in COPD to the latest therapeutic breakthroughs</td>
<td>Alberto Papi (Ferrara, Italy)</td>
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**Session 513  17:15 - 19:15**

**Industry evening symposium: Inflammation and Treatable Traits in COPD: How to Reconcile Strategy and Practice**  
*Organised by AstraZeneca PLC*

**Chairs**: Dave Singh (Manchester, United Kingdom)

- **17:15** Welcome and Introductions  
  Dave Singh (Manchester, United Kingdom)

- **17:25** Inflammation in COPD  
  Fernando J. Martinez (New York, United States of America)

- **17:50** Treatable Traits in COPD  
  Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

- **18:15** Recent Clinical Advances in COPD  
  Gary T. Ferguson (Farmington Hills, United States of America)

- **18:40** Panel Discussion and Audience Q&A

- **19:10** Meeting Close  
  Dave Singh (Manchester, United Kingdom)

7.3M  
**Session 514  17:15 - 19:15**

**Industry evening symposium: Anti-IL-5 treatment options for the severe eosinophilic asthma patient: Are they all the same?**  
*Organised by GSK*

**Chairs**: Marc Humbert (Paris, France)

- **17:15** Who is a candidate for anti-IL-5 therapy?  
  Marc Humbert (Paris, France)

- **17:30** Eosinophil functions and the role of IL-5  
  Peter H. Howarth (Southampton (Hampshire), United Kingdom)

- **17:50** What is the clinical profile of anti-IL-5 therapy in the severe eosinophilic asthma patient?  
  Brian Kent (London, United Kingdom)

- **18:15** What happens long term with IL-5 therapy?  
  Arnaud Bourdin (Montpellier Cedex 5, France)

- **18:35** Start or stop? Strategy for patient selection  
  Neil Martin (Leicester (Leicestershire), United Kingdom)

- **18:55** Q&A and Chair's close: Are they all the same?  
  Marc Humbert (Paris, France)

7.3P  
**Session 515  17:15 - 19:15**

**Industry evening symposium: Priorities and preferences: Does inhaler choice make a difference in COPD?**  
*Organised by Boehringer Ingelheim International GmbH*

**Chairs**: Daniel Dusser (Paris, France), David M. G. Halpin (Exeter Devon, United Kingdom)

- **17:15** Starting with our patients: What are the practical realities?  
  Daniel Dusser (Paris, France), David M. G. Halpin (Exeter Devon, United Kingdom)
### 7.2A Session 516 17:30 - 19:00

**Industry evening mini symposium: The Next Step in Disease Management from an Interventional Pulmonology Perspective: Focusing on Lung Nodules and Emphysema**

*Organised by Broncus Medical*

**Chairs:** Felix J.F. Herth (Heidelberg, Germany)

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<td>Felix J.F. Herth (Heidelberg, Germany)</td>
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<td>17:40</td>
<td>Bronchoscopic Thermal Vapor Ablation: Best Practice Recommendations from an Expert Panel on Endoscopic Lung Volume Reduction</td>
<td>Daniela Gompelmann (Heidelberg, Germany)</td>
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<td>17:55</td>
<td>Removal of Diseased Emphysematous Tissue with Bronchoscopic Thermal Vapor Ablation</td>
<td>Arschang Valipour (Wien, Austria)</td>
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<td>18:25</td>
<td>Seek and Destroy: Moving into Bronchoscopic Therapeutics</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
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<td>18:40</td>
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### 7.2B Session 517 17:30 - 19:00

**Industry evening mini symposium: Can the ESC/ERS Pulmonary Hypertension Guideline Targets be Achieved?**

*Organised by Merck & Co, Inc.*

**Chairs:** Carmine Dario Vizza (Roma (RM), Italy)

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<td>Assessing the mortality risk in PAH Patients</td>
<td>Chipps Bradley Elliott (Sacramento, United States of America)</td>
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<td>What to do when patients don’t reach the treatment goals?</td>
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<td>18:30</td>
<td>Interactive Discussion</td>
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### 7.2D Session 518 17:30 - 19:00

**Industry evening mini symposium: Novelties in ICS nebulization treatments**

*Organised by AstraZeneca PLC*

**Chairs:** Kevin Murphy (Omaha, United States of America), Nanshan Zhong (Guangzhou (Guangdong), China)

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<td>Systemic steroid overuse in children and adults: past or future?</td>
<td>Chipps Bradley Elliott (Sacramento, United States of America)</td>
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7.3W Session 519 17:30 - 19:00
Industry evening expert forum: Controversies in NTM lung disease - an interactive case discussion
Organised by Insmed Ireland Ltd.
Chairs: James D. Chalmers (Dundee (Angus), United Kingdom)

17:30 James D. Chalmers (Dundee (Angus), United Kingdom) 5124

17:30 Jakko van Ingen (Nijmegen, Netherlands) 5125

17:30 Claire Andrejak (Amiens, France) 5126

7.3X Session 520 17:30 - 19:00
Industry evening expert forum: Protection of Patients With Chronic Respiratory Diseases and Other Comorbid Conditions Against Pneumonia: Changing Paradigms
Organised by Pfizer
Chairs: Pierre-Régis Burgel (Sorbonne Paris Cité, France)

17:30 Welcome and Introduction
Pierre-Régis Burgel (Sorbonne Paris Cité, France) 5127

17:35 A Population at Risk: The Burden of Pneumonia in Patients With COPD and Other Risk Conditions
Gernot G.U. Rohde (Frankfurt am Main, Germany) 5128

17:55 Rethinking Pneumococcal Vaccination Strategies Based on Novel Data
Antoni Torres (Barcelona, Spain) 5129

18:25 Protecting Patients at Risk Against Pneumococcal Pneumonia: Threats, Weaknesses, and Opportunities
Abdullah Sayiner (Izmir, Turkey) 5130

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