## Pre-congress content
### Session 1 00:00 - 23:59

#### Year in review: Clinical year in review

**Aims**: To provide an overview of the most relevant advances in diagnosis and treatment of some of the most prevalent respiratory diseases; to present the most important studies published in the last 12 months about clinical aspects of COVID-19, chronic obstructive pulmonary disease (COPD), asthma and interstitial lung disease.

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

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

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

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>COVID-19: impact on respiratory patients and prevention</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
<tr>
<td>00:15</td>
<td>COPD: implementing biomarkers to improve prognosis</td>
<td>Miriam Barrecheguren Fernandez (Barcelona, Spain)</td>
</tr>
<tr>
<td>00:30</td>
<td>Severe asthma: classification and treatment</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>00:45</td>
<td>Interstitial lung disease: improving classification and prognosis</td>
<td>Luca Richeldi (Roma, Italy)</td>
</tr>
</tbody>
</table>

## Pre-congress content
### Session 2 00:00 - 23:59

#### Year in review: Paediatric year in review

**Aims**: To provide an update on four topics in paediatric respiratory medicine, namely, new developments in childhood interstitial lung diseases, COVID infections in children, paediatric sleep disordered breathing and the epidemiology of asthma; to highlight the most recent and significant literature and developments relating to these topics.

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

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

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

**Target audience**: Adult pulmonologist/Clinician, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Clinical researcher, Journalist

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>What’s new in interstitial lung diseases in children?</td>
<td>Steve Cunningham (Edinburgh (Scotland), United Kingdom)</td>
</tr>
<tr>
<td>00:15</td>
<td>Paediatric respiratory infections: COVID-19 in children</td>
<td>Elizabeth Whittaker (London, United Kingdom)</td>
</tr>
<tr>
<td>00:30</td>
<td>What’s new in paediatric sleep?</td>
<td>Kim Van Hoorenbeeck (Edegem (Antwerp), Belgium)</td>
</tr>
<tr>
<td>00:45</td>
<td>What’s new in the epidemiology of asthma?</td>
<td>Liesbeth Duijts (Rotterdam, Netherlands)</td>
</tr>
</tbody>
</table>

## Pre-congress content
### Session 3 00:00 - 23:59

#### Year in review: Scientific year in review

**Aims**: To cover four key areas that were of particular importance in basic and translational lung research in 2020 and relate to the 2020 Nobel Prize in Chemistry, the congress theme of digital health and COVID-19 diagnosis and vaccination.

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

**Method(s)**: Cell and molecular biology, Imaging, Respiratory intensive care

**Tag(s)**: Translational, COVID, Basic science

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist, Journalist

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>Lung-directed CRISPR/Cas9 gene editing</td>
<td>Patrick Harrison (Cork, Ireland)</td>
</tr>
</tbody>
</table>
The immune response to COVID-19
Lore Vanderbeke (Leuven, Belgium)

Artificial intelligence in pulmonary medicine
Danai Khemasuwan (Cleveland, United States of America)

COVID-19 mRNA vaccines: a step forward from traditional vaccines?
Marco Cavaleri (Amsterdam, Netherlands)

Pre-congress content Session 4 00:00 - 23:59
Professional development: Educational supervision at work: clinical performance assessment
Practical skills to implement in your institution
Aims: to help participants recognise the different types of workplace-based assessment, including the pros and cons of each assessment type, and the importance of reliability, validity, transparency, feasibility and educational impact; to explain how to overcome common problems related to the assessment process; to highlight the importance of faculty training. Please note that this content is not CME accredited, as it was part of a past ERS event.
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Nurse, General practitioner, Medical Student, Physician in Pulmonary Training
Chairs: Lars Konge (Virum, Denmark), Robert Primhak (Sheffield (South Yorkshire), United Kingdom)

00:00 Multi-source feedback tool: using coaching skills to give feedback
Robert Primhak (Sheffield (South Yorkshire), United Kingdom)

00:20 Assessment of procedural skills DOPS & OSATS
Lars Konge (Virum, Denmark)

00:40 Case based discussion as a formative assessment tool
Neil Gibson (Glasgow (Glasgow), United Kingdom)

Pre-congress content Session 5 00:00 - 23:59
Professional development: End of life care for the elderly asthmatic and COPD patients
Aims: to help the physicians 1) predict the natural course of an advanced disease in patients with asthma and COPD, and 2) develop a plan for palliative care and manage dyspnoea in terminally ill patients. Please note that this content is not CME accredited, as it was part of a past ERS event.
Disease(s): Airway diseases
Method(s): Palliative care General respiratory patient care
Tag(s): Clinical
Target audience: Respiratory critical care physician, General practitioner, Medical Student, Patient, Physician in Pulmonary Training, Adult pulmonologist/Clinician
Chairs: Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)

00:00 Detection of advanced disease, advance care planning and recognition of dying for people with COPD
Joan Escarrabill Sanglas (Barcelona, Spain), Andras Bikov (Budapest, Hungary)

00:20 Should patients with life-threatening severe asthma be intubated?
Gennaro D'Amato (Napoli (NA), Italy)

00:40 Symptom management at the end of life
Miriam Barrecheeguren Fernandez (Barcelona, Spain)

01:00 End-stage respiratory diseases and respiratory support
Stefano Nava (Bologna (BO), Italy)

Pre-congress content Session 7 00:00 - 23:59
Experts view: Smoking and COVID-19 – what have we learned?
ERS VISION: panel discussion video
Aims: A panel of experts will discuss key areas, including: 1) evidence for increased susceptibility of smokers to COVID-19; 2) COVID-19 and the interference of the tobacco industry; 3) Smoking cessation – perspectives from low- and middle-income countries. Please note that this content is not CME accredited, as it was part of a past ERS event.
<table>
<thead>
<tr>
<th>Disease(s) :</th>
<th>Respiratory infections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method(s) :</td>
<td>Epidemiology  Public health  General respiratory patient care</td>
</tr>
<tr>
<td>Tag(s) :</td>
<td>COVID, Translational</td>
</tr>
<tr>
<td>Target audience :</td>
<td>Adult pulmonologist/Clinician, Medical Student, General practitioner, Physician in Pulmonary Training</td>
</tr>
<tr>
<td>Chairs :</td>
<td>Jonathan Grigg (London, United Kingdom), Linnea Hedman (Luleå, Sweden)</td>
</tr>
</tbody>
</table>

**Pre-congress content**  
**Session 8**  
00:00 - 23:59

Experts view: Performing cardiopulmonary exercise testing in the COVID-19 era

Method(s) : Pulmonary function testing

Tag(s) : COVID, Clinical

Chairs : Rebekah Anstey (Cardiff, United Kingdom)

00:00  Performing cardiopulmonary exercise testing in the COVID-19 era

William Stringer (Long Beach, United States of America), Afroditi Boutou (Thessaloniki, Greece)

**Pre-congress content**  
**Session 9**  
00:00 - 23:59

Experts view: Respiratory physiology

Aims : To describe the parameters measured by oscillometry; To explain the physiological significance of the parameters measured by oscillometry; To contrast the information provided by oscillometry and by conventional pulmonary function testing.

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

Tag(s) : Clinical, Translational

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory therapist, Scientist (basic, translational)

Chairs : Natalia Belousova (Toronto, Canada)

00:00  Respiratory physiology

Christina M. Spengler (Zürich, Switzerland), Sam Bayat (Grenoble, France)

**Pre-congress content**  
**Session 11**  
00:00 - 23:59

Experts view: Utilising data from single cell approaches to study existing and recently emerging lung diseases

Method(s) : Cell and molecular biology

Tag(s) : Basic science, Translational

Chairs : Mareike Lehmann (München, Germany)

00:00  Utilising data from single cell approaches to study existing and recently emerging lung diseases

Martijn C. Nawijn (Groningen, Netherlands), Kerstin Meyer (Cambridge, United Kingdom)

**Pre-congress content**  
**Session 12**  
00:00 - 23:59

Experts view: Digital health surveillance in the thoracic surgery pathway

Method(s) : Surgery

Tag(s) : Digital health

Chairs : Sara Ricciardi (Bologna, Italy)

00:00  Digital health surveillance in the thoracic surgery pathway

Babu Naidu (Solihull (West Midlands), United Kingdom), Cecilia Pompili (Leeds, United Kingdom)

**Pre-congress content**  
**Session 13**  
00:00 - 23:59

Experts view: Biomarkers in early-detection of lung cancer: current concepts

Aims : To give an update on the status of biomarkers in the context of lung cancer screening. To identify challenges and pitfalls of biomarkers.
### Pre-congress content  Session 14  00:00 - 23:59

**Experts view: Pulmonary hypertension and interstitial pulmonary fibrosis**

**Aims:**
To understand how to diagnose PH, and its pulmonary complications; to know which treatments to use for PH related lung disease; to understand the indications for PH augmentation.

**Chairs:**
Catharina Moor (Rotterdam, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>Pulmonary Hypertension and IPF</td>
<td>Vincent Cottin (Lyon, France), Katerina Antoniou (Heraklion, Greece)</td>
</tr>
</tbody>
</table>

### Pre-congress content  Session 15  00:00 - 23:59

**Experts view: Alpha 1 - antitrypsin deficiency: diagnosis and treatment**

**Aims:**
To understand how to diagnose AATD, and its pulmonary complications; to know which treatments to use for AATD related lung disease; to understand the indications for AAT augmentation.

**Chairs:**
Miriam Barrecheguren Fernandez (Barcelona, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>Alpha 1 - antitrypsin deficiency: diagnosis and treatment</td>
<td>Alice Turner (Birmingham (West Midlands), United Kingdom), Ilaria Ferrarotti (Pavia (PV), Italy)</td>
</tr>
</tbody>
</table>

### Pre-congress content  Session 16  00:00 - 23:59

**Experts view: Hospital at home for the management of COVID-19**

**Aims:**
To provide an overview of alternatives to conventional hospitalization and continuous monitoring of patients after hospital discharge, with the aim of alleviating hospitals during the COVID-19 pandemic and increasing the resilience of healthcare systems.

**Chairs:**
Joana Cruz (Leiria, Portugal)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>Hospital at home for the management of COVID-19</td>
<td>Carme Hernandez Carcereny (Barcelona, Spain), Louise Brien (Ashbourne, Ireland)</td>
</tr>
</tbody>
</table>

### Pre-congress content  Session 17  00:00 - 23:59

**Experts view: Virtual/multimodal education, communication skills**

**Aims:**
To examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021 panel discussion.

**Chairs:**
Anita Simonds (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>Hospital at home for the management of COVID-19</td>
<td>Carme Hernandez Carcereny (Barcelona, Spain), Louise Brien (Ashbourne, Ireland)</td>
</tr>
</tbody>
</table>
### Pre-congress content

#### Session 18

**Aims:** to examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021, ‘Digital respiratory medicine – realism vs futurism’, discussing innovations in digital health. Please note that this content is not CME accredited, as it was part of a past ERS event.

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

**Tag(s):** Digital health

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Nurse, Patient, Respiratory physiotherapist, Physician in Pulmonary Training, Medical Student, Physiologist

**Chairs:** Tamsin Rose (, United Kingdom)

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter and Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital home resources in clinical trial management</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
<td>35</td>
</tr>
<tr>
<td>How can digital health drive value based healthcare?</td>
<td>Jim Hollingshead (San Diego, United States of America)</td>
<td>36</td>
</tr>
<tr>
<td>Addressing digital exclusion</td>
<td>Kjeld Hansen (Oslo, Norway)</td>
<td>37</td>
</tr>
<tr>
<td>Digital health and data use</td>
<td>Michael Strübin (, Belgium)</td>
<td>38</td>
</tr>
</tbody>
</table>

#### Session 19

**Aims:** to examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021, ‘Digital respiratory medicine – realism vs futurism’, discussing artificial intelligence and big data. Please note that this content is not CME accredited, as it was part of a past ERS event.

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

**Tag(s):** Digital health

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist

**Chairs:** Anita Simonds (London, United Kingdom)

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter and Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision Support Systems and patient management</td>
<td>Wim Vos (Liege, Belgium)</td>
<td>39</td>
</tr>
<tr>
<td>Harnessing big data for evaluation and regulation of medicines</td>
<td>Luis Correia Pinheiro (London, United Kingdom)</td>
<td>40</td>
</tr>
<tr>
<td>Digital advances in disease surveillance and extended remit of ECDC</td>
<td>Pasi Penttinen (Stockholm, Sweden)</td>
<td>41</td>
</tr>
</tbody>
</table>

#### Session 21

**Aims:** to examine the current digital tools that can be used in respiratory healthcare. The part of European Respiratory Society Presidential Summit 2021, ‘Digital respiratory medicine – realism vs futurism’, discussing artificial intelligence and big data. Please note that this content is not CME accredited, as it was part of a past ERS event.

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

**Tag(s):** Digital health

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist

**Chairs:** Anita Simonds (London, United Kingdom)

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter and Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital advances in disease surveillance and extended remit of ECDC</td>
<td>Pasi Penttinen (Stockholm, Sweden)</td>
<td>41</td>
</tr>
</tbody>
</table>
Aims: To recite the findings of an ERS/EAACI task force that: 1) Evaluated the understanding of and adherence to international asthma guidelines by health professionals of different specialties; 2) Assessed the effectiveness of strategies aimed at improving implementation of guideline recommendations; and 3) Compared guidelines adherence and treatment outcomes in patients managed by specialists (respiratory physicians or allergists) or generalists (internists or general practitioners); to identify the clinical benefits of optimal adherence to adult asthma clinical practice guidelines and will describe the most effective methods for achieving optimal adherence in different treatment settings, including multifaceted quality improvement projects and standardized pathways and thresholds for referral for specialist input.

Disease(s): Airway diseases

Method(s): Epidemiology  Public health  Pulmonary function testing

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training

00:00  ERS/EAACI statement on adherence to international adult asthma guidelines
        Alexander Mathioudakis (Stockport, United Kingdom)
Assembly members' meeting: Assembly 9: Allied respiratory professionals

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Martijn A. Spruit (Horn, Netherlands), Daniel Langer (Leuven, Belgium), Chris Burtin (Diepenbeek, Belgium), Andreja Sajnic (Zagreb, Croatia), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Joana Cruz (Leiria, Portugal), Rachel Ong-Salvador (Amsterdam, Netherlands)
<table>
<thead>
<tr>
<th>No Room</th>
<th>Session 23</th>
<th>15:30 - 16:30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assembly members' meeting: Assembly 6: Epidemiology and environment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aims:</strong> To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Joan B Soriano (Madrid, Spain), Rafael E. de la Hoz (New York, United States of America), Elif Dagli (Istanbul, Turkey), Orianne Dumas (Villejuif, France)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Assembly members' meeting: Assembly 13: Pulmonary vascular diseases

**Aims**: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

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

**Chairs**: Marion Delcroix (Leuven, Belgium), Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France), David Jiménez Castro (Madrid, Spain), Mona Lichtblau (Zürich, Switzerland)
No Room  Session 25  13:30 - 14:30
Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

Chairs: Stefano Elia (Roma (RM), Italy), Federica Meloni (Pavia (PV), Italy), Merel Hellemons (Rotterdam, Netherlands), Marcello Migliore (Catania (CT), Italy), Robin Vos (Leuven, Belgium), Kalliopi Athanassiadi (Athens, Greece), Michael Perch (Gentofte, Denmark)

No Room  Session 26  15:30 - 16:30
Assembly members' meeting: Assembly 4: Sleep disordered breathing

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

Disease(s): Sleep and breathing disorders

Chairs: Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Basel, Switzerland), Dries Testelmans (Leuven, Belgium), Johan Verbraecken (Edegem (Antwerp), Belgium), Manuel Sanchez De La Torre (Lleida, Spain), Matteo Siciliano (Roma (RM), Italy), Marta Susana Monteiro Drummond Freitas (Maia, Portugal)
### Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Walter De Wever (Leuven, Belgium), Prashant Nemichand Chhajed (Mumbai, India), Christian B. Laursen (Odense, Denmark), Daniela Gompelmann (Vienna, Austria), Adám Domonkos Tárnoki (Budapest, Hungary)

### Assembly members' meeting: Assembly 3: Basic and translational sciences

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

**Chairs:** Catherine Greene (Dublin 9, Ireland), Silke Meiners (Sülfeld, Germany), Aurelie Fabre (Dublin 4, Ireland), H. Irene Heijink (Groningen, Netherlands), Agnes Boots (Maastricht, Netherlands), Niki Ubags (Epalinges, Switzerland), Niki L. Reynaert (Maastricht, Netherlands)
### No Room  
#### Session 29  
13:30 - 14:30  

**Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology**

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Hilary Pinnock (Edinburgh, United Kingdom), Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Laura Fregonese (London, United Kingdom), Guido Vagheggini (Volterra (PI), Italy), Janwillem W. H. Kocks (Groningen, Netherlands), Vitalii Poberezhets (Vinnytsia, Ukraine), Sam Bayat (Grenoble, France), Frits M.E. Franssen (Horn, Netherlands), Lowie G.W. Vanfleteren (Gothenburg, Sweden)

### No Room  
#### Session 30  
15:30 - 16:30  

**Assembly members' meeting: Assembly 12: Interstitial lung diseases**

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

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

**Chairs:** Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany), Elisabetta Renzoni (London, United Kingdom), Hilario Nunes (Bobigny, France), Francesco Bonella (Düsseldorf, Germany), Tiago Alfaro (Coimbra, Portugal)
Session 33 13:30 - 14:30
Assembly members' meeting: Assembly 2: Respiratory intensive care

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

Disease(s): Respiratory critical care

Chairs: Leo Heunks (Amsterdam, Netherlands), Marcus Schultz (Amsterdam, Netherlands), Christian Karagiannidis (Cologne, Germany), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Maxime Patout (Mont-Saint Aignan, France), Ignacio Martin-Loeches (Dublin, Ireland), Marieke L. Duiverman (Groningen, Netherlands)

Session 34 15:30 - 16:30
Assembly members' meeting: Assembly 7: Paediatrics

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.

To register to attend this meeting, please use this Zoom webinar link

Disease(s): Paediatric respiratory diseases

Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Sejal Saglani (London, United Kingdom), Stojka Fustik (Skopje, North Macedonia), Marijke Proesmans (Leuven, Belgium), Theodore Dassios (London, United Kingdom), Liesbeth Duijts (Rotterdam, Netherlands), Dirk Schramm (Düsseldorf, Germany), Rory Morty (Heidelberg, Germany), Cristina Ardura-Garcia (Bern, Switzerland), Sharon Dell (Vancouver, British Columbia, Canada)
No Room  Session 35  13:30 - 14:30
Assembly members' meeting: Assembly 5: Airway diseases, asthma, COPD and chronic cough
Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend, please use this Zoom webinar link
Disease(s): Airway diseases
Chairs: Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Dave Singh (Manchester, United Kingdom), Florence Schleich (Liège, Belgium), Marco Idzko (Wien, Austria), Carolina Maria Gotera Rivera (Madrid, Spain), Antonio Spanevello (Milan, Italy)

No Room  Session 36  15:30 - 16:30
Assembly members' meeting: Assembly 10: Respiratory infections
Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link
Disease(s): Respiratory infections
Chairs: Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Cristina Calarasu (Craiova (Dolj), Romania), Michael Loebinger (London, United Kingdom), Alberto Garcia-Basteiro (Maputo, Mozambique)

No Room  Session 37  18:00 - 19:00
Assembly members' meeting: Assembly 11: Thoracic oncology
Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link
Disease(s): Thoracic oncology
Chairs: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Torsten Gerriet Blum (Berlin, Germany), Rudolf M. Huber (Munich, Germany), Najib M. Rahman (Oxford, United Kingdom), Adrien Costantini (Paris, France)
Channel 1  
**Session 40**  
09:30 - 11:30

**Language session: French programme 2021**

A joint ERS/SPLF session

**Aims:** This programme will be available in French.

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

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

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

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, Physiologist, Respiratory physiotherapist, Thoracic oncologist, Respiratory therapist

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Chantal Raherison-Semjen (Pessac, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td><strong>Introduction</strong></td>
<td></td>
</tr>
<tr>
<td>09:35</td>
<td>Thermoplastie bronchique : indications actuelles / Asthma thermoplasty: current indications</td>
<td>Guibert Nicolas (Toulouse, France)</td>
</tr>
<tr>
<td>10:05</td>
<td>Où en est-on dans la prise en charge de la Covid en septembre 2021 ? / Management of COVID-19: where are we ?</td>
<td>Claire Andrejak (Amiens, France)</td>
</tr>
<tr>
<td>10:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
<tr>
<td>10:33</td>
<td>Microbiote et cancer bronchique: l'exemple de l'immunothérapie / Microbiota and lung cancer: an example of immunotherapy</td>
<td>Lisa Derosa (, France)</td>
</tr>
<tr>
<td>10:48</td>
<td>Pneumopathies infiltrantes diffuses sous immunothérapie / Interstitial lung diseases and immunotherapy</td>
<td>Jacques Cadranel (Paris Cedex 20, France)</td>
</tr>
<tr>
<td>11:03</td>
<td>Exacerbation aiguë de la fibrose pulmonaire idiopathique: ce qu'il ne faut plus faire et ce qu'il reste à faire. / Acute exacerbation of idiopathic pulmonary fibrosis: what should not be done and what remains to be done?</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>11:18</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Channel 2  
Session 41  
09:30 - 11:00**

**Joint session: Vaccination and infections**

ERS/Industry joint session supported by GSK and Janssen

**Aims:** COVID 19 has demonstrated the importance of infection diseases in terms of morbidity and mortality, especially for people with chronic respiratory diseases. Vaccination is the most important preventive measure against this. Many vaccinations are recommended in our guidelines worldwide. Even so, vaccination rates are still low. The aim of this symposium is to present the current status in the development of various vaccines and thus move the importance of vaccination more into the focus of care for respiratory patients. SARSCorona2 as the new, influenza as the classic and pertussis infectious disease as the forgotten will be presented in this symposium. The current standing of vaccination and the development of vaccines for this will be reportedd. Strategies to increase vaccination rates will be discussed.
Disease(s) : Respiratory infections
Tag(s) : COVID, Clinical
Target audience : Adult pulmonologist/Clinician, Physician in Pulmonary Training, Respiratory critical care physician, Clinical researcher
Chairs : Tobias Welte (Hannover, Germany)

09:30  Introduction
Tobias Welte (Hannover, Germany)  67

09:35  COVID 19 vaccination
Leif Erik Sander (Berlin, Germany)  68

09:55  New Influenza vaccines
Tobias Welte (Hannover, Germany)  69

10:15  New pertussis vaccine
António Jaime Correia De Sousa (Porto, Portugal)  70

10:30  Discussion and Q&A
Tobias Welte (Hannover, Germany), Leif Erik Sander (Berlin, Germany), António Jaime Correia De Sousa (Porto, Portugal)  71

Channel 3  Session 42  09:30 - 11:00

Oral presentation: Highlights for primary care in 2021
Aims : This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
This session includes the Best Abstract for Assembly 1 - Respiratory clinical care and physiology, entitled "Inhaled budesonide in the treatment of early COVID-19 illness: a randomised controlled trial"

Disease(s) : Airway diseases
Method(s) : General respiratory patient care  Epidemiology  Public health
Chairs : Janwillem W. H. Kocks (Groningen, Netherlands), Hanna Sandelowsky (Vendelso, Sweden)

OA72  Introduction

OA73  Prioritising respiratory research needs in primary care: results from the International Primary Care Respiratory Group (IPCGR) global e-Delphi exercise

OA74  Trends in asthma incidence in children: a UK population-based cohort study
Constantinos Kallis (London, United Kingdom), Ann Morgan, Ekaterina Maslova, Ralf Van Der Valk, Trung N Tran, Ian P Sinha, Graham Roberts, Jennifer K Quint

OA75  A clinical prediction model to support asthma diagnosis in children and young people in UK primary care
Luke Daines (Edinburgh (Edinburgh), United Kingdom), Laura Bonnett, Holly Tibble, Andy Boyd, Steve Turner, Steff Lewis, Aziz Sheikh, Hilary Pincock

OA76  Greenhouse gas emissions associated with asthma care in the UK: results from SABINA CARBON
Alexander Wilkinson (Hertfordshire, United Kingdom), Alexander Wilkinson, Ekaterina Maslova, Christer Janson, Vasanth Radhakrishnan, Jennifer K Quint, Nigel Badgen, Trung N Tran, John P Bell, Andrew Mzens-Gow

OA77  Effectiveness of a pharmacist-led inhalation technique intervention on asthma and COPD patients: The INSpira cluster-randomized controlled trial
António T. Rodrigues (Lisbon, Portugal), Sónia Romano, Mariana Romão, Carolina Bulhosa, Débora Figueira, Jose Alves

OA78  Cost-effectiveness of single- vs multiple-inhaler triple therapy in a UK COPD population: INTREPID trial
Soham Shukla (KING OF PRUSSIA, United States of America), Robyn Kendall, Soham Shukla, Alan Martin, Dhvani Shah, Dawn Midwinter, Isabelle Boucot, Nancy A. Risebrough, Paul Jones, Chris Compton, Afisi Ismaila

OA79  Perception of general practitioners for e-cigarettes as a smoking cessation aid: systematic review
Melis Selamoğlu (Melbourne, Australia), Bircan Erbas, Chris Barton
Late Breaking Abstract - Impact of maintenance and reliever therapy (MART)-focused asthma guideline on SABA prescriptions

Michael Crooks (East Riding of Yorkshire, United Kingdom), Lucia Crowther, Helena Cummings, Judith Cohen, Chao Huang, Alyn Morice, Shoaib Faruqi, Jack Birchall, Yang Xu, Tamsin Morris

Late Breaking Abstract - Factors associated with health-status of COPD patients on Dry Powder Inhaler (DPI) maintenance therapy


Discussion
All Speakers

OA83 Introduction

Sabina A. Guler (Bern, Switzerland), Ilena Müller, Marco Mancinetti, Pierre-Olivier Bridevaux, Marin Brutsche, Christian Clarenbach, Christian Garzoni, Alexandra Lenour, Bruno Naccinti, Sebastian R. Ott, Lise Piquilloud, Maura Prella, Yok-Ai Que, Paola Soccal, Christophe Von Garner, Thomas Geiser, Manuela Funke-Chambour

OA85 Persistent abnormalities on echocardiography post hospitalization for COVID-19
Bavithra Vijayakumar (thame (Oxfordshire), United Kingdom), James Tonkin, Pallav L Shah

OA86 COVID-19: Is pulmonary damage present after 10 weeks follow-up?
Nienke Paternotte (Alkmaar, Netherlands), Ludmilla Messer, Willemien Thijs, Ella Van Den Hout, Suat Simsek, Astrid Aardenburg - Van Huisstede, Wim Boersma

OA87 COVID-19 in young and middle aged adults. Predictors of poor evolution and clinical differences.
Eva Taberner Huguet (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Leire Serrano Fernandez, Pedro Pablo España Yandiola, Raul Mendez, Borja Santos Zorroza, Ane Uranga Echeverria, Paula Gonzalez Jimenez, Patricia Garcia Hontoria, Rosario Menendez Villanueva, Rafael Zalacain Jorge

OA88 Prospective six months follow-up analysis of the serological response to SARS-CoV-2 in a cohort of patients admitted for COVID-19 pneumonia
Miguel Angel Garcia (Terrassa, Spain), Roser Costa Solà, Bienvenido Barreiro López, Gemma Grau Gome, Angels Jaén Manzanares, Emma Padilla Esteba, Jose Sanz Santos, Lluis Esteban Tejero, Loures Lozano Bailén, Ana Maria Lapuente Torrents, Mireia Martinez Palau, Bruno Garcia Cabo, Teodora Pribic, Ester Martinez Del Pozo, Xavier Martinez Laca

OA89 Impact of persistent D-Dimer elevation following recovery from COVID-19
Antje Lehmann (Wien, Austria), Helmut Prosch, Sonja Zehetmayer, Maximilian Robert Gysan, Marco Idzko, Daniela Gompelmann

OA90 Severe COVID-19 pneumonia: clinical, functional, and imaging outcomes at 4 months
Thibault Viatgé (Toulouse, France), Elise Noel-Savina, Guillaume Faviez, Benoit Lepage, Laurent Mhanna, Sandrine Pontier, Marion Dupuis, Samia Collot, Pascal Thomas, Jon Idoate Lecasas, Laure Crognier, Sihem Bouharoua, Stein Silva Sifontes, Julien Mazieres, Grégoire Prevot, Alain Didier
Clinical-radiological and functional follow-up of pulmonary sequelae after COVID-19
Ana Belén Llanos-González (La Orotava, Spain), Juan Alfonso Bonilla Arjona, Héctor Manuel González Expósito, Verónica S. Hernández García, Marta Gómez Gil, Paula Pérez De Armas, Nelson Mesa León, Daniel Luis Redondo Zaera, María Mercedes Cruz Fernández, Agustín Medina González, Orlando Acosta Fernández

Late Breaking Abstract - Post-Covid-19 fatigue and its associations with health status: long-term follow-up
Zjala Ebadi (Groesbeek, Netherlands), Jeanettte Peters, Bram Van Den Borst, Jan Vercoulen

Discussion
All Speakers

OA95 Introduction

Gestational phthalate exposure and lung function in childhood in the INMA cohorts
Magda Bosch De Basea Gómez (Barcelona, Spain), Maribel Casas, Anne-Elie Carsin, Raquel Soler, Natalia Martin, Alicia Abellan, Jordi Sunyer, Jesús Ibarluzea, Aitana Lertxundi, Martine Vrijheid, Judith Garcia-Aymerich

The knowledge of pulmonologists and patients with respiratory diseases about the impact of air pollution on health
Tadeusz M. Zielonka (Warszawa, Poland)

Air pollution exposure and airflow obstruction development in the Dutch population-based Lifelines cohort
Dimitra Sifaki-Pistolla (Heraklion, Greece), Judith M. Vonk, Ioanna Tsiligianni, Marco Viveen, Rob Willems, Debby Bogaert, Helen L. Leavis, Lidwien A.M. Smit

The oropharyngeal microbiome of COPD patients and controls in a livestock dense area
Warner van Kersen (Utrecht, Netherlands), Alex Bosser, Wouter A.A. De Steenhuijsen Piters, Myrna M.T. De Rooij, Marieke Oldenwening, Marc Bonten, Ad C. Fluit, Dick Heederik, Fernanda L. Paganeli, Malbert Rogers, Marco Viveen, Rob Willems, Debby Bogaert, Helen L. Leavis, Lidwien A.M. Smit

Long-term air pollution exposure, greenness and health-related quality of life (HRQOL) in ECRHS
Valerie Siroux (La Tronche, France), Anne Boudier, Ivan Markeyech, Bénédicte Jacquemin, Michael J. Abramson, Simone Accordini, Bertil Forsberg, Elaine Fuertes, Judith Garcia-Aymerich, Joachim Heinrich, Ane Johansen, Bénédicte Leynaert, Isabelle Pin

Diary–reported symptoms, medication use, and peak expiratory flow (PEF) in an asthma panel in two Swedish cities
Hanne Krage Carlsen (Gothenburg, Sweden), Anneli Behndig, Susanna Lohman-Haga, Lars Modig, Anna-Carin Olin

Carbon footprint of severe asthma exacerbation management relative to Breezhaler dry powder inhaler
Kai Michael Beeh (Wiesbaden, Germany), Simon Aumonier, Andy Whiting, Brett Fulford, Karen Mezzi

Effects of ambient temperature on COPD symptoms and exacerbations in the SubPopulations and INTermediate Outcome Measures In COPD Study (SPIROMICS) cohort
Supaksh Gupta (Seattle, United States of America), Coralyne Sack, Laura Paulin, Amanda Gassett, Clifford Sung, Jeremy Hess, Prescott Woodruff, Mark Dransfield, Robert Paine, Igor Barjaktarevic, Alejandro Cornellas, Maryam Karimi, Cheryl Pirozzi, Victor Ortega, Wassim Labaki, Surya Bhatt, Nadia Hansel, Joel Kaufman

Ultrafine particles in airways during COVID-19 lockdown
Einat Fireman Klein (HAIFA, Israel), Yotam Elimelech, Lana Majdoub, Yochai Adir, Yochai Adir, Michal Shteinberg

Late Breaking Abstract - Preliminary results in differences between elderly COPD patients admitted in a COVID-19 free respiratory ward before and during the pandemic.
Konstantinos Dodos (Athens, Greece), Vasileia Kalamara, Konstantinos Stamopoulos, Paraskevi Kavoura, Kallirroi Lambrou

Discussion
All Speakers
Symposium: Repair and regeneration in chronic lung disease and lung cancer
Reflections from the LSC 2021 conference

Aims: To reflect on the Lung Science Meeting of 2021, providing some of the highlights at the main ERS meeting. The aims of the Lung Science meeting were threefold: to present the very best of international lung science research; to highlight new discoveries likely to impact on the future of respiratory medicine, and; to encourage debate and interaction between young postdoctoral scientists and established investigators.

Disease(s): Airway diseases, Interstitial lung diseases, Thoracic oncology

Method(s): Cell and molecular biology

Tag(s): Basic science, Translational

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

Chairs: Reinoud Gosens (Groningen, Netherlands), Silke Meiners (Sülfeld, Germany)

09:30 Introduction

09:35 Club cells in adenocarcinoma and alveolar repair
Georgios Stathopoulos (Munich, Germany)

09:50 Cell-matrix interactions in chronic lung disease
Janette K. Burgess (Groningen, Netherlands)

10:05 The host response to decellularised lung extracellular matrix reinforces bioinks for 3D bioprinting of lung tissue for transplantation
Martina M. De Santis (Lund, Austria)

10:20 Mesenchymal stem cell therapy for severe emphysema
Pieter S. Hiemstra (Leiden, Netherlands)

10:35 Discussion and Q&A
All Speakers

State of the art session: Airway diseases
Are recent clinical advances leading to controversies in airway diseases?

Aims: To evaluate the use of short-acting -2 agonist (SABA) monotherapy versus maintenance and reliever therapy (MART) and triple therapy for asthma; to describe new treatments for chronic cough; to determine the optimal endoscopic procedure for different patients with chronic obstructive pulmonary disease (COPD) and asthma; to discuss the role of artificial intelligence in asthma and COPD treatment.

Disease(s): Airway diseases

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

Tag(s): Clinical, Digital health

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training

Chairs: Omar S. Usmani (London, United Kingdom), Ay e Arzu Yorganc o lu (Konak, Turkey)

09:30 Introduction

09:35 How to treat asthma in 2021? Goodbye SABA, hello MART and welcome triple therapy
Alberto Papi (Ferrara, Italy)

09:50 New treatments for chronic cough
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

10:05 Which endoscopic procedure to use and in what patient? Valves, coils, foam and heat in COPD and asthma
Lee Pyng (Singapore, Singapore)

10:20 Will artificial intelligence really transform clinical practice? Applications in asthma and COPD
Konstantinos Kostikas (Ioannina, Greece)

10:35 Discussion and Q&A
All Speakers
## Studio London  
### Session 47  
### 09:30 - 11:00

### Symposium: New developments in mechanical ventilation and ventilator weaning

**Aims:** To describe global variation in ventilator weaning strategies and outcomes; to list at least three key principles of invasive ventilation in patients with severe chronic obstructive pulmonary disease (COPD); to define lung and diaphragm protective ventilation and to list at least three diagnostic tools (and reference values) for delivering such ventilation; to define machine learning; to summarise realistic expectations for the role of machine learning in mechanical ventilation.

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

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

**Tag(s):**  
Clinical

**Target audience:**  
Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs:**  
Leo Heunks (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>09:35</td>
<td>Patient's perspective</td>
<td>Olivia Fulton (Edinburgh (Edinburgh), United Kingdom)</td>
</tr>
<tr>
<td>09:40</td>
<td>Epidemiology and geographical variation in ventilator weaning</td>
<td>John Laffey (Galway, Ireland)</td>
</tr>
<tr>
<td>09:55</td>
<td>Personalised mechanical ventilation and weaning in patients with COPD</td>
<td>Lise Piquilloud (Lausanne, Switzerland)</td>
</tr>
<tr>
<td>10:10</td>
<td>Lung and diaphragm protective ventilation</td>
<td>Katerina Vaporidi (Heraklio, Greece)</td>
</tr>
<tr>
<td>10:25</td>
<td>The impact of machine learning on mechanical ventilation in critically ill patients</td>
<td>Lucas Fleuren (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>10:40</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

## Studio Munich  
### Session 48  
### 09:30 - 11:00

### Symposium: Holistic care in interstitial lung disease: monitoring the patient’s pathway

**Aims:** to explain the issues associated with monitoring patients with idiopathic pulmonary fibrosis at home during the COVID-19 pandemic; to describe rapidly evolving changes in clinical practice for patients with pre-existing respiratory problems especially interstitial lung disease (ILD) and idiopathic pulmonary fibrosis, including methods initially developed to provide medical access for patients in remote areas and patients who cannot be seen in person; to describe the appropriateness and limitations of telemedicine; to discuss the clinical utility of home spirometry, monitoring of oxygenation using patients’ own pulse oximetry devices, the potential utility of measuring forced vital capacity using handheld spirometry devices for assessing the severity of a patient’s disease status in their home and the assessment of overall physical activities in a patient’s home.

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

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

**Tag(s):**  
Clinical, COVID, Digital health

**Target audience:**  
Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Physician in Pulmonary Training, Respiratory physiotherapist

**Chairs:**  
Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>09:35</td>
<td>Telemedicine: maintaining quality during times of transition</td>
<td>Ganesh Raghu (Seattle, United States of America)</td>
</tr>
<tr>
<td>09:50</td>
<td>Home monitoring: prognosis, benefits and pitfalls</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
</tr>
<tr>
<td>10:05</td>
<td>Living well with pulmonary fibrosis: new insights</td>
<td>Elisabeth Bendstrup (Aarhus N, Denmark)</td>
</tr>
<tr>
<td>10:20</td>
<td>Patient-centred medicine in ILDs: towards a holistic approach</td>
<td>Anne-Marie Russell (Taunton, United Kingdom)</td>
</tr>
</tbody>
</table>
Lungs on fire: LoF Paediatric respiratory diseases

Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

Disease(s): Paediatric respiratory diseases

Tag(s): Clinical

Target audience: Paediatrician, General practitioner, Physician in Pulmonary Training, Clinical researcher, Nurse, Thoracic oncologist, Radiologist, Respiratory physiotherapist, Respiratory therapist

Chairs: Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland), Jonathan Grigg (London, United Kingdom)

Discussants: Monika Gappa (Düsseldorf, Germany)

09:30 Introduction
09:35 Presentation of cases by the session facilitator
Monika Gappa (Düsseldorf, Germany)

Case 1 - Author: Rachael Marpole, Australia

Case 2 - Author: Tugba Ramasi Gursoy, Turkey

Case 3 - Author: Marita Antoniadi, Greece

Case 4 - Author: Tugba Ramasi Gursoy, Turkey

10:55 Session wrap-up

Channel 6 Session 50 09:30 - 11:00

Oral presentation: All about pulmonary arterial hypertension

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Pulmonary vascular diseases Respiratory critical care

Method(s): General respiratory patient care Pulmonary function testing Physiology Transplantation Cell and molecular biology

Chairs: Nazzareno Galié (Bologna (BO), Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)

OA139 Introduction

OA140 PULSAR open-label extension: interim results from a phase 2 study of the efficacy and safety of sotatercept when added to standard of care for the treatment of pulmonary arterial hypertension (PAH)
Marius M. Hoeper (Hannover, Germany), David Badesch, Simon Gibbs, Mardi Gomberg-Maitland, Marius Hoeper, Vallerie Mclaughlin, Ioana Preston, Rogerio Souza, Aaron Waxman, Solaiappan Manimaran, Jennifer Barnes, Janethe De Oliveira Pena, Marc Humbert

OA141 Risk stratification in patients with pulmonary arterial hypertension (PAH) and candidates for lung or heart-lung transplantation
Hugues Vicaire (Paris, France), Jérôme Le Pavec, Athénaïs Boucly, Xavier Jais, Olaf Mercier, David Montani, Elie Fadel, Marc Humbert, Olivier Sitbon, Laurent Savale

OA142 Lack of agreement between the exercise variables to assess the risk in PAH.
Víctor Manuel Mora Cuesta (Santander (Cantabria), Spain), Amaya Martínez Meñaca, José Manuel Cifrián Martínez, Joan Albert Barberá, Manuel López Meseguer, Juan Antonio Domingo Morena, Joaquín Rueda Soriano,, Sergio Alcolea, Francisco Pastor Pérez, Pilar Escribano Subias

Vladimir Glikniskii (Stanford, United States of America), Ryan Anderson, Alejandra Lopez, Aileen Lin, Patricia Del Rosario, Steve Hershman , John Hess, Vinicio De Jesus Perez, Roham Zamani
### OA144
**Dehydroepiandrosterone and GDF-15 for follow-up of patients with pulmonary arterial hypertension**
Vasile Foris (Graz, Austria), Ceren Ayse Mutgan, Andrea Borenich, Gabor Kovacs, Philipp Douschan, Teresa Sassmannn, Katarina Zeder, Andrea Olschewski, Grażyna Kwapiszewska, Horst Olschewski

### OA145
**Pulmonary arterial hypertension in Adult-Onset Still’s Disease**
Athénaïs Boucly (Le Kremlin Bicêtre, France), Stéphane Mitrovic, Laurent Savale, Xavier Jais, David Montani, Estibaliz Lazaro, Nicolas Schleimitz, Coralie Bloch-Queyrat, Christine Christides, Jacques Pouchot, Marc Humbert, Bruno Fautrel, Olivier Sitbon

### OA146
**Association between Leflunomide and Pulmonary Hypertension**
Thomas Lacoste Palasset (Saint mande, France), Marie-Camille Chaumais, Jason Weatherald, Laurent Savale, Xavier Jais, Laura C. Price, Charles Khouri, Sophie Bulfon, Andrei Seferian, Mitja Jevnikar, Athénaïs Boucly, Grégoire Manaud, Stefana Pancic, Céline Chabanne, Kais Ahmad, Mathilde Volpato, Nicolas Fayrott, Anne Guillaumot, Delphine Horreau-Langlard, Grégoire Prévet, Pierre Fesler, Laurent Bertoletti, Martine Reynaud-Gaubert, Nicolas Lamblin, David Launay, Gérald Simonneau, Olivier Sitbon, Frédéric Perros, Marc Humbert, David Montani

### OA147
**Pregnancy in pulmonary arterial hypertension: mid-term outcomes of mothers and offspring**
Karen M Olsson (Hannover, Germany), Jan-Christopher Kamp, Constantin Von Kaisenberg, Susanne Greve, Lotta Winter, Da-Hee Park, Jan Fuge, Christian Kühn, Marius M. Hoeper

### OA148
**Favorable pregnancy outcomes in women with predominantly mild pulmonary arterial hypertension**
Stéphanie Saxer (Zürich, Switzerland), Nadine Corbach, Mona Lichtblau, Esther Schwarz, Fiorenza Gautschi, Alexandra Groth, Rolf Schüpbach, Franziska Krähenmann, Silvia Ulrich

### OA149
**Late Breaking Abstract - Convergence of clinical and computational phenotypes for rare variant association study (RVAS) in pulmonary arterial hypertension**
Emilia Swietlik (Cambridge, United Kingdom), Daniel Greene, Kathryn Auckland, Tobias Tilly, Jennifer Martin, N.B.R Translational Research, Nicholas Morrell, Stefan Gräf

### OA150
**Discussion**
All Speakers

---

**Skills lab: Cardiopulmonary exercise testing**

**Aims**: To understand the physiological significance of cardiopulmonary response profiles, in the context of exercise protocols; To describe the typical response profiles observed in patients with different cardio-respiratory diseases; To discriminate between “typical” from “anomalous” response profiles that can cause misinterpretation of test results and evaluate the effects of therapeutic interventions.

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Journalist

**Chairs**: Pierantonio Laveneziana (Paris, France), Michele Schaeffer (Vancouver (BC), Canada)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Introduction</td>
<td>Pierantonio Laveneziana (Paris, France), Michele Schaeffer (Vancouver (BC), Canada)</td>
</tr>
<tr>
<td>10:05</td>
<td>Equipment explanation</td>
<td>Joanna Shakespeare (Coventry (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>10:15</td>
<td>Calibration</td>
<td>Joanna Shakespeare (Coventry (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>10:25</td>
<td>CPET procedure demonstration</td>
<td>Pierantonio Laveneziana (Paris, France)</td>
</tr>
<tr>
<td>10:40</td>
<td>Question and answers</td>
<td>Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)</td>
</tr>
<tr>
<td>10:45</td>
<td>Interpretation</td>
<td>Pierantonio Laveneziana (Paris, France)</td>
</tr>
<tr>
<td>11:25</td>
<td>Clinical cases</td>
<td>Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)</td>
</tr>
</tbody>
</table>
11:45 Questions and answer
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)

Studio Amsterdam
Session 52
11:00 - 11:15
Breakout room: Symposium, Repair and regeneration in chronic lung disease and lung cancer
Chairs: Merian Kuipers (Den Haag, Netherlands), Georgios Statopoulos (Munich, Germany), Janette K. Burgess (Groningen, Netherlands), Martina M. De Santis (Lund, Austria), Pieter S. Hiemstra (Leiden, Netherlands)

Studio Barcelona
Session 53
11:00 - 11:15
Breakout room: Symposium, State of the art session, Airway diseases
Chairs: Tommy Palai (Gaborone, Botswana), Alberto Papi (Ferrara, Italy), Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Lee Pyng (Singapore, Singapore), Konstantinos Kostikas (Ioannina, Greece)

Studio London
Session 54
11:00 - 11:15
Breakout room: Symposium, New developments in mechanical ventilation and ventilator weaning
Chairs: Sarang Patil (Dhule (Maharashtra), India), Olivia Fulton (Edinburgh (Edinburgh), United Kingdom), John Laffey (Galway, Ireland), Lise Piquilloud (Lausanne, Switzerland), Katerina Vaporidi (Heraklio, Greece), Lucas Fleuren (Amsterdam, Netherlands)

Studio Munich
Session 55
11:00 - 11:15
Breakout room: Symposium, Holistic care in interstitial lung disease: monitoring the patient’s pathway
Chairs: Kunal Khanderao Deokar (Thane (Maharashtra), India), Ganesh Raghu (Seattle, United States of America), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup (Aarhus N, Denmark), Anne-Marie Russell (Taunton, United Kingdom)

Studio Paris
Session 56
11:00 - 11:15
Breakout room: Breakout room: Lungs on fire : LoF Paediatric respiratory diseases
Chairs: Monika Gappa (Düsseldorf, Germany), Dilber Ademhan Tural (Ankara, Turkey)

Channel 2
Session 57
11:15 - 12:45
Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases  Respiratory critical care  Interstitial lung diseases
Method(s): Public health  Pulmonary rehabilitation  Cell and molecular biology  Palliative care  Pulmonary function testing  General respiratory patient care  Physiology
Tag(s): COVID
Chairs: Guido Vagheggini (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

OA159 Introduction

OA160 'Can do, do do' concept and all-cause mortality risk in patients with COPD
Anouk W. Vaes (Horn, Netherlands), Martijn A. Spruit, Hieronymus W.J. Van Hees, Eleonore H. Koolen, Jeanine C. Antons, Marianne C.H. De Man, Remco S. Djamin, Alex J. Van 'T Hul

OA161 Behavioural modification interventions alongside pulmonary rehabilitation improve COPD patients' experiences of physical activity
Matthew Armstrong (Bournemouth, United Kingdom), Emily Hume, Laura Mcneille, Francesca Chambers, Lynsey Wakenshaw, Graham Burns, Karen Heslop-Marshall, Ioannis Vgiotatzis

OA162 Proposed MID in FACT and VAS scores for individuals attending COVID-19 rehabilitation
Charlotte Gerlis (Leicester, United Kingdom), Sally Singh, Nikki Gardiner, Linzy Houchen-Wolloff, Emma Chaplin, Enya Daynes
RISK FACTORS FOR THE DEVELOPMENT OF SARCOPENIA IN PATIENTS WITH COVID-19
Carlos Miguel Sánchez-Moreno (Ciudad de México, Mexico), DULCE Gonzalez ISLAS, Arturo Orea-Tejeda, Maria Fernanda Salgado-Fernández, Andrea Samantha Hernández-López, Susana Galicia-Amor, Esperanza Trejo-Mellado, Juan Garcia-Hernández, Juan Orozco-Gutiérrez, Carlos Aboliz-Rivera

Altered calcium response in stimulated myotubes from COPD patients
Pascal Pomiès (Montpellier Cedex 5, France), Anne Virsolvky, Emilie Passerieux, Bronia Ayoub, Maurice Hayot

The sound of anxiety: exploring the effect of audio recordings of breathing on self-reported breathlessness
Simon Etkind (Cambridge, United Kingdom), Natasha Lovell, Wendy Prentice, Irene Higginson, Katherine Sleeman

Outcomes of Multi Disciplinary Team Comprehensive Post Hospitalisation Follow Up for 420 COVID 19 Patients
Yasser Noeman Ahmed (Southend, United Kingdom), Kapur Milan, Maryam Noeman, Diab Alsouki, Maria Kotouckova, Gouri Koduri, Dora Amran, Duncan Powrie

Effect of high-flow oxygen therapy on exercise tolerance in idiopathic pulmonary fibrosis: a randomized crossover trial.
Junpei Harada (Kobe, Japan), Kazuma Nagata, Kentaro Ivata, Akira Ishikawa, Keisuke Tomii

Comprehensive pulmonary rehabilitation (PR) decreases frailty in lung transplant recipients – a prospective observational study
Tessa Schneeberger (Schönaum an Königsee, Germany), Maximilian Gaida, Inga Jarosch, Daniela Leitl, Rainer Gloeckl, Klaus Kuhn, Andreas Rembert Koczulla

Late Breaking Abstract - A randomised control trial using inspiratory muscle training in post-COVID-19 rehabilitation
Melitta McNarry (Swansea, United Kingdom), James Shelley, Joanne Hudson, Zoe Saynor, Jamie Duckers, Keir Lewis, Gwynth Davies, Mark Williams, Ronan Berg, Kelly Mackintosh

Introduction

Frequency and risk factors for Chronic Thromboembolic Pulmonary Hypertension after a first unprovoked Pulmonary Embolism: results from PADIS-studies.

Characteristics of chronic thromboembolic pulmonary hypertension in Ireland
Sarah Cullivan (Cavan, Ireland), Barry Kevane, Fionaul Naíntle, Brian McCullagh, Sean Gaine

Current strategies for managing CTEPH
Marion Delcroix (Leuven, Belgium), Joanna Pepke-Zaba, Elie Fadel, David Jenkins, Nick Kim, Michael Madani, Hiromi Matsubara, Gerald Simonne, Marko Topalovic, Rozenn Quarc, Catharina Belge, Win Janssens, Marion Delcroix

Clinically applicable machine learning prediction model for pulmonary hypertension due to left heart disease
Katleen Swinnen (Leuven, Belgium), Kenneth Verstraete, Nilakash Das, Marko Topalovic, Rozenn Quarc, Catharina Belge, Win Janssens, Marion Delcroix

Effect of breathing oxygen-enriched air on exercise performance in patients with pulmonary hypertension in heart failure with preserved ejection fraction. Randomized, placebo-controlled, cross-over trial.
Julian Müller (Zürich, Switzerland), Mona Lichtblau, Stéphanie Saxer, Luigi-Riccardo Riccardo, Arcangelo F. Carta, Simon R. Schneider, Charlotte Berlier, Michael Furian, Konrad E. Bloch, Esther I. Schwarz, Silvia Ulrich
OA177 Survival effects of pulmonary vasodilators in group 3 pulmonary hypertension
Timothy JW Dawes (London, United Kingdom), Konstantinos Dimopoulos, Colm Mccabe, Simon Bax, Aleksander Kempny, Philip Molyneaux, Peter George, Vasilis Kouranos, Felix Chua, Elisabetta Renzoni, Maria Kokosi, Athol U Wells, S John Wort, Laura C Price

OA178 Selection of a gene panel related to pulmonary hypertension associated with respiratory diseases
Adelaida Bosacoma (Barcelona, Spain), Daniel Aguilar, Agustin García, Isabel Blanco, Clara Martin-Ontiyuelo, Ana Ramirez, Ylenia Roger, Jeisson Osorio, Olga Tura-Beide, Victor Ivo Peinado, Joan Albert Barberá

OA179 Incremental experience in optimizing in vitro primary culture of human pulmonary arterial endothelial cells harvested from Swan-Ganz catheters
Rozenn Quarcq (Leuven, Belgium), Birger Tielemans, Leanda Stoian, Allard Wagenaar, Mathias Leys, Catharina Belge, Marion Delcroix

OA180 Late Breaking Abstract - Peripheral T-cells and their cytokine production in Chronic Thromboembolic Pulmonary Hypertension.
Thomas Koudstaal (Rotterdam, Netherlands), Denise Van Uden, Jennifer Van Hulst, Madelief Vink, Menno Van Nimwegen, Peter Heukels, Annemien Van Den Bosch, Mirjam Kool, Rudi Hendriks, Karin Boomars

OA181 Discussion
All Speakers

---

**Channel 4  Session 59  11:15 - 12:45**

**Oral presentation: Psychological and behavioural issues in respiratory care**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** General respiratory patient care | Pulmonary rehabilitation | Public health | Respiratory intensive care | Epidemiology | Imaging

**Tag(s):** COVID

**Chairs:** Ingeborg Farver-Vestergaard (Veje, Denmark), Thomas Janssens (Leuven, Belgium)

OA182 Introduction

OA183 No gender differences in neural gating of respiratory sensations in COPD patients – preliminary findings
Ysys Denutte (Leuven, Belgium), Thomas Reijnders, Rik Gosselink, Daniel Langer, Paul Davenport, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

OA184 Translation and initial validation of the Danish version of the COPD-Anxiety Questionnaire
Sandra Rubio-Rask (Veje, Denmark), Ingeborg Farver-Vestergaard, Ole Hilberg, Anders Løkke

OA185 Optimism, exacerbations and health outcomes of pulmonary rehabilitation in patients with COPD
Thomas Janssens (Leuven, Belgium), Wolfgang Geidl, Johannes Carl, Klaus Pfeifer, Nicola Lehbert, Michael Wittmann, Konrad Schultz, Andreas Von Leupoldt

OA186 Technology-dependent children with respiratory problems on a home care program: Exploring the family experience
Maria Galogavrou (THESSALONIKI, Greece), Elpis Hatziagorou, Petrina Vantsi, Ilketra Toulia, Elisavet-Anna Chrysochoou, Fotios Kirvassilis, John Tzanakis

OA187 Psychological functioning and lifestyle behaviours of patients with idiopathic pulmonary fibrosis: a prospective study
Anouk Delameillieure (Leuven, Belgium), Fabienne Dobbels, Katleen Leceuvre, Daniëlle Strems, Sara Van Der Auwera, Karolien Verheyen, Jonas Yserbyt, Wim Wuyts

OA188 Mental health during COVID-19 in Dutch adolescents and adults with cystic fibrosis (CF) or primary ciliary dyskinesia (PCD) and their caregivers
Marieke Verkleij (Amsterdam, Netherlands), Lieke Noij, Simone Hashimoto, Suzanne Terheggen-Lagro, Josje Altenbug, Eric Haarman

OA189 Psychological sequelae among health personnel treated for COVID 19 at the Hassan II hospital in Agadir
fatiha bounoua (AGADIR, Morocco), Houida Moubachir, Hind Serhane

OA190 Impact of COVID-19 on mental health: a traumatic event
Maarten Van Herck (Diepenbeek, Belgium), Sarah Houben-Wilke, Yvonne Goertz, Jeannet Delbressine, Anouk Vaes, Roy Meys, Felipe Machado, Chris Burtin, Rein Posthuma, Frits Franssen, Herman Vialibrie, Yvonne Spies, Alex Van ’T Hul, Martijn Spruit, Daisy Janssen
OA191  Sex differences in mental health of hospitalized patients with COVID-19
Zafeiria Barmparessou (Athens, Greece), Sofia Pappa , Apostolos Pappas, Kostas Eleftheriou, Stavros Patrinos, Efthychia Polydora, Nikolaos Athanasiou, Ioannis Kalomenidis, Paraskevi Katsaounou

OA192  Discussion
All Speakers

Channel 5  Session 60  11:15 - 12:45
Symposium: Noninvasive respiratory support in hypoxic respiratory failure: stay safe and know your limits
Aims: To will discuss the assessment of the acute hypoxic respiratory failure; to outline the risks vs benefits of non-invasive ventilation (NIV) support for COVID patients; to explain the role of NIV in the management of refractory dyspnoea; and to discuss the physiological changes during continuous positive airway pressure (CPAP), NIV and High-flow nasal cannula (HFNC).
Disease(s): Thoracic oncology, Respiratory critical care
Method(s): General respiratory patient care, Palliative care, Respiratory intensive care
Tag(s): Clinical, COVID
Target audience: Adult pulmonologist/Clinician, Medical Student, Respiratory critical care physician, Thoracic oncologist
Chairs: Marieke L. Duiverman (Groningen, Netherlands), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)

11:15  Introduction

11:20  How to assess the severity of acute hypoxic respiratory failure
Luigi Camporota (London, United Kingdom)

11:35  Noninvasive respiratory support during Covid 19: risks and benefits
Stefano Nava (Bologna (BO), Italy)

11:50  Management of refractory dyspnoea in end-stage patients: the use of noninvasive respiratory support
Marieke L. Duiverman (Groningen, Netherlands)

12:05  Physiological changes during CPAP, NIV and HFNC: one for all or all for one?
Maria Laura Vega (Bologba, Italy)

12:20  Discussion and Q&A
All Speakers

Studio Amsterdam  Session 61  11:15 - 12:45
Symposium: Innate immunity and lung epithelial repair: what really happens?
Epithelial repair responses upon respiratory infection and lung tissue damage
Aims: To describe the mechanisms underlying epithelial barrier disruption and impaired recovery in response to environmental triggers, which are crucial for the development of novel therapeutic strategies, including stem cell-based strategies; to provide an overview of the cellular and molecular mechanisms involved in epithelial damage and repair as well as abnormalities of these mechanisms in lung disease and regulation of these processes by virus-induced innate immune responses; to explain the complex role of the epithelial barrier in the onset and progression of pulmonary diseases and its To potential to serve as a target for therapeutic strategies; to differentiate between epithelial cell death modalities and to describe how these contribute to lung tissue damage in chronic obstructive pulmonary disease (COPD); to explain how the release of specific danger molecules upon epithelial injury, e.g., those acting on receptor for advanced glycation end products (RAGE), can result in alveolar tissue damage and impaired lung tissue regeneration in COPD; to describe the role of innate immune responses in abnormal lung tissue regeneration upon viral infection; to describe the potential of stem cells for epithelial regeneration upon infection in cystic fibrosis (CF) patients.
Disease(s): Airway diseases, Respiratory infections
Method(s): Cell and molecular biology
Tag(s): Translational, Basic science
Target audience: Clinical researcher, Pathologist, Scientist (basic, translational)
Chairs: Reinoud Gosens (Groningen, Netherlands), Silke Meiners (Sülfeld, Germany)

11:15  Introduction

11:20  Epithelial cell death, tissue damage and repair: looking inside the COPD lung
Suzanne Cloonan (Dublin, Ireland)

11:35  Repairing the COPD epithelium: is ‘RAGE’ the solution?
Simon D. Pouwels (Groningen, Netherlands)
11:50 Viruses and interferons: working together to injure the epithelium
Ivan Zanoni (Boston, United States of America)

12:05 What damages the cystic fibrosis lung epithelium: host or microbe?
Catherine Greene (Dublin 9, Ireland)

12:20 Discussion and Q&A
All Speakers

Studio Barcelona  Session 62  11:15 - 12:45
Clinical trials session: ALERT: COPD

Aims: Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

Disease(s): Airway diseases

Method(s): General respiratory patient care  Public health  Pulmonary rehabilitation

Chairs: Omar S. Usmani (London, United Kingdom), Ay e Arzu Yorganc o lu (Konak, Turkey)

Discussants: Guy Brusselle (Ghent, Belgium), Jadwiga Wedzicha (London, United Kingdom)

RCT205 Introduction

RCT206 Late Breaking Abstract - Astegolimab, an anti-ST2, in chronic obstructive pulmonary disease - COPD-ST2OP: a phase IIa, placebo-controlled trial
Ahmed Javid Yousuf (Oxford (Oxfordshire), United Kingdom), Seid Mohammed, Liesl Carr, Mohammadali Yavari Ramsheh, Koirobi Haldar, Adam K A Wright, Petr Novotny, Sarah Parker, Sarah Glover, Joanne Finch, Kate Hadley, Niamh Quann, Claudia Micieli, Vijay Mistry, Cassandra Brookes, Rachel Hobson, Wadah Ibrahim, Richard Russell, David F Choy, Dorothy Cheung, Michele Grimbaldeston, Catherine John, Michael Steiner, Neil J Greening, Christopher E Brightling

RCT207 RCT Abstract - Randomized, double-blind, placebo-controlled, phase III clinical trial with MV130, a sublingual bacterial immunotherapy to prevent COPD exacerbations
Luis Puente Maestu (Madrid, Spain), Laura Conejero Hall, Myriam Calle Rubio, Walter Girón, Carlos José Alvarez Martinez, Maria Jesús Buendia García, Joan Serra Batllés, Juan Luis Rodríguez Hernosa, Soledad Alonso Viteri, Julia García De Pedro, Paola Benedetti, Javier De Miguel Diez, José Luis Alvarez-Sala Walther, Julio Hernández Vázquez, Francisco García Rio, Carmen Rodríguez Sainz, Cristina Fernández Pérez, Ana Doyle, Raquel Caballero, José Luis Subiza, Miguel Casanovas, Eduardo Fernández-Cruz

RCT208 RCT209 The relationship between eosinophils and reduction in major adverse cardiac events in ETHOS
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Klaus F Rabe, Dave Singh, Martin Jenkins, Paul Dorinsky, Mehul Patel

RCT209 Wrap-up by discussant and discussion
Guy Brusselle (Ghent, Belgium)

RCT210 Late Breaking Abstract - First-time assessment of efficacy of candidate vaccine to prevent acute exacerbations of chronic obstructive pulmonary disease (AECOPD): multicentre, randomised, controlled, observer-blind phase 2b trial
Stefan Andreas (Immenhausen, Germany), Marco Testa, Laurent Boyer, Guy Brusselle, Wim Janssens, Edward Kerwin, Alberto Papi, Bonavuth Pek, Luis Puente-Maestu, Dinesh Saralaya, Henrik Watz, Tom Ma Wilkinson, Daniela Casula, Gennaro Di Muro, Maria Lattanzi, Luca Moraschini, Sonia Schoonbroodt, Annaelisa Tasciotti, Ashwani K Arora, Francois Maltais

RCT211 RCT Abstract - Tailored psychological intervention for anxiety/depression in people with COPD (TANDEM): a randomised controlled trial.
Steph Taylor (London, United Kingdom), Hilary Pinnock, Ratna Sohanpal, Elizabeth Steed, Claire Chan, Andy Healey, Richard Hooper, Karen Hoslop, Moira Kelly, Stefan Priebe, C Michael Roberts, Sally Singh, Sarah Saqi-Waseem, Martin Underwood, Patrick White, Chris Warburton

RCT212 Wrap-up by discussant and discussion
Jadwiga Wedzicha (London, United Kingdom)

RCT212 Closing remarks

Studio London  Session 63  11:15 - 12:45
Symposium: Acute respiratory distress syndrome phenotypes: implications for diagnosis and treatment
Aims: To describe heterogeneity in the pathophysiology of acute respiratory distress syndrome (ARDS); to describe biological and morphological subphenotypes of ARDS and the implications for patient management; to describe treatable traits in ARDS; to explain the relationship between biological and physiological variation and optimal patient management.

Disease(s): Respiratory critical care, Respiratory infections

Method(s): Cell and molecular biology, Imaging, Respiratory intensive care

Tag(s): Translational

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Scientist (basic, translational)

Chairs: Leo Heunks (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)

11:15 Introduction

11:20 Current understanding of ARDS pathophysiology
Nuala Meyer (Philadelphia, United States of America)

11:35 Personalised medicine through ventilator settings: implications of lung morphology in ARDS
Jean-Michel Constantin (Paris, France)

11:50 Personalised medicine through biological subphenotyping of ARDS
Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

12:05 Personalised medicine through individual approaches to resolve lung injury
Brijesh Patel (London, United Kingdom)

12:20 Discussion and Q&A
All Speakers

Studio Munich

Session 64 11:15 - 11:55

Pro-Con debate: Post COVID interstitial lung diseases syndrome: diagnosis and management as interstitial lung disease?

Aims: To describe the spectrum of interstitial lung changes observed after COVID-19 infection, and to address diagnostic and management related issues; to debate the use or not corticosteroids plus antifibrotics and/or immunomodulation according pathogenetic and clinical/radiological insights in the field. to discuss clinical, radiological and pathological description of post COVID-19 interstitial lung cases.

Disease(s): Interstitial lung diseases

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Physician in Pulmonary Training, Physiologist, Journalist

Chairs: Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)

11:15 Introduction

11:17 Use of antifibrotics in post-COVID ILD: PRO
Bruno Crestani (Paris, France)

11:29 Use of antifibrotics in post-COVID ILD: CON
Sara Tomassetti (Florence, Italy)

11:41 Discussion and Q&A
All Speakers

Studio Paris

Session 65 11:15 - 11:55

Guidelines session: ERS Clinical practice guidelines for managing children and adolescents with bronchiectasis

Aims: To describe the objectives of managing children/adolescents with bronchiectasis; to present the ERS recommendations relating to diagnosing and undertaking the minimum investigations when evaluating a child/adolescent with chronic suppurative lung disease; to explain reasons for the various recommendations and to increase awareness of the guideline’s recommendations on antibiotic treatment of exacerbations, pathogen eradication, long-term antibiotic therapy, asthma-type therapies (inhaled corticosteroids, bronchodilators), mucoactive drugs, airway clearance, disease monitoring, factors to consider before surgical treatment and the reversibility and prevention of bronchiectasis in children/adolescents.
Channel 6  Session 66  11:15 - 12:45

**Oral presentation: Novelties in interventional pulmonology**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

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

**Target audience:** Prashant Nemichand Chhajed (Mumbai, India), Daniela Gompelmann (Vienna, Austria)

**Chairs:** Prashant Nemichand Chhajed (Mumbai, India), Daniela Gompelmann (Vienna, Austria)

**OA229**  Introduction

**OA230**  Late Breaking Abstract - Bronchoscopic microwave ablation of peripheral lung tumors
Kelvin Lau (London, United Kingdom), Kelvin Lau, Rainbow Lau, Ralitsa Baranowski, Calvin Ng

**OA231**  Optical coherence tomography detected changes in airway remodeling after bronchial thermoplasty in severe asthma
Pieta Wijsman (Amsterdam, Netherlands), Annika Goosenberg, Richard Van Den Elzen, Nienke Hoekstra, Julia D’Hooghe, Martijn De Bruin, Jouke Annema, Janette Burgess, Peter Bonta

**OA232**  Late Breaking Abstract - Needle based confocal laser endomicroscopy for the diagnosis of peripheral lung nodules by robotic navigational bronchoscopy
Christopher Manley (Philadelphia, United States of America), Tess Kramer, Rohit Kumar, Lizzy Wijmans, Martijn De Bruin, Éric Ross, Yulan Gong, Hormoz Ehya, Peter Bonta, Jouke Annema

**OA233**  Histological confidence of transbronchial cryobiopsy in interstitial lung diseases is influenced by sample size
Jürgen Hetzel (Tuebingen, Germany), Athol Wells, Ulrich Costabel, Thomas V. Colby, Simon L.F. Walsh, Johny Verschakelen, Alberto Cavazza, Sara Tomassetti, Claudia Ravaglia, Michael Böckeler, Werner Spengler, Michael Kreuter, Ralf Eberhardt, Kaid Darwiche, Alfonso Torrego, Virginia Pajares, Katja Stiebeling, Marius Horger, Falko Fend, Arne Warth, Claus Peter Heussel, Sara Piciucchi, Alessandra Dubini, Dirk Theegarten, Tomas Franquet, Enrique Lerma, Venerino Poletti, Maik Hantschel

**OA234**  In vivo PS-OCT to detect fibrotic lung disease
Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Margherita Vaselli , Peter Bonta, Johannes De Boer, Jouke Annema

**OA235**  Day case rapid pleurodesis in malignant pleural effusion
Chuan Tai Foo (Victoria, Australia), Thomas Pulimood, Martin Knolle, Stefan John Marciniak, Jurgen Herre

**OA236**  Safety of EUS-B-FNA in patients with respiratory insufficiency
Uffe Bodtger (Naestved, Denmark), Ida Skovgaard Christiansen, Uffe Bodtger, Rafi Nessar, Goran Nadir Sahil, Shailesh Kolekar, Jatinder Singh Sidhu, Asbjørn Højholm, Christian B Laursen, Arman Arshad, Paul Frost Clementsen

**OA237**  STENTING VERSUS BALLOON DILATATION IN PATIENTS WITH TRACHEAL BENIGN STENOSIS – THE STROBE TRIAL
Dario Andrisani (Modena (MO), Italy), Roberto Tonelli, Alessandro Marchioni, Alessandro Andreanti, Gaia Cappiello, Margherita Ori, Filippo Gozzi, Giulia Bruzzi, Chiara Nani, Linda Manicardi, Francesco Mattioli, Matteo Fermi, Riccardo Fantini, Luca Tabbi, Ivana Castaniere, Livio Presutti, Enrico Clini
Efficacy and safety of position selection combined with intra-pleural thrombin injection in the treatment of postoperative persistent air leakage
Hua Zhang (Rizhao (Shandong), China), Hua Zhang, Mengyao Wang, Wei Zhang, Changsheng Ge, Lei Wang

A multicentre study evaluating bleeding risk with intrapleural enzyme therapy in pleural infection (RETROLYSIS)
Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Najib Rahman, Lonny Yarmus, Jason Akulian

Discussion
All Speakers

Channel 1 Session 67 11:45 - 13:00
Challenging clinical cases: CCC Respiratory infections
Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory infections area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

Disease(s): Respiratory infections
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Medical Student

Chairs: Raquel Duarte (Porto, Portugal), Pierre-Régis Burgel (Paris, France)

11:45 Introduction

11:50 A case of lower limb weakness following Covid-19 infection
Chung-Mei Maggie Cheung (London, United Kingdom)

12:00 Persistent fever and cytopenia in a patient with pulmonary tuberculosis
Sanjeewa Malinda Hettiarachchi (Kiribathgoda, Sri Lanka)

12:10 Tropical Disaster - A bronchoscopic surprise
Thiyagesa Deva Ganapathy Sivanandaraj (Dindigul, India)

12:20 Respiratory failure 4 months after severe SARS-Cov-2 infection
Thibault Viatgé (Toulouse, France)

12:30 Constitutional syndrome and miliary pattern in HIV-positive patient
Patricia Nadal-Baron (Barcelona, Spain)

12:40 Discussion and Q&A
All Speakers

Studio Munich Session 68 11:55 - 12:10
Breakout room: Breakout room: Pro-Con debate, Post COVID interstitial lung diseases syndrome: diagnosis and management as interstitial lung disease?

Chairs: Kunal Khanderao Deokar (Thane (Maharashtra), India), Bruno Crestani (Paris, France), Sara Tomassetti (Florence, Italy)

Studio Paris Session 69 11:55 - 12:10
Breakout room: Breakout room: Guidelines session, ERS Clinical practice guidelines for managing children and adolescents with bronchiectasis

Chairs: Dilber Ademhan Tural (Ankara, Turkey), Zena Powell (Aylesbury , United Kingdom), Andrew Bush (London, United Kingdom), Keith Grimwood (Gold Coast (QLD), Australia), Angela Zacharasiewicz (Wien, Austria)

Studio Munich Session 70 12:05 - 12:45
Guidelines session: ERS clinical practice guidelines on treatment of sarcoidosis

Aims: To report on the updated clinical guidelines on treatment of sarcoidosis.

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Patient, Scientist (basic, translational)

Chairs: Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:05</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>12:07</td>
<td>Clinical approach and changes from previous guidelines</td>
<td>Robert P. Baughman (Cincinnati, United States of America)</td>
</tr>
<tr>
<td>12:17</td>
<td>Treatment options and recommendations</td>
<td>Athol Wells (London, United Kingdom)</td>
</tr>
<tr>
<td>12:27</td>
<td>Practical approach with cases, interactive questions and discussion</td>
<td>Dominique Israel-Biet (Paris, France)</td>
</tr>
</tbody>
</table>

### Studio Paris: Session 71 12:05 - 12:45

**Guidelines session: The ERS guidelines for the diagnosis of asthma in children aged 5-16 years**

**Aims:**
To present the results from the ERS task force for the development of European Respiratory Society guidelines for the diagnosis of asthma in children aged 5-16 years; to discuss the background, motivation and methodology of preparing these guidelines; to present the core recommendations and underscore them with some clinical cases; to provide a commentary from outside of the task force.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Physician in Pulmonary Training

**Chairs:** Jonathan Grigg (London, United Kingdom), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:05</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>12:07</td>
<td>Why guidelines for asthma diagnosis in school children? Background and motivation</td>
<td>Erol Gaillard (Leicester (Leicestershire), United Kingdom)</td>
</tr>
<tr>
<td>12:17</td>
<td>How should asthma be diagnosed in school children? Recommendations of the evidence based ERS-Guidelines</td>
<td>Carmen Cornelia Maria de Jong (Bern, Switzerland)</td>
</tr>
<tr>
<td>12:27</td>
<td>Parent's view</td>
<td>Kerri Jones (Bournemouth, United Kingdom)</td>
</tr>
<tr>
<td>12:31</td>
<td>How do the new guidelines work? Practical approach to the new guidelines for asthma diagnosis in children, discussion and Q&amp;A</td>
<td>David Lo (Leicester, United Kingdom)</td>
</tr>
</tbody>
</table>

### Studio Amsterdam: Session 72 12:45 - 13:00

**Breakout room: Symposium, Innate immunity and lung epithelial repair: what really happens?**

**Chairs:** Merian Kuipers (Den Haag, Netherlands), Suzanne Cloonan (Dublin, Ireland), Simon D. Pouwels (Groningen, Netherlands), Catherine Greene (Dublin 9, Ireland), Ivan Zanoni (Boston, United States of America)

### Studio Barcelona: Session 73 12:45 - 13:00

**Breakout room: Breakout room: Clinical trials session, 1-ALERT: COPD**

**Chairs:** Tommy Palai (Gaborone, Botswana), Guy Brusselle (Ghent, Belgium), Jadwiga Wedzicha (London, United Kingdom)

### Studio London: Session 74 12:45 - 13:00

**Breakout room: Symposium, Acute respiratory distress syndrome phenotypes: implications for diagnosis and treatment**

**Chairs:** Sarang Patil (Dhule (Maharashtra), India), Nuala Meyer (Philadelphia, United States of America), Jean-Michel Constantin (Paris, France), Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom), Brijesh Patel (London, United Kingdom)

### Studio Munich: Session 75 12:45 - 13:00

**Breakout room: Breakout room: Guidelines session, ERS clinical practice guidelines on treatment of sarcoidosis**

**Chairs:** Kunal Khanderao Deokar (Thane (Maharashtra), India), Robert P. Baughman (Cincinnati, United States of America), Athol Wells (London, United Kingdom), Dominique Israel-Biet (Paris, France)
### Breakout room: Breakout room: Guidelines session, The ERS guidelines for the diagnosis of asthma in children aged 5-16 years

**Chairs:** Dilber Ademhan Tural (Ankara, Turkey), Erol Gaillard (Leicester (Leicestershire), United Kingdom), Carmen Cornelia Maria de Jong (Bern, Switzerland), David Lo (Leicester, United Kingdom)

### Skills lab: Continuous positive airway pressure, non-invasive ventilation and mechanical ventilation

**Aims:** To improve team members chances of success in delivering continuous positive airway pressure, non-invasive ventilation and high flow nasal oxygen in acute hypoxaemic respiratory failure in COVID and non-COVID patients, to understand lessons learnt in use of advanced mechanical ventilation and ECMO in covid patients, to provide guidance on best practice in weaning, tracheotomy care and rehabilitation in COVID and non-COVID patients

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

**Method(s):** Respiratory intensive care, Pulmonary rehabilitation

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

**Target audience:** Adult pulmonologist/clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Respiratory therapist

**Chairs:** Anita Simonds (London, United Kingdom), Lise Piquilloud (Lausanne, Switzerland)

### INDUSTRY VIRTUAL SYMPOSIUM

**Aims:** The objectives of this session are to 1) Raise awareness of the drivers and impact of under-prioritisation of respiratory diseases, with a focus on implications for COVID-19 response and recovery; 2) Discuss opportunities for reform in respiratory care to support resilience and sustainability in healthcare systems globally; 3) Introduce the International Respiratory Coalition initiative, including its approach and goals.

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Christine Jenkins (McMahons Point (NSW), Australia)

### Channel 3

**Joint session: Transforming respiratory care: why now is the time to act**

**Aims:** The objectives of this session are to 1) Raise awareness of the drivers and impact of under-prioritisation of respiratory diseases, with a focus on implications for COVID-19 response and recovery; 2) Discuss opportunities for reform in respiratory care to support resilience and sustainability in healthcare systems globally; 3) Introduce the International Respiratory Coalition initiative, including its approach and goals.

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Christine Jenkins (McMahons Point (NSW), Australia)
Panel discussion: elevating respiratory diseases to the top of the political agenda
Marc Humbert (Le Kremlin-Bicêtre, France), Tonya Winders (Hendersonville, United States of America), Pablo Panella (Gerrards Cross, United Kingdom), Christine Jenkins (McMahons Point (NSW), Australia), John R Hurst (London, United Kingdom), Joanna Chorostowska-Wynimko (Warsaw, Poland), Garnet Howells (Thousand Oaks, United States of America)

14:25 Meeting summary and close
Marc Humbert (Le Kremlin-Bicêtre, France), Christine Jenkins (McMahons Point (NSW), Australia)

Pre-congress content
Session 83
E-poster: Clinical features and challenges of COVID-19

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care, Epidemiology, Public health
Tag(s): COVID, Digital health
Chairs: Dario Kohlbrenner (Echirolles, France), Georgios Kaltsakas (Athens, Greece)

- **The clinical course of community-acquired pneumonia caused by SARS-COV-2 in pregnant women**
  - Irina A. Andrievskaya (Blagoveshchensk, Russian Federation), Irina V. Zhukovets, Natalia A. Smirnova, Olga V. Demura, Anton S. Abuldinov, Karen S. Lyazgian, Victor P. Kolosov

- **Impact of the COVID - 19 pandemic on pleural infections: A multicentre retrospective analysis**
  - Khalil Ur Rehman (London, United Kingdom), Eihab O Bedawi, Parthipan Sivakumar, Katie Ferguson, Syed Ajmal, Emma Graham, Rakesh Panchal, John Corcoran, Kevin G Blyth, Najib Rahman, Alex West

- **Bacterial Pneumonias: Before and after the COVID-19 pandemic**
  - Khalil Ur Rehman (London, United Kingdom), Parthipan Sivakumar

- **Covid-19 and obesity**
  - marzouki saf (tunisia, Tunisia), marzouki safa, Maazaoui Sarra, Nouira Imen, Hbibechn Sonia, Chaabene Mariem, Racil Hajar, Chaouf Nawel

- **COVID-19: pneumonia and comorbidities at three sites of medical care**
  - Valentin Calancea (Chisinau, Codru, Republic of Moldova), Sergiu Matcovschi, Ion Sirbu, Nina Chicu, Viorica Chihai, Virginia Cascaval, Tatiana Dumitrasc

- **The effect of the novel type coronavirus infection on the mental health of the patients**
  - Esen Sayin Gülensoy (Ankara-Balgat, Turkey), Betül Gürsoy Ççek, Aycan Yüksel, Aslıhan Alhan, Nalan Ogan, Evrim Eylem Akpınar

- **Prognosis value of hypertension in Covid-19 infection**
  - imen nouira (monastir, Tunisia), Sarra Maazaoui, Safa Marzouki, Sonia Habibechn, Meriem Chaabene, Hager Racil, Naouel Chaouech

- **Interest of searching diabetes at the first visit in a population with SARS COV2**
  - Ahmed Dhia EL-EUCH (Sfax, Tunisia), abdmouleh khouloud, Mejoud Fehri Sabrine, El Euch Dhia, Ghribi Wajih, Gannouni Ahmed, Siswa pinkmada

- **Clinical profile of Covid 19 positive patients admitted to a tertiary care hospital**
  - Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Parimal Deshpande, Swapnil Bakamwar, Gauri Ghadge

- **Persistent symptoms and quality of life after novel coronavirus infection (COVID-19)**
  - Ekaterina Makarova (Nizny Novgorod, Russian Federation), Natayla Lyubavinna, Marina Milyutina, Elena Galova, Ekaterina Nekaeva, Irina Polyakova, Nikolay Menkov, Anastasiya Egorskaya

- **Post covid-19 pulmonary complications, an experience from tertiary care hospital Karachi Pakistan**
  - Nousheen Iqbal (Karachi (Sindh), Pakistan), Iftik Khanum, Syed Zubair, Muhammad Ali Ibrahim Kazi, Urooj Riaz, Muhamma Ifan, Ali Zubairi, Javeda A. Khan, Safia Awan

- **Clinical characteristics and outcomes of hospitalized COVID-19 pneumonia : impact of gender**
  - Imen Sahnoun (Ariana, Tunisia), Soumaya Debiche, Ameni Ben Mansour, Asma Zaafouri, Sarra Ben Sassi, Soumaya Ben Saad, Fatma Ezzahra Dabebi, Hafaoua Daghfous, Sonia Maalej, Fatma Tritar, Leila Douik El Gharbi
Pre-congress content  Session 84  13:15 - 14:15

E-poster: Pulmonary rehabilitation in asthma and COPD

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Respiratory critical care

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

Chairs: Janos Tamas Varga (Budapest, Hungary), Mauro Carone (Bari, Italy)

PA307  Short Physical Performance Battery: Response to pulmonary rehabilitation and MCIDs in patients with COPD
Anouk Stooffels (Nijmegen (GE), Netherlands), Jana De Brandt, Roy Meys, Hieronymus Van Hees, Anouk Vaes, Peter Klijn, Chris Burtin, Frits Franssen, Bram Van Den Borst, Maurice Sillen, Daisy Janssen, Martijn Spruit

PA308  The different sensations of breathlessness in patients with COPD- is all breathlessness the same?
Enya Daynes (Leicester, United Kingdom), Neil Greening, Sally Singh

PA309  Metabolic and inflammatory profile in patients with COPD and physical activity.
Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Gergo Zsoldos, Stefano Tarantini, Anna Nemeth, Csenge Bodola, Luca Varga

PA310  Physical inactivity accentuates impairment of pulmonary mechanics in persistent moderate asthmatics: involvement of nitric oxide
Renilson Moraes Ferreira (São José dos Campos, Brazil), Maysa A R Brandao-Rangel, Anamei Silva-Reis, Thiago G Gibson-Alves, Helida C Aquino-Alves, Victor H S Palmeira, Claudio R Frison, Rodolfo P Vieira

PA311  The role of physical rehabilitation in the treatment of bronchial asthma patients
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovs'kyj, Ksenia Ostrovska, Iryna Savelikhina, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Galyna Korzh, Nadiia Korzh

PA312  Physical frailty in COPD patients with chronic respiratory failure
Sarah Gephine (Quebec (QC), Canada), Patrick Mucci, Jean-Marie Grosbois, François Maltais, Didier Saey

PA313  Reliability, construct validity and determinants of 6-minute walk distance in patients with asthma
Roy Meys (Horn, Netherlands), Steffie Janssen, Frits Franssen, Anouk Vaes, Anouk Stooffels, Hieronymus Van Hees, Bram Van Den Borst, Peter Klijn, Chris Burtin, Alex Van 'T Hul, Martijn Spruit
Pre-congress content  

**Session 85**  
13:15 - 14:15

**E-poster: Symptoms across respiratory diseases and impact of COVID-19**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster PDF format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):**  
- Pulmonary rehabilitation  
- Public health  
- General respiratory patient care  
- Pulmonary function testing  
- Epidemiology

**Tag(s):** COVID

**Chairs:**  
Shakila Devi Perumal (Gloucester, United Kingdom), Theresa Harvey-Dunstan (Loughborough (Leicestershire), United Kingdom)

**Immersive virtual reality as a method supporting pulmonary rehabilitation: Evaluation of the intensity of depressive and anxiety symptoms and stress levels**

Sebastian Rutkowski (Opole, Poland), Jan Szczegielniak, Joanna Szczepańska-Gierach

---

**Validity and reliability evidence of general self-efficacy scale in Greek adults with asthma.**

Andreas Daskalakis (N. Smyrni - Athens, Greece), Eleni Smyrli, Eirini Grammatopoulou, Vasilis Brissimis, Aikaterini Chaniotiou

**Psychometric validation of the Korean PROMIS-29 Profile v2.1 among patients with chronic pulmonary diseases in Korea**

heesu nam (seoul, Republic of Korea), Danbee Kang, Bo Guen Kim, Sun Hye Shin, Hye Yun Park, Hyun Lee, Juhee Cho

**Late Breaking Abstract - Feasibility of instrumented ventilatory and functional evaluation in patients with chronic obstructive pulmonary disease**

Simone Pancera (Manerbio, Italy), Luca Nicola Cesare Bianchi, Roberto Porta, Jorge Hugo Villafañe, Nicola Francesco Lopomo

---

**Effects of a NMES program in exercise capacity of hospitalized severely hypoxemic COPD patients**

Andrés Calvache Mateo (Granada, Spain), Laura López López, Janet Remedios Rodríguez Torres, Irene Torres Sánchez, María Granados Santiago, Alicia Conde Valero, Marie Carmen Valenza

**Urinary symptoms are very frequent among people with chronic respiratory disease attending pulmonary rehabilitation**

Francis-Edouard GRAVIER (Bois-Guillaume, France), Léna Bocquet, Pauline Smendonck, Guillaume Prieur, Yann Combret, Jean-François Muir, Antoine Cuvelier, Fairuz Boujibar, Clément Médrinal, Tristan Bonnevie

**Differences in the response to pulmonary rehabilitation in patients with COPD according to their age range.**

Visente Benavides Córdoba (Cali, Colombia), Jhonatan Betancourt-Peña, Juan Carlos Avila-Valencia, Maria Camila Cano-Lasprilla, Jacklin Astrid Martinez-Valencia, Alexandra Osorio Castañeda

**Adherence to singing training vs. Physical training in COPD rehabilitation**

Mette Kaasgaard (Copenhagen, Denmark), Daniel Bech Rasmussen, Karen Andreasson, Anders Løkke, Peter Vuust, Ole Hilberg, Uffe Bødager

**The effects of inspiratory muscle warm-up prior to inspiratory muscle training during pulmonary rehabilitation in subjects with COPD**

Ridvan Aktan (Balcova (İzmir), Turkey), Sevgi Ozalevli, Hazal Yakut, Aylin Ozgen Alpaydin

**Clustering of COPD patients admitted to pulmonary rehabilitation: a retrospective cohort analysis**

Yara Al Chikhanie (Dieulefit, France), Sébastien Bailly, Daniel Veale, Frédéric Hérent, Samuel Verges

**Clinical utility of gait and walking parameters in COPD, a scoping review**

Laura Delgado Ortiz (Dieulefit, France), Georgina Jiménez Lozano, Araceli Ortiz Rubio, Natalia Muñoz Viguera, Irene Cabrera Martos, Marie Carmen Valenza

**The impact of locomotor syndrome on quality of life and functionality of COPD patients**

Maria Granados Santiago (Alcaudete, Spain), Georgina Jiménez Lozano, Araceli Ortiz Rubio, Natalia Muñoz Viguera, Irene Cabrera Martos, Marie Carmen Valenza

**Physiotherapy interventions on chest wall mobility in obstructive lung diseases: a systematic review**

Funda Akuzum (İstanbul, Turkey), Aybike Senel, Basak Polat, Kubra Koç, Goksen Kuran Aslan

**Late Breaking Abstract - COPD patient’s adherence to pulmonary rehabilitation programs: scoping review**

Nasly L Hernández (Cali, Colombia), Delia Constanza Serpa-Anaya, Angela Maria Hoyos-Quintero

---

**Immersive virtual reality as a method supporting pulmonary rehabilitation: Evaluation of the intensity of depressive and anxiety symptoms and stress levels**

Sebastian Rutkowski (Opole, Poland), Jan Szczegielniak, Joanna Szczepańska-Gierach
| PA328 | Self-reported respiratory symptoms are poor indicators of exercise-induced bronchoconstriction in early-career athletes  
Karin Ersson (Uppsala, Sweden), Kjell Alving, Christer Janson, Elisabet Mallmin, Leif Nordang, Katarina Norlander, Henrik Johansson, Andrei Malinovschi |
| PA329 | Development of a physiotherapist-led remote breathlessness clinic for community lung patients: the Respiratory Advice and Management Physiotherapy (RAMP) service.  
Emily Johnstone (Bristol (Avon), United Kingdom), Dinesh Shrikrishna |
| PA330 | Giving voice to patients – experiences during acute exacerbations of COPD  
Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Sara Almeida, Bruno Cabrita, Catarina Cascais Costa, Paula Simão, Chris Burtin, Aila Marques |
| PA331 | Phenotypic features of bullying induced dyspnoea in children.  
Claire Hepworth (Liverpool (Merseyside), United Kingdom), Ian Street, Philip Lawrence, Su De, Ian Sinha |
| PA332 | Correlations between mental disorder symptoms and pulmonary functions and respiratory muscle strength in healthy adults  
Furkan Özdemir (Ankara, Turkey), Naciye Vardar Yağlı |
| PA333 | Phenotypic features of bullying induced dyspnoea in children.  
Claire Hepworth (Liverpool (Merseyside), United Kingdom), Ian Street, Philip Lawrence, Su De, Ian Sinha |
| PA334 | Phenotypic features of bullying induced dyspnoea in children.  
Claire Hepworth (Liverpool (Merseyside), United Kingdom), Ian Street, Philip Lawrence, Su De, Ian Sinha |
| PA335 | Elastic tape reduces dyspnea and improves health status in males with COPD: a randomized controlled trial  
Caroline Maschio de Censo (São Paulo, Brazil), Eloise Arruda Santos, Thiago Fernandes, Rafaela Fagundes Xavier, Regina Carvalho-Pinto, Rafael Stelmach, Celso Ricardo Fernandes Carvalho |
| PA336 | Relationship between fatigue, physical activity and health-related factors in COPD  
Joana Cruz (Lisboa, Portugal), Ana Vieira, Diana Dias, Eunice Miguel, Telma Matos, Sofia Flora, Cândida G. Silva, Nuno Morais, Ana Oliveira, Rúben Caceiro, Fernando Silva, José Ribeiro, Sónia Silva, Vitória Martins, Carla Valente, Chris Burtin, Dina Brooks, Aila Marques |
| PA337 | The effect of the Belgian COVID-19 lockdown on the rehabilitation of patients with respiratory diseases  
Fien Hermans (Gent, Belgium), Bihiyaga Salhi, Evelien De Bureck, Katlijne Geureckx, Wendy Van Loo, Patrick Calders, Eric Derom, Heleen Demeyer |
| PA338 | The effects of COVID-19 outbreak on quality of life, physical activity level, dyspnea, lower extremity muscle endurance and falling risk in asthmatic elderly.  
Elif Develi (İstanbul, Turkey), Ash Yeral, Ayça Yagcioglu, Sahra Can Sirvan, Hande Besna Gocen, Ata Teken, Dogukan Tongar, Yasar Kucukardalı, Feryal Subasi |
| PA339 | Impact of social distancing during the COVID-19 pandemic on clinical outcomes of patients with interstitial lung disease  
Gabriela Garcia Krinski (Londrina-PR, Brazil), Larissa Dragonetti Bertin, Camile Ludovico Zamboti, Thatielle Garcia, Heloise Angélico Pimpão, Heloíza Dos Santos Almeida, Bruna Luiza Silva Tavares, Nidia Hernandez, Marcos Ribeiro, Fabio Pitta, Carlos Augusto Camillo |
| PA340 | Physical activity in patients with lung disease over COVID-19 lockdown  
Nicola Sante Diciolla (Madrid, Spain), Alba Real-Rodríguez, Ana Filipa Machado, Cristina Jácome, Alejandro Quintela-Del Rio, Jaime Cabo-Tabernero, Ana Lista-Paz |
| PA341 | The relationships between the fear of COVID-19 and perceived stress and dyspnea during the COVID-19 pandemic in patients with COPD: Preliminary findings of a prospective study  
Ridvan Aktan (Balıkesir (İzmir), Turkey), Sevgi Ozalevi, Hazal Yakut, Büşra Alkan, Aylin Ozeigen Alpaydin |
| PA342 | Investigation Of The Dyspnea Perception In The Elderly Who Underwent Home Quarantine Due To Covid-19 Pandemics in Turkey  
Büket Barutçu Akinci (İstanbul, Turkey), Sena Karaduman, Sümayye Seferoğlu, Rauf Meteşan Yalçın, Buse Özenç, Özgür Şahin, Büşra Sultan Öztürk, Eda Özkan |
| PA343 | Impact of COVID-19 pandemic on sleep quality in adults with asthma  
| PA344 | Association of sleep quality with clinical outcomes of adults with asthma during the COVID-19 pandemic  
Pre-congress content  
Session 86  
13:15 - 14:15

E-poster: Novel imaging analysis methodologies in diffuse lung diseases

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** Imaging, Public health, General respiratory patient care, Respiratory intensive care

**Tag(s):** COVID, Digital health

**Chairs:** Helmut Prosch (Wien, Austria), Licia Zanol Lorenzini Stanzani (Lisbon, Portugal)

---

PA347  
**The utility of the Gho scale in the tomographic evaluation of severe COVID 19 and its correlation with biomarkers.**
Angel Emmanuel Vega-Sanchez (Ciudad de Mexico, Mexico), Mayra Mejia, Diego Alexis Garcia-Estudillo, Jorge Rojas-Serrano, Heiddegger Mateos-Toledo, Andrea Estrada-Garrido, Jonathan Saul Castillo-Pedroza, Pedro Abisay Rivera-Matias

PA348  
**Label-free analysis of experimental lung fibrosis using multiphoton microscopy and Raman spectroscopy**
Ingo Ganzleben (Erlangen, Germany), Lucas Kreiß, Alexander Mühlberg, Oliver Friedrich, Markus F. Neurath, Sebastian Schürmann, Maximilian Waldner

PA349  
**The effect of exacerbations on lung density in relation to patient characteristics in the RAPID-RCT trial of alpha-1 antitrypsin therapy**
Charlie Strange (Charleston, United States of America), N. Gerard McElvaney, Claus F. Vogelmeier, Marcos Marin-Galiano, Michaela Haensel, Xiang Zhang, Younan Chen, Oliver Vit, Marion Wencker, Kenneth Chapman

PA350  
**Proton MRI assessment of lung structure and function in people with cystic fibrosis**
Jonathan Brooke (Nottingham, United Kingdom), Shahideh Safavi, Andrew P Prayle, Christabella Ng, Jan Paul, Christopher Bradley, Andrew Cooper, Samal Munidasa, Brandon Zanette, Giles E Santyr, Helen Barr, Giles Major, Alan Smyth, Penny Gowland, Susan Francis, Ian P Hall

PA351  
**The severity of lung involvement in systemic sclerosis expressed as a Warrick score differs depending on the HRCT scan procedure**
Össur Ingi Emilsson (Uppsala, Sweden), Angelica Desse, Henrik Johansson, Shamisa Adeli, Andrei Malinovschi, Maija-Leena Eloranta, Tomas Hansen

PA352  
**Innovative application of artificial intelligence to pre-screen COVID-19 from digital chest radiographs – our experience in a tertiary care setup**
Pranav Ajmera (Pune, India), Amit Kharat, Deepak Patkar, Mitusha Verma

PA353  
**Imaging Ventilation In Awake Non-sedated Pre-school Children With Free-Breathing Upright Proton MRI.**
Andrew Prayle (Nottingham (Nottinghamshire), United Kingdom), James Harkin, Andrew Cooper, Michael Barlow, Shahida Safavi, Penny Gowland, Alan Smyth, Ian Hall

PA354  
**Late Breaking Abstract - Prognostic value of pulmonary artery diameter as a measure of right ventricular strain in hospitalized Covid-19 patients**
Moussa Riachy (Beyrouth, Lebanon), Fadi Farah, Mohamed Awali, Anis Ismail, Noel Aoun, Albert Riachy, Elio Mekhail, Karim El Hoyek, Nabil Nassim, Ghassan Sleilaty

PA355  
**Late Breaking Abstract - Digital tomography in the diagnosis of a posterior pneumothorax in the intensive care unit (ICU)**
Shauni Wellekens (Aalst, Belgium), Joop Jonckheer, Nico Buls, Johan De Mey

PA356  
**A fully automated cardiac magnetic resonance (CMR) assessment improves the evaluation of patients with pulmonary arterial hypertension (PAH)**
Samer Alabed (Sheffield, United Kingdom), Kavita Karunasagarar, Faisal Alandejani, Mahan Salehi, Ziad Aldabbagh, Pankaj Garg, Johanna Uthoff, Haiping Lu, Jim Wild, David Kiely, Rob Van Der Geest, Andy Swift
The correlation between the results of 99m Tc-technetir accumulation and MSCT data in granulomatous lung diseases  
Rasul Amansahedov (Moscow, Russian Federation), Elena Vasilenko, Natalya Karpina, Anatoliy Sigaev, Atadzhan Ergeshov

Prognostic impact of pleuropulmonary pathologies in the early phase of acute pancreatitis.  
Ina Luiken (Halle (Saale), Germany), Stephan Eisenmann, Jakob Garbe, Johannes Dober, Walter Alexander Wohlgemuth, Richard Brill, Patrick Michl, Jonas Rosendahl, Marko Damm

Artificial intelligence to optimize pulmonary embolism diagnosis during covid-19 pandemic by perfusion SPECT/CT, a pilot study  
Sonia Baeza (Barcelona, Spain), Roger Domingo, Maite Salcedo-Pujantell, Jordi Deportós, Gloria Moragas, Ignasi Garcia-Olivé, Carles Sanchez, Debora Gil, Antoni Rosell

A retrospective study comparing a quantifying Artificial Intelligence-based scoring system with a visual scoring system to determine the lung injury in COVID-19 disease.  
Charlotte Biebaû (Leuven, Belgium), Adriana Dubbeldam, Lesley Cockmartin, Walter Coudyzer, Johan Coolen, Johny Verschakelen, Walter De Wever

Prediction of outcome in COVID-19 patients based on clinical and radiomics chest CT data  
Ralph T.H. Leijenaar (Lierge, Belgium), Julien Guiot, Akshaya Vaidyathan, Fadila Zerka, Louis Deprez, Denis Dantinne, Anne-Noëlle Frix, Fabio Bettari, Monique Henket, Stephane Mathieu, Philippe Lambin, Sean Walsh, Mariaelena Occhipinti, Benoit Misset, Louis Renard, Paul Meunier, Wim Vos, Pierre Lovinfosse

Validation of remote dielectric sensing (ReDS) in COVID-19  
Federico Mei (Ancona (AN), Italy), Alessandro Di Marco Berardino, Martina Bonifazi, Lina Zuccatosta, Stefano Gasparini

Role of adaptive immunity in clinical variability of active tuberculosis patients  
Carla Maria Irene Quarato (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Karin Del Vecchio, Antonio Laricchiuta, Maria Cristina Colanardi, Ernesto Giuffreda, Piergiuseppe Bonfitto, Maria Pia Foschino Barbaro

Pre-congress content

E-poster: Pathophysiology and clinical consequences of obstructive sleep apnoea

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Sleep and breathing disorders

Method(s): General respiratory patient care Cell and molecular biology Physiology Epidemiology Pulmonary function testing

Chairs: Athanasia Pataka (Thessaloniki, Greece), Adriano Targa (Lleida, Spain)

The platelet-lymphocyte ratio as a marker of the severity of the obstructive sleep apnea-hypopnea syndrome: fact or fiction?  
Esma Jameleddine (Tunis, Tunisia), Souha Kallel, Khouloud Kchaou, Mohamed Amine Chaabouni, Malek Mnejja, Ilhem Charfeddine

Bicarbonate venous blood level in obstructive sleep apnea syndrome: Any correlation with nocturnal hypoxia?  
Hana Mrassi (Tunis, Tunisia), Islam Mejri, Samira Mhamdi, Salsabil Dabboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui

Bone metabolism and fracture risk in obstructive sleep apnea  
Daniela Krasimirova (Sofia, Bulgaria), Ventislava Pencheva, Ognyan Georgiev, Daniela Petrova, Radoslav Bilyukov, Tzanko Mondeshki, Sevda Naydenska, Petko Shoshkov, Adelina Tzakova

Disregulation of iron metabolism and atherosclerotic changes in Obstructive sleep apnoea  
Ventislava Pencheva Genova (Sofia, Bulgaria), Victor Manolov, Ognian Gergiev, Vasil Vasilev, Savina Hadjidekova, Latchezar Traykov, Kamen Tzatchev

Dehydroepiandrosterone's neurocognitive correlates in male patients with Obstructive Sleep Apnea Syndrome: A preliminary report  
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, George Vavougios, Vasileios Stavrou, Zoe Daniil, Evdoxia Gogou, Chaido Pastaka, Chrysa Hatzoglou, Konstantinos Gourgoulannis

Differences in glucose/lipid metabolic factors between obese/non-obese subjects with higher apnea-hypopnea index  
Masako Ueyama (Tokyo, Japan), Hiroyuki Kokuto, Hiroshi Kimura, Shinichi Oikawa, Hitoshi Sugihara, Fumio Suzuki, Ken Ohta
PA370 Triglyceride-glucose index in non-diabetic, non-obese patients with obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Stefan Frent, Martina Meszaros, Laszlo Kunos, Alexander Mathioudakis, Alina Gabriela Negru, Stefan Mihaicuta

PA371 Body surface area as a tool for predicting the severity of obstructive apnea hypopnea syndrome
Esma Jameeddine (Tunis, Tunisia), Souha Kallel, Khouldou Kchaou, Marwa Regaig, Sirine Ayadi, Malek Mnejja, Ilhem Charfeddine

PA372 Relationship between neck fat volume and severity of obstructive sleep apnea
Glenda Ernst (Ciudad Autónoma Buenos Aires, Argentina), Pablo Dalzotto, Martin Ferraro, Alejandro Salvado, Eduardo Borsini

PA373 Exploring the relationship between respiratory muscle strength and the apnea-hypopnea index: A preliminary report.
K GOURGOULIANIS (ΑΑΡΗΣΑ, Greece), Vasileios Stavrou, Kyriaki Astara, George Vavougios, Eleni Karetsi, Dimitra Siachpazidou, Erini Papayianni, Zoe Daniil, Konstantinos Gourgoulians

PA374 Prevalence of Cardiometabolic Disease in the Greek Sleep Apnea Patients Cohort
Dimitra Siopi (Thessaloniki, Greece), Georgia Trakada, Vlasios Dimitriadi, Anastasia Amfilochiou, Vasiliki Paschidou, Christina Alexopoulou, Georgia Varsou, Athanasios Konstantinidis, Paschalis Steiropoulos, Athanasia Patakou, Christos Karachristos, Michalis Agrafiotis, Anastasia Chasiotou, Chariklea Tselep, Anastasios Kallianos, Maria Fountoulaki, Athanasios Gournis, Konstantinos Porpodis, Eumorfia Kondili, Pantelis Natsiavas, Venetia Tsara

PA375 Comorbidities associated with sleep apnea - a nested case-control study in hospitalized patients
Florent Baty (St. Gallen, Switzerland), Maurice Moser, Otto Schoch, Martin Brutsche

PA376 Thyroid Functions in Obstructive Sleep Apnea Patients
Seda Beyhan Sagmen (Istanbul, Turkey), Omer Zengin, Nesrin Kiral, Ali Fidan, Sevda Sener Comert

PA377 Apnea-hypopnea index of 4 per hour serves as a metabolomic breakpoint in patients referred for polysomnography
Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Ketlin Veevall, Ragne Tamm, Triin Laurits, Ursel Soomets, Alan Altraja

PA378 C1H can induce liver macrophage M2 polarization
YINA WANG (CHANGSHA, China), YINA WANG, Yayong Li, Jingjie Kuang

PA379 Effects of chronic intermittent hypoxia caused by obstructive sleep apnea on elderly mice
Heayon Lee (Seoul, Republic of Korea), Sei Won Kim, In Kyoung Kim, Chang Dong Yeo, Hee Young Kwon, Sang Haak Lee

PA380 Effect of aging on gut microbiota, intestinal permeability and inflammation in a mouse model of obstructive sleep apnea
Isaac Almendros (Barcelona, Spain), Lidia Sanchez-Alcoholado, Isaac Plaza-Andrade, David Gozal, Ramon Farre, Maria I Queipo-Ortuño

PA381 Quality of life impairment in patients with obstructive sleep apnea
Imen Touil (Mahdia, Tunisia), Touil Imen, Omrane Amira, Ksissa Souhir, Brahem Yosra, Keskes Boudawara Nadia, Boucharbe Soumaya, Baili Hassen, Bouzgarrou Lamia, Knani Jalel, Bousoffara Leila

PA382 Daytime sleepiness and quality of life in patients with obstructive sleep apnea
Imen Touil (Mahdia, Tunisia), Touil Imen, Soumaya Boucharbe, Souhir Ksissa, Nadia Keskes Boudawara, Yosra Brahem, Hassen Baili, Jalel Knani, Leila Boussoffara

Pre-congress content
Session 88 13:15 - 14:15

E-poster: Biomarkers and e-health in idiopathic interstitial pneumonia

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Interstitial lung diseases

Method(s): Cell and molecular biology  Physiology  Pulmonary function testing  General respiratory patient care  Imaging  Endoscopy and interventional pulmonology  Pulmonary rehabilitation

Tag(s): Digital health

Chairs: Argyris Tzouvelekis (Athens, Greece), Irina Ruxandra Strambu (Bucuresti (Sector 5), Romania)

PA384 Blood Krebs von den Lungen-6 predicts mortality in patients with acute exacerbation of interstitial lung disease
Myeong Geun Choi (Seoul, Republic of Korea), Jung-Ki Yoon, Sun Mi Choi, Jung-Keen Song
PA385  Serum concentrations of KL-6 in patients with IPF and lung cancer and serial measurements of KL-6 in IPF patients treated with antifibrotic therapy
Miriana d’Alessandro (Siena, Italy), Laura Bergantini, Paolo Cameli, Maria Pieroni, Rosa Metella Refini, Piersante Sestini, Elena Bargagli

PA386  Identifying serum molecular biomarkers that distinguish emphysema and early fibrotic interstitial lung disease.
Christman Ihuoma (Edinburgh, United Kingdom), Alexander Przybylski, Cecilia Boz, Feng Li, Edwin Van Beek, Nik Hirani

PA387  Differential expression of PD-1/PD-L1 axis and CD4/CD8 ratio in mediastinal lymph nodes of patients with idiopathic pulmonary fibrosis and lung cancer
Theodoros Karampitsakos (Patras, Greece), Serafeim Chrysikos, Ioannis Vamvakaris, Ourania Papaoianou, Evangelos Bouros, Vasiliis Tzilas, Matthaios Katsaras, Katerina Dimakou, Efrosyni Manali, Spyridon Papiris, Demosthenes Bouros, Petros Bakakos, Argyris Tzouvelekis

PA388  Blood leukocyte levels as potential prognostic markers in IPF
Andrew Achaiah (Oxford, United Kingdom), Andrea Pereira, Harriet Bothwell, Kritica Dwivedi, Armlia Rathnapala, Rosia Barker, Valentina Iotchkova, Rachel Hoyles, Ling-Pei Ho

PA389  Predicting IPF outcomes: lung function evaluation by %predicted and z-score
Piotr Boros (Warszawa, Poland), Ming Yang, Klaus-Uwe Kirchgaessler, Magdalena Martusewicz-Boros

PA390  PD-1 expression in patients with idiopathic pulmonary fibrosis.
Sissel Kronborg-White (Lystrup, Denmark), Line Bille Madsen, Elisabeth Bendstrup, Venerino Poletti

PA391  Activated lymphoid follicles, sign of an immune response, are present in early idiopathic pulmonary fibrosis (IPF) and increase with disease progression.
Elisabetta Cocconcelli (Padova (PD), Italy), Grazziella Turato, Erica Bazzan, Alvise Casara, Giordano Fiorentì, Fiorella Calabrese, Federico Rea, Alessandro Sanduzzi, Manuel G Cosio, Marina Saetta, Paolo Spagnolo, Elisabetta Balestro

PA392  Lymphocyte to monocyte ratio (LMR) predicts survival in patients with Idiopathic Pulmonary Fibrosis (IPF).
Nicol Bernardinello (Trecenta (RO), Italy), Giulia Grisostomi, Elisabetta Cocconcelli, Gioele Castelli, Davide Biondini, Marina Saetta, Paolo Spagnolo, Elisabetta Balestro

PA393  Elevated leukocyte count predicts survival in patients with idiopathic pulmonary fibrosis: analysis from the Swedish and Japanese cohorts
Jing Gao (Stockholm, Sweden), Dimitrios Kalafatis, Hiroshi Iwamoto, Hiroki Tanahashi, Kakuhiro Yamaguchi, Yasushi Horimasu, Lisa Carlson, Ida Pesonen, Noboru Hattori, Magnus Skold

PA394  Autoantibodies in Interstitial Lung Diseases
Asli Bostanoglu (Ankara, Turkey), Gokhan Celik

PA395  A systematic review and individual participant data meta-analysis of MMP-7 and outcomes in idiopathic pulmonary fibrosis
Fasihul Khan (Nottingham, United Kingdom), Fasihul Khan, Iain Stewart, Gauri Saini, Karen A Robinson, Gisli Jenkins

PA396  Feasibility of home spirometry in patients with Interstitial lung disease (ILD) during the COVID-19 pandemic
Andrew Achaiah (Oxford, United Kingdom), Carmine Ruggiero, Vishal Nthawani, Emily Fraser, Rachel Hoyles, Peter Saunders

PA397  Cost-effectiveness of an online homemonitoring program in idiopathic pulmonary fibrosis

PA398  Real world patient experience of home spirometry within a UK ILD centre
Carmine Ruggiero (Oxford, United Kingdom), Shakila Hussain, Andrew Achaiah, Emily Fraser, Peter Saunders, Rachel K Hoyles

PA399  STARLINER study; patients’ and doctors’ experiences with a digital eco-system
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup, Claudia Valenzuela, Michael T. Henry, Monica Bensus, Frank Gilberg, Klaus-Uwe Kirchgaessler, Carlo Vancheri

PA400  Quality of life improvement after one-year integral home-care program in IPF patients that receive nintedanib
Cristina Ruiz Herrero (Hospitalita del Llobregat, Spain), Laura Cobo Sanchez, Karina Portillo, Ana Boldova Lorscetales, Alejandro Robles, Jesus Arribas, Jose A Figuerolà, Rosana Blavia, Yolanda Belmonte, Amalia Moreno, Diego Castilidd, Anna Villar, Diana Badenes, Danny Zayas, Guillermo Suarez, Laia Garcia, Eva Baclells, Ischeo Sellars, Yohana Garcia, Silvia Barril, Jordi Sans, Mireia Serra, Damià Perich, Lluís Esteban, J Dorca, Paulina Cerda-Cortes, Josep Palma, Esther Ruiz, Maria Molina Molina

PA401  EPIDIA: an App to to assist physicians in the care of patients with interstitial lung diseases
Gabriela Claudia Tabaj (Ciudad Autónoma Buenos Aires, Argentina), Brenda Varela, Lucas Sheridan
### E-poster: Hypoxia, exercise and respiratory function in pathophysiological conditions

**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** Physiology, Cell and molecular biology, General respiratory patient care, Pulmonary function testing, Pulmonary rehabilitation, Imaging, Endoscopy and interventional pulmonology

**Tag(s):** Digital health

**Chairs**: Samuel Verges (Grenoble, France), Christina M. Spengler (Zürich, Switzerland)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA403</td>
<td>Time course of cerebral oxygenation in highlanders: 5-year prospective study.</td>
<td>Matthias Cornelius Luyken (Heidelberg, Germany), Paula Appenzeller, Philipp M Scheiwiller, Mona Lichtblau, Maamed Mademilov, Aybnerg Muratbekova, Ulan Sheraliev, Aiunra Abdraeya, Nuriddin H Marzahapov, Talant M Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch, Michael Furian</td>
</tr>
<tr>
<td>PA404</td>
<td>Effect of fast ascent, acclimatization and re-exposure to 5050m on cerebral autoregulation in lowlanders. A prospective cohort study.</td>
<td>Laura Graf (Zürich, Switzerland), Sara E Hartmann, Mona Lichtblau, Lara Muralt, Patrick R Bader, Ivan Lopez, Jean M Rawling, Silvia Ulrich, Konrad E Bloch, Marc J Poulin, Michael Furian</td>
</tr>
<tr>
<td>PA405</td>
<td>Cardiopulmonary exercise testing as non-invasive tool for CTEPH treatment effect assessment</td>
<td>Maria Simakova (St. Petersburg, Russian Federation), Irina Zlobina, Aelita Berezena, Konstantin Pishchulov, Narek Marykyan, Ola Moiseeva</td>
</tr>
<tr>
<td>PA406</td>
<td>Effect of oxygen on blood pressure response to altitude exposure in COPD</td>
<td>Martina Meszaros (Zürich, Switzerland), Martina Meszaros, Tsogayl D Latshang, Sayaka Aeschbacher, Fabienne Huber, Deborah Flueck, Mona Lichtblau, Stefanie Ulrich, Elisabeth D Hasler, Philipp Scheiwiller, Silvia Ulrich, Konrad Bloch, Michael Furian, Esther Irene Schwarz</td>
</tr>
<tr>
<td>PA407</td>
<td>Effects of oxygen supplementation in autonomic nervous system function during exercise in patients with idiopathic pulmonary fibrosis and exertional desaturation</td>
<td>Afroditi Boutou (Thessaloniki, Greece), Konstantina Dipla, Katerina Markopoulou, Georgia Pitsiou, Stavros Papadopoulos, Stella Kritikou, Diamantis Chloros, Ioannis Kioumis, Ioannis Stanopoulos, Andreas Zafeiridis</td>
</tr>
<tr>
<td>PA408</td>
<td>Comparative response to incremental cardiopulmonary exercise testing in patients with uni- and bilateral diaphragm dysfunction</td>
<td>Gao Sheng Huang (Montreal, Canada), Bruno-Pierre Dubé</td>
</tr>
<tr>
<td>PA409</td>
<td>Skeletal muscle afferent sensitivity in Interstitial Lung Disease-interim analysis of a randomized cross-over study</td>
<td>Charlotte Chen (Auckland, New Zealand), John Kolbe, Julian Paton, Margaret Wilsher, Sally De Boer, James Fisher</td>
</tr>
<tr>
<td>PA410</td>
<td>Tobacco smoking in asthma patients with exercise-induced bronchoconstriction is associated with greater desaturation during dosed exercise</td>
<td>Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Nakhamchen, Anna G. Prikhodko</td>
</tr>
<tr>
<td>PA411</td>
<td>Checking true VO2max values by supramaximal exercise testing: physiological insights</td>
<td>Maria Cecilia Moraes Frade (Ribeirão Preto, Brazil), Thomas Beltrame, Mariana De Oliveira Gois, Ariane Petronilho, Stephanie Nogueira Linares, Silvia Cristina Garcia Moura De Tonello, Aparecida Maria Catai</td>
</tr>
<tr>
<td>PA412</td>
<td>Beta-adrenergic blockade effects on aerobic capacity and chronotropic response</td>
<td>Kevin Forton (Bruxelles, Belgium), Michel Lamotte, Alexis Gillet, Vitalie Faoro</td>
</tr>
<tr>
<td>PA413</td>
<td>Air travel in chronic lung disease: can clinical variables predict response to the hypoxic challenge test?</td>
<td>Marie-Camille Soucy-Giguere (Montreal, Canada), Bruno-Pierre Dubé</td>
</tr>
<tr>
<td>PA414</td>
<td>Patients’ opinions of remote exercise capacity testing in pulmonary hypertension</td>
<td>Harrison Stubbs (Glasgow, United Kingdom), Martin Johnson</td>
</tr>
<tr>
<td>PA415</td>
<td>Entropy generation changes during exercising comparing lungs of male and female subjects</td>
<td>Jale Çatak (İstanbul, Turkey), Elif Develi, Serkan Bayram</td>
</tr>
<tr>
<td>Abstract ID</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>PA416</td>
<td>Effects of exercise training on functional performance in fibrosing interstitial lung diseases</td>
<td>Hatem Essam Hamed Rizq (Alexandria, Egypt), Gihan Younis, Hanaa Shafiek, Enas Elsayed, Nashwa Hassan Abdel Wahab</td>
</tr>
<tr>
<td>PA417</td>
<td>The heart rate variability analysis during a virtual reality exercise test</td>
<td>Sebastian Rutkowski (Opole, Poland), Patryk Szary, Jerzy Sacha, Richard Casaburi</td>
</tr>
<tr>
<td>PA418</td>
<td>Nocturnal cerebral oxygenation in patients with COPD at altitude - effect of acetazolamide</td>
<td>Michael Furian (Zürich, Switzerland), Yaël Anne Schmuziger, Maamed Mademilov, Aline Buergin, Philipp M Scheiwiller, Laura Mayer, Simon R Schneider, Mona Lichtblau, Konstantinos Bitos, Lara Muralt, Alexandra Groth, Ulan Seraliev, Nuriddin H Marazhapov, Azamat Akylbekov, Gulzada Mirzalieva, Alena Oleinik, Talant M Sooronbaev, Silvia Ulrich, Konrad E Bloch</td>
</tr>
<tr>
<td>PA419</td>
<td>Effect of exercise training on cerebral oxygenation and affects during exercise in obesity</td>
<td>Mathieu Marillier (Echirolles, France), Anna Borowik, Sarmanmar Chacaroun, Sébastien Baillieul, Stéphane Douteleau, Michel Guinot, Bernard Wuyam, Renaud Tamisier, Jean-Louis Pépin, François Estève, Samuel Vergès, Damien Tessier, Patrice Flore</td>
</tr>
<tr>
<td>PA420</td>
<td>Laryngoscopy can guide inspiratory muscle training (IMT) in exercise induced laryngeal obstruction (EILO).</td>
<td>Petrine Solli Veierod (Bergen, Norway), Haakon Kvidaland, Praveen Muralitharan, Petter Carlsen, Maria Vollsæter, Tiina Andersen, Sigrun Hjelle, Thomas Halvorsen, Ola Orge, Hege Clemm</td>
</tr>
<tr>
<td>PA421</td>
<td>The impact of Beta Blockade on cardio-respiratory system and symptoms during exercise</td>
<td>Eldar Priel (Dundas, Canada), Imran Satia, Kieran J. Killian</td>
</tr>
<tr>
<td>PA422</td>
<td>Late Breaking Abstract - Spatial response to small and large particle bronchodilator in subjects with asthma</td>
<td>Claire O'Sullivan (Birmingham (West Midlands), United Kingdom), Kris Nilsen, Kim Prisk, Andreas Voskrebzenz, Jens Vogel-Claussen, Bruce Thompson</td>
</tr>
</tbody>
</table>

**Pre-congress content**  
**Session 90**  
**13:15 - 14:15**

**E-poster: Thoracic surgery, lung cancer and complications of COVID-19**

**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s)**: COVID

**Chairs**: Peter Yablonsky (St. Petersburg, Russian Federation), Sandra LINDSTEDT (Lund, Sweden)

<table>
<thead>
<tr>
<th>Abstract ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA423</td>
<td>Mathematical Analysis of Relationships Between Airflows and Intrapleural Pressures After Video-Assisted Lobectomies&gt;</td>
<td>Luca Bertolaccini (Milan, Italy), Nicola Rotolo, Andrea Imperatori, Angelo Morelli, Marco Chiappetta, Stefano Margaritova, Marcello Carlo Ambrogi, Marco Lucchi, Diego Gavezzoli, Mauro Benvenuti, Gino Zaccagna, Lorenzo Spaggiari, Roberto Crisci</td>
</tr>
<tr>
<td>PA424</td>
<td>Impact on survival of station 9 and necessity of inferior pulmonary ligament dissection in upper lobectomy for lung cancer</td>
<td>Serkan Yagzlan (Izmir, Turkey), Ahmet Ucvet, Yunus Turk, Sener Gursoy</td>
</tr>
<tr>
<td>PA425</td>
<td>Morphological changes in cicatrical stenosis of the trachea. The effect of long-term endoprosthesi</td>
<td>Rustem Hayaliyev (Tashkent, Uzbekistan), Iskander Baybekov, Otabek Eshonkhodjaev, Shuhrat Khudaybergenov</td>
</tr>
<tr>
<td>PA426</td>
<td>Tracheal stenosis. One region experience</td>
<td>Igor Motus (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Nadezhda Giss, Igor Medvensky, Olga Konstantinova</td>
</tr>
<tr>
<td>PA427</td>
<td>Organ-saving method of surgical treatment (intrapleural excision of the external wall of the cavity and suturing of the draining bronchi) of patients with chronic cavities of the lungs&gt;</td>
<td>Irina Orlova (Minsk, Belarus)</td>
</tr>
<tr>
<td>PA428</td>
<td>The role of halogenated inhalation anesthetics in the organization of gas exchange function of the lungs in thoracic surgery.</td>
<td>Dmitry Kabakov (Moscow, Russian Federation), Margarita Vyzhigina, Dmitry Bazarov, Andrey Zaytsev, Alexey Kavochkin, Svetlana Zhukova</td>
</tr>
</tbody>
</table>
Pre-congress content

Session 91  13:15 - 14:15

E-poster: Diagnosis and management of COVID-19

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Imaging, General respiratory patient care, Epidemiology, Respiratory intensive care, Public health, Pulmonary rehabilitation

Tag(s): COVID, Digital health

Chairs: Dimitrios Toumanakis (Athens, Greece), Maria Ada Presotto (Heidelberg, Germany)

PA441 Passive Microwave Radiometry (MWR) for diagnostics of COVID-19 lung complications in Kyrgyzstan.
Batyr Osmonov (Bishkek, Kyrgyzstan), Lev Ovechinnikov, Christopher Galazis, Berik Emilov, Mustafa Karaibragimov, Meder Seitov, Igor Goryanin

PA442 Local incidence and outcomes of patients with pneumothorax and pneumomediastinum in COVID-19
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson
PA443 What can we learn about oxygen therapy from the Nightingale North West experience? Stephanie Stolberg (Manchester, United Kingdom), Sakina Ali, Sarah Sibley

PA444 Oximetry and acid-base balance features in pregnant women with pneumonia caused by SARS-COV-2 Irina A. Andrievskaya (Blagoveshchensk, Russian Federation), Irina V. Zhukovets, Viktor S. Bardov, Natalia A. Ishutina, Inna V. Dovzhikova, Anton S. Abudlinov, Karen S. Lyazgian, Victor P. Kolosov

PA445 Happy Hypoxia: A case series Tarang Kulkarni (Mumbai (Maharashtra), India), Manas Mengar, Alpa Dalal

PA446 The implementation of routine breathlessness and cough scoring in a virtual early supported discharge service for COVID-19. Katie Rhatigan (Denmark Hill, United Kingdom), Caroline J Jolley, Jacqui Fenton, Savannah Ramos-Smyth, Martha Ford-Adams, Amit Patel, Peter S Cho, Irem Patel, Surinder S Birring

PA447 Point-of-care anti-SARS-CoV-2 antibody testing: results from the PRACTICES Study Gabriella Long (Hayling Island (Hampshire), United Kingdom), Mohammed Munavvar

PA448 Appropriately timed COVID-19 PCR testing for hospital inpatients. Zaheer Raffeeq (Newcastle, United Kingdom), Nawaid Ahmad, Emma Crawford, Devapiya Dev, Annabel Makan, Koottalai Srinivasan, Harmesh Mudgil

PA449 Diagnostic value of high fever to predict polymerase chain reaction (PCR) status in patients with Novel Coronavirus (COVID-19) pneumonia Emel Cireli (Izmir, Turkey), Aydan Mertoğlu, Günseli Bulcu, Aylin Bayram, Nil Kuranoğlu, Ali Kadri Çırák, Özlem Ediboğlu, Gülru Erbay Polat

PA450 Protective effect of BCG revaccination in health care workers against COVID-19: A Myth or Game Changer? Sonali Saini (Panchkula (Haryana), India), Dps Sudan, Sachet Dawar, Adil Jokhi

PA451 Clinical features and outcome of COVID-19 pneumonia in haemodialysis patients Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Marco Bongiovanni, Angelo De Lauretis, Alessandro Maria Marra, Alessandra Pistone, Noemi Grassi

PA452 Late Breaking Abstract - Treatment with ATYR1923 reduces biomarkers in COVID-19 pneumonia Ryan Adams (San Diego, United States of America), Gennyne Walker, Lauren Guy, Lauren Sitts, Nelson Kinnersley, Lisa Carey, Leslie Nangle, Sanjay Shukla


PA454 Treatment With Baricitinib for Patients With COVID-19 Infections: A Case-Series Study Claudia Ravaglia (Forlì, Italy), Sara Picucci, Stefano Oldani, Lara Bertolovic, Serena Bensai, Cristiano Colinelli, Siro Simoncelli, Corrado Ghirotti, Silvia Puglisi, Luca Donati, Gianfranco Ravaglia, Francesco Landi, Marina Terzitta, Venerino Poletti

PA455 Effectiveness of corticosteroids on HRCT features of COVID 19 pneumonia Cecilia Calabrese (Napoli (NA), Italy), Cecilia Calabrese, Anna Annunziata, Marianna Molloca, Pasquale Imitazione, Maurizia Lanza, Giorgio Polistina, Martina Flora, Salvatore Guarino, Cristina Palumbo, Pin Cla Pafundi, Giuseppe Fiorentino

PA456 Evaluating the accuracy of pulse oximetry: Finger probe versus earlobe probe in patients with confirmed or suspected COVID-19 within the community setting. Emma Rickards (St Helens (Merseyside), United Kingdom), Steven Miller, Onnor Hampson, Dennis Wat


PA458 Late Breaking Abstract - Biomarkers for iron metabolism among patients hospitalized with community-acquired pneumonia caused by SARS-CoV-2, bacteria, and influenza Maria Hein Hegelund (Hillerød, Denmark), Andreas Glenthøj, Camilla Koch Ryrso, Christian Ritz, Arnold Matovu Dungu, Adin Sejdic, Karoline Cecilia Knudsen List, Rikke Krogh-Madsen, Birgitte Lindegaard, Jørgen Anders Lindholm Kurtzhals, Daniel Faurcholt-Jepsen
Managing COVID-19 illness: chest radiographs support defining both prognosis and follow up.
Sadia Ahmed (Birmingham, United Kingdom), Sadia Ahmed, Zaimah Ali, Annabel Makan, Emma Crawford, Devapriya Dev, Koottalai Srinivasan, Nawaid Ahmad, Harmesh Moudgil

Pre-congress content
Session 92
13:15 - 14:15

E-poster: News in treatment and diagnosis of idiopathic interstitial pneumonia

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Interstitial lung diseases
Airway diseases

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

Chairs: Julia Wälscher (Essen, Germany), Carlo Vancheri (Catania (CT), Italy)

PA460
Real-life comparison between pirfenidone and nintedanib in patients with idiopathic pulmonary fibrosis
Paolo Cameli (Siena (SI), Italy), Laura Bergantini, Miriana D'Alessandro, Rosa Metella Refini, Maria Pieroni, Valerio Alonzi, Piersante Sestini, Elena Bargagli

PA461
Recombinant human pentraxin-2 for idiopathic pulmonary fibrosis: Design of STARSCAPE-OLE, a Phase III open label extension study

PA462
Challenges in setting up Phase III idiopathic pulmonary fibrosis studies during the COVID-19 pandemic: Experience from the STARSCAPE program
Luca Richeldi (Roma, Italy), Vincent Cottin, Lufaμ Islam, Gisli Jenkins, Nikhil Kamath, Yoshikazu Inoue, Nimesh Parmar, Jessie Randhawa, Ganesh Raghu

PA463
Real-life data on the safety and tolerability of Pirfenidone versus Nintedanib in Idiopathic Pulmonary Fibrosis (IPF) patients: A single-centre retrospective study
Lorraine Thong (Co. Cork, Ireland), Bernadette Bowen, Micheal Henry

PA464
Safety and effectiveness of mycophenolate mofetil in interstitial lung diseases
Theodoros Karampitsakos (Patras, Greece), Vasilios Tzilas, Ourania Papaioannou, Evangelia Koukaki, Matthias Katsaras, Evangelos Bouros, Panagota Tsirikos, Georgios Tsirikos, Eirini Zarkaki, Nikolaos Ntousias, Vasilina Sotiropoulou, Panagiotis Efthymiou, Serafeim Chrysikos, Elli Malakounidou, Fotios Sampsonas, Christina Kalogeropoulou, Demosthenes Bouros, Argyris Tsouvelekis

PA465
Long-term tolerability of real-life use of antifibrotic agents (AFA) in Idiopathic Pulmonary Fibrosis (IPF) patients: a real world study
Danielle Strens (Grimbergen, Belgium), Benjamin Bondue, Caroline Dahlqvist, Hans Slabbynck, Julien Guiot, Guy Joos, Nachata Gubisin, Gil Wirz, Antoine Froidure, Wim Wuyts

PA466
Concomitant corticosteroid with anti-fibrotic therapy for idiopathic pulmonary fibrosis: a prospective multicenter study
Motoyasu Kato (Tokyo, Japan), Atsushi Miyamoto, Shinyu Izumi, Minoru Inomata, Koichiro Kamio, Hiromitsu Sumikawa, Ryoko Egashira, Hiroaki Sugiuara, Jun Araya, Masahiro Takeuchi, Kazuhisa Takahashi, Arata Azuma

PA467
Mortality outcomes in patients with idiopathic pulmonary fibrosis treated with antifibrotics: a real world study
Joshua Barnes (King's Lynn, United Kingdom), Joshua Barnes, Emma Harris, Luis Matos, Katie Harding, Muhunthan Thilai

PA468
Efficacy and safety of combined use of pirfenidone and nintedanib in patients with idiopathic pulmonary fibrosis
Jin-Young Huh (Republic of Korea), Jae Ha Lee, Jin Woo Song

PA469
Phase 1 demonstrates LYT-100 (deupirfenidone) is dose-proportional and well-tolerated when given twice-daily over multiple ascending doses (MAD) and shows a minor food effect (FE)
Michael Chen (Boston, United States of America), Michael Chen, Christopher Korth, Mark Harnett, Jason Lickliter, Eric Elenko

PA470
Post-hoc analysis of DWN12088: Comparative analysis between fasting period and adverse event incidences in Healthy subjects
Min Young Park (Seoul, Republic of Korea), Junga Heo, Yukyung Kim, Jumi Han
Does the questionnaire “human activity profile” assess functional capacity in patients with idiopathic pulmonary fibrosis?
Hugo Pereira (Contagem, Brazil), Eliane Mancuzo, Giane Ribeiro-Samora, Deborah Estrella, Anna Pataro, Fabiane Rita, Faynara Pereira, Verônica Parreira

A Pilot Study on using SuperDimension when performing cryobiopsies.
Sissel Kronborg-White (Lystrup, Denmark), Elisabeth Bendsrump, Leonardo Gori, Valentina Luzzi, Line Bille Madsen, Venerino Poletti, Torben Riis Rasmussen, Marco Trigiani, Stefano Vezzosi, Sara Tomassetti

Instant diagnosing interstitial lung disease using higher harmonic generation microscopy
Laura Van Huijzen (Amsterdam, Netherlands), Kirsten Kalverda, Venerino Poletti, Peter Bonta, Marloes Groot, Jouke Annema

A prospective evaluation of lung ultrasonography in patients with fibrotic interstitial lung diseases.
Eirini Vasarmidi (Heraklion (Crete), Greece), Georgios Pitsidianakis, Evangelia E. Vassalou, Michail E. Klontzas, Apostolos H. Karantanas, Nikolaos Tzanakis, Katerina M. Antoniou

Unsupervised analysis of electronic nose data identifies patient clusters in fibrosing interstitial lung disease
Iris G. van der Sar (Rotterdam, Netherlands), Catharina C. Moor, Megan L. Luijendijk, Paul Brinkman, Anke-Hilse Maitland-Van Der Zee, Joachim G. J. V. Aerts, Marlies S. Wijsenbeek

Diagnostic yield of transbronchial lung cryobiopsy for diffuse parenchymal lung diseases diagnosis: 1.7 mm and 1.9 mm probe
Fabio Sultani (Sassari (SS), Italy), Claudia Ravaglia, Silvia Puglisi, Sara Piciucchi, Alessandra Dubini, Luca Donati, Venerino Poletti

Healthy survivor bias in patients with idiopathic pulmonary fibrosis in clinical registries.
Martina Vasakova (Praha 4, Czech Republic), Martina Sterclova, Nesrin Moğulkoç, Katerzyna Lewandowska, Veronika Müller, Marta Hajkova, Jasna Tekavec-Trkanjec, Michael Studnicka, Dragana Jovanovic, Natalia Stoeva, Klaus-Uwe Kirchgässler, Simona Littnerova, Ondrej Majek, Jakub Gregor

Effect of low dose pirfenidone on survival and lung function decline in patients with idiopathic pulmonary fibrosis (IPF): results from a real life study
Eung Gu Lee (Seoul, Republic of Korea), Tae-Hee Lee, Yujin Hong, Jiwon Ryoo, Jung Won Heo, Hye Seon Kang, Soon Seog Kwon, Yong Hyun Kim

Pre-congress content
Session 93 13:15 - 14:15
E-poster: Challenges of COVID-19 management at short and long-term

Aims : This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s) : Respiratory critical care Airway diseases
Method(s) : Imaging General respiratory patient care Epidemiology Public health Respiratory intensive care
Tag(s) : COVID

Late Breaking Abstract - The revival of lactate dehydrogenase (LDH) in predicting the severity of lung involvement and pneumomediastinum in hospitalized Covid-19
marc raad (Beyrouth, Lebanon), Hind Eid, Rashad Ibrahim, Antoine Kik, Richard Haouchan, Nabil Nassim, Karim Hoyek, Georges Khayat, Fadi Haddad, Ghassan Sleilaty, Moussa Riachy

Late Breaking Abstract - Prone-Positioning in Awake, Non-Intubated Patients with COVID-19 Hypoxemic Failure: A Single-Center Trial
Aaron Duncan (Skerries, Ireland), Dzufar Halim, Khalid Elkholly, Sile Toland, Imran Sulaiman

Late Breaking Abstract - Resolution of radiological changes on follow up chest x-ray at 6 to 12 weeks post Covid pneumonitis in a UK district general hospital
Asad Anwar (Guildford, United Kingdom), Euan Tubman, William Mclean, Mark Ingram, Jessica Scott-Taggart, Clare Alexander

Late Breaking Abstract - Recovering after COVID-19: 10-month follow-up data from a multidisciplinary outpatient clinic
Esther van Voorthuizen (Groesbeek, Netherlands), Jeannette Peters, Jan Verscholen, Michel Van Den Heuvel, Hanneke Van Helvoort, Jeroen Van Hees, Bram Van Den Borst
<table>
<thead>
<tr>
<th>Session 94</th>
<th>13:15 - 14:15</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre-congress content</strong></td>
<td><strong>Session 94</strong></td>
</tr>
</tbody>
</table>

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Pulmonary vascular diseases, Respiratory critical care

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

**Tag(s):** COVID

**Chairs:** Lucilla Piccari (Barcelona, Spain), Luis Jose JARA PALOMARES (Sevilla, Spain)

| PA491 | An audit of adherence to Two-Level Well’s Score in patients hospitalized with Sars-Co-V-2 with suspected Pulmonary Emboli in a University Hospital. Niamh Boyle (Celbridge, Ireland), Niall Nidonnaghain, Eoin Hunt |
| PA492 | Comparison of 3 prediction scores for diagnosis of Pulmonary Embolism Shona Christopher (Vellore, India), Richa Gupta, Barney Isaac, Devasahayam J Christopher |
| PA493 | Compliance with BTS and NICE guidelines in assessment of possible pulmonary embolism Akhtar Ali Akhtar (Barnsley (South Yorkshire), United Kingdom), M Usman, Hareem Azam |
| PA494 | Pulmonary emboli and COVID-19: an increased risk for all? Kate McLaren (Edinburgh, United Kingdom), James Tiernan, Marc Pass, Anna Lithgow, Ananda Mirchandani, Vicky Tilliridou, Julia Anderson, Andrew Page, John Murchison, Rebecca Dickinson |
| PA495 | VTE in COVID-19 inpatients not receiving higher level care Michael Carling (Newcastle, United Kingdom), Avinash Aujayeb |
Elevated D-dimer and low ferritin may help predict pulmonary emboli in mild-moderate COVID-19
Sharenja Ratnakumar (London, United Kingdom), Poppy Denniston, Michael Elliott, Darshana Nair, Alex West, Szeman Mak

Pulmonary embolism and COVID-19: a “special phenotype”? 
Javier Poyo Molina (Mutxila, Spain), José Luis Lobo Beristain, Javier Poyo Molina, Sara Beltrán De Otálora García, Sophia García Fuika, Bárbara Galaz Fernández, Begoña Lahidalga Múgica, María Nieves Hurtado De Mendoza Rubio, Miguel Ángel Sánchez De Toro, Paula Bordallo Vázquez, Clara Ortega Michel, Julia Amaranta García Fuertes

Features of patients newly diagnosed pulmonary embolism during COVID pneumonia
Aysun Şengül (Kocaeli, Turkey), Yusuf Aydemir, Derya Özaydın, Pınar Akın Kabalak, Yasemin Söyler, Hüsnü Baykal, Muazaffer Onur Turan, Ersin Akılınç, Fülsen Bozkuş, Pınar Yıldız Gülhan, Celal Satıcı, Sertaç Arslan, Mustafa Asım Demirkol, Nevim Fazlıoğlu, Aylin Çapraz, Pınar Mutlu

Pulmonary embolism in COVID-19 pneumonia patients: analysis from a dedicated outpatient setting post-hospitalization
Ana Catarina da Silva Alfaiate (Lisboa, Portugal), David Noivo, Vera Clérigo, Mafalda Silva, Paula Duarte

Prevalence and characteristics of venous thromboembolism in severe exacerbation of COPD in a tertiary care hospital in India
Soibam Pahel Meitei (Rishikesh (Uttarakhand), India), Sudheer Tale, Arjun Negi, Ruchi Dua, Rohit Walia, Sudhir Saxena

Hemorrhagic complications in patients with COVID-19. Are they unusual?
Irantzu Elorza Sagasta (Vitoria, Spain), Jose Luis Lobo Beristain, Angel Pereda Vicandi, Jose Joaquin Portu Zapirain, Marianela Hernandez Lopez, Jorge Redrado Ruiz, Paola Carolina Oliva, Igor Murga Arizabaleta, Miguel Angel Sanchez De Toro, Javier Poyo Molina, Clara Ortega Michel, Julia Amaranta García Fuertes

Covid-19 and pulmonary embolism: A heterogeneous association
Khalil Bahri (Tunis, Tunisia), Samira Mhamdi, Selsabil Daboussi, Asma Riahi, Imene Yousfi, Islam Mejri, Chiraz Aichaooua, Ziad Moatamri, Mohsen Khadhraoui

Predictors and prognostic factors in a large Pulmonary embolism series
Shona Christopher (Vellore, India), Richa Gupta, Barney Isaac, Devashayam J Christopher

Biomarkers model for prediction of hospitalisation duration and pulmonary embolism outcome
Chris Kyriakopoulos (Ioannina, Greece), Konstantinos Bartzikas, Athena Gogali, Konstantinos Tatsis, Christos Chronis, Dimitrios Potonos, Georgia Gkrepi, Konstantinos Kostikas

Should cancer be removed from sPESI score?
Mustafa Bugra Coskuner (Trabzon, Turkey), Yılmaz Bülbül, Funda Öz tuna, Tevfik Ozlu

10 year retrospective audit from Ambulatory Pulmonary embolism pathway in a tertiary hospital
Rajini Sudhir (Leicester (Leicestershire), United Kingdom), Elaine Bailie, Nisha Parmar

Follow-up of acute pulmonary embolism (PE): need for dedicated PE clinics and multidisciplinary team (MDT) meetings?
Viktoria Oakden (Stoke-on-Trent, United Kingdom), Richard Cooper, Shi Lim, Mohit Inani, Rida Jameel, Tayyab Waseem, Mohamed Zahrani, Zofriah Isiaka, Muhammad Ganaie

Histology of lung cancer and pulmonary embolism. Are they related?
Alvaro Martinez Mesa (Malaga, Spain), Eva Cabrera Cesar, Esther Sanchez Alvarez, Lorena Piñel Jimenez, Ana Maria Aguilar Alvarez, Nuria Reina Marfil

Pulmonary embolism in patients with seasonal influenza: a single centre retrospective review.
Shiva Bikmalla (Stoke-on-Trent (Staffordshire), United Kingdom), Sowmya Ekhelikar, Aaditya Kodamanchile, Asha Muthusami, Bibish Baburaj

Comparison of acute phase reactant pentraksin-3 and inflammatory parameters in acute and stable pulmonary embolism
Assiye Bûsra Çimen (istanbul, Turkey), Ayşe Fûsun Kalpaklioğlu

Pre-congress content Session 95 13:15 - 14:15
E-poster: COVID - 19: lessons learned

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Interstitial lung diseases

Method(s): General respiratory patient care, Cell and molecular biology, Respiratory intensive care, Epidemiology, Public health, Pulmonary function testing, Pulmonary rehabilitation, Physiology

Tag(s): COVID

Chairs: Brijesh Patel (London, United Kingdom), Stefan-Marian Frent (Timisoara, Romania)

PA511 Quality and methodology of clinical practice guidelines on antiviral pharmacotherapy for COVID-19 during the early phase of the pandemic
Filip Mejza (Kraków, Poland), Wiktoria Lesniak, Roman Jaeschke

PA512 Usefulness of the ILD-GAP index in predicting COVID-19 pneumonia prognosis
Sahar Chakroun (Sfax, Tunisia), Salma Mokaddem, Asma Chaker, Khoulou TDchou, Saloua Jameleddine

PA513 IL-21: A Potential Biomarker For Diagnosis and Predicting Progression in COVID-19 Patients
Nilüfer Aylin Acet Öztürk (Bursa, Turkey), Nilüfer Aylin Acet Öztürk, Ahmet Ursaş, Aslı Görek Dilektaşlı, Ezgi Demirdögen, Funda Coşkun, Dane Ediger, Esra Uzaslan, Diğdem Yören-Ermiş, Mert Karaca, Orkun Terzi, Merve Bayram, Dilara Ömer, Buğra Yiğitüleri, Ahmet Yurttaş, Shahriyar Maharramov, Gamze Çelik, Barbaros Oral, Mehmet Karadağ

PA514 The best predictor of COVID-19 pneumonia progression during lung ultrasound (LUS)
Kseniya Bielosludtseva (Dnepropetrovsk, Ukraine), Karina Fugol, Maria Krykhtina, Oksana Popova

PA515 Pneumonia severity assessment scores in COVID19 pneumonia; clinical validation in a pragmatic healthcare setting
Ellie Keramida (Athens, Greece), Eleni Bellou, Irma Bracka, Christina Gkiriouk, Spyridon Mazarakis, Theodoros Daskalos, Andreas Paraskevas, Ioannis Karampirinis, Despoina Zorpiddou, Panagiots Demertzis, Georgia Hardavella

PA516 Lymphocyte-to-Monocyte ratio (LMR) and Platelet-to-lymphocyte (PLR) ratio levels as a predictors of lung failure in severe COVID-19 pneumonia patients (pts)
Mariia Krykhtina (Dnepropetrovsk, Ukraine), Daria Koval, Tetyana Pertseva, Lyudmila Konopinka, Kseniya Bielosludtseva

PA517 Fibrinogen like the predictor of COVID-19 pneumonia progression
Bohdana Basina (Dnepropetrovsk, Ukraine), Kseniya Bielosludtseva, Tetyana Pertseva, Tetiana Kirieieva, Maria Krykhtina, Natalia Kravchenko

PA518 The use of double trunk mask to optimize oxygenation in hypoxemic patients with COVID-19: an observational study
Amandine Zellag (Saint-Etienne, France), Isabelle Court Fortune, Chrystelle Monneret, Marios Froudarakis, Elisabeth Botelho-Nevers, Pierre Labeix

PA519 Early Fever Associated with Clinical Outcomes in Patients with Coronavirus Disease 2019
Fengming Ding (Shanghai, China), Yun Feng, Lei Han, Yan Zhou, Yong Ji, Huijuan Hao, Yishu Xue, Dongning Yin, Zengchao Xu, Shan Luo, Pengyu Zhang, Min Zhang

PA520 Anosmia and ageusia good prognosis factors of COVID-19?
arbia chaieb (Tunis, Tunisia), Sarra Maazaoui, Sonia Habibech, Tasnim Zneigui, Mariem Friha, Slim Ghdira, Neder Mefteh, Hajer Racil, Nawel Chaouch

PA521 Impact of the COVID-19 pandemic on Influenza virus transmission
Sara Braga (Braga, Portugal), Marcos Oliveira, José Manuel Silva, Luís Ferreira

PA522 Willingness for vaccination against COVID19 in health care workers in Greece
Garafallia cirini Perlepe (Larissa, Greece), Dimitrios Papagiannis, George Rachiots, Foteini Malli, Ioanna V Papathanasiou, Evangelos C Fradelos, Zoe Danilii, Konstantinos I Gourgoulbanis

PA523 The use of pharmacological therapies in hospitalized COVID-19 patients– A literature review
Eileen Han (Collegeville, United States of America), Embor Lu, Anne Heyes, Josephine Maukspf, Helen Birch, Marguerite Bracher

PA524 Correlation between nasal inflammation and COVID-19 related pneumonia evaluated by nasal cytology.
Carla Santomasi (Bari, Italy), Andrea Portacci, Federica Barratta, Paola Pierucci, Silvano Dragonieri, Matteo Gelardi, Onofrio Resta, Giovanna Elisiana Carpanagno

PA525 Could KL-6 levels in COVID-19 help to predict lung disease?
Anne-Noëlle Frix (Liege, Belgium), Lauranne Schoneveld, Aurélie Ladang, Monique Henket, Bernard Duysinx, Frédérique Vaillant, Benoit Misset, Michel Moutschen, Renaud Louis, Etienne Cavalier, Julien Guiot

PA526 Factors associated with poor glycemic control in patients hospitalised for COVID-19
Stefan-Marian Frent (Timisoara, Romania), Emanuel Bobu, Roxana Pleava, Costela Serban, Iosif Marincu, Virgil Musta, Stefan Mihaiicuta, Ovidiu Fira-Mldinescu, Diana Manolescu, Cristian Oancea
PA527 COVID-19 Re-infection of Healthcare Workers, A Single Centre Study
Maside Arı (Ankara, Turkey), Kerem Ensarioğlu, Serap Duru, Bahar Kurt, Irfan Şencan, Esengül Şendağ

PA528 The association of the oxygen saturation level at the time of hospitalization with comorbidities and subsequent changes in blood biomarkers in patients with COVID-19 in Russia: observational study results.
Sophia V. Nesterovich (Tomsk, Russian Federation), Daria Vinokurova, Sergey Fedosenko, Evgeny Kulikov, Nikolay Yarovoy, Vyacheslav Korepanov, Margarita Boldyshhevskaya, Sergey Khalyavin, Ekaterina Selikhova

PA529 Differences and characteristics of COVID-19 and atypical pneumonia
Muzaffer Onur Turan (Izmir, Turkey), Sebnem Karasu, Atilla Hikmet Cilengir, Bunyamin Sertogullarından

Pre-congress content Session 96 13:15 - 14:15

E-poster: Medical education in respiratory medicine
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases Thoracic oncology Respiratory critical care
Method(s): Public health Epidemiology General respiratory patient care Pulmonary rehabilitation
Tag(s): COVID

Chairs: Giovanni Sotgiu (Porto Torres (SS), Italy), Pierantonio Laveneziana (Paris, France)

PA530 The value of a pleural fellowship post
Lewis Standing (Whitley Bay, United Kingdom), Karl Jackson, Ben Teng, Avinash Aujayeb

PA531 Comparison of physicians’ and medical students’ knowledge of bronchial asthma according to the final results of the ASSA-II study
Roman Bontsevich (Belgorod, Russian Federation), Galina Batisheva, Galina Prozorova, Irina Krotkova, Galina Ketova, Olena Myronenko, Elena Luchimina, Irina Galkina, Olga Kompaniets, Maxim Maximov, Guzel Bikkinina

PA532 Interest regarding CDC-specified risk factors of severe COVID-19: a Google Trends analysis
Miguel Trigueiro Rocha Barbosa (Viana do Castelo, Portugal), Cláudia Sabina, Rita Aguier, Mário Morais-Almeida

PA533 Is workplace-based assessment (WBA) worthwhile?
Robert Primhak (Sheffield (South Yorkshire), United Kingdom)

PA534 Comparison of physicians’ and medical students’ knowledge in the etiology, diagnosis and pathogenesis of COPD according to the final results of the ASCO-II project
Roman Bontsevich (Belgorod, Russian Federation), Ann Adonina, Anastasiya Shershnieva, Galina Prozorova, Olga Cherenkova, Elizaveta Ebzeeva, Valeriya Barysheva, Olga Kompaniets, Olena Myronenko, Irina Martynenko, Tatiana Shagieva

PA535 Assessment of medical undergraduates’ relation to pneumococcal conjugate vaccine use
Roman Bontsevich (Belgorod, Russian Federation), Kristina Shchurovskaya, Galina Batisheva, Natalya Goncharova, Ann Adonina, Anna Gavrilova, Tatiana Pokrovskaya

PA536 Comparison of physicians’ and medical students’ knowledge in the treatment and prevention of COPD according to the final results of the ASCO-II study
Roman Bontsevich (Belgorod, Russian Federation, Anna Adonina, Anastasiya Shershnieva, Yana Vovk, Galina Prozorova, Galina Batisheva, Andrey Kirichenko, Galina Ketova, Olga Kompaniets, Elena Luchimina, Vera Nevzorova

PA537 Training in Paediatric Respiratory Medicine in Europe: the applicability and acceptability of Paediatric HERMES project
Maria Tsouprou (Athens, Greece), Kostas Douros, Kostas N. Priftis

PA538 Does simulation based on-call training improve self-evaluated confidence for physiotherapy staff undertaking on-call duties.
Bettina Lotay (Reading, United Kingdom), Bettina Lotay, Louise Koslicki, Alex Hodson, Vaughan Root

PA539 Video consultation evaluation during COVID-19 pandemic in Juárez, México
Ruben Efrain Garrido Cardona (Ciudad Juarez (Chihuahua), Mexico), Elisa Barrera Ramirez

PA540 Knowledge, attitudes, and practices towards coronavirus disease (COVID-19) among internal medicine residents in Southern Luzon, Philippines
Danica Ann Leycano (Lipa City, Philippines), Justine Vera Dennys Caringal, Rachel Ann Napa, Cristito Alea, Dioscoro Bayani, Cristina Comia
Improving the educational value of the multi-disciplinary team (MDT) meeting
Nicola Smallcombe (London, United Kingdom), Elizabeth Nally, Myria Galazi, Helen Mills, William Ricketts, Elizabeth Nally

Planning and adherence of SUS Brazil booklet as a telerehabilitation instrument after discharge in patients with COVID-19 pneumonia.
Ligia Roceto Ratti (Valinhos, Brazil), Ana Lúcia Cavallaro B. Lima, Lais Bacchin De Oliveira, Bruna Scharlack Vian, Evelyn Regina Couto, Luciana Castilho De Figueirêdo, Aline Maria Heidemann, Mônica Corso Pereira

Impact of COVID-19 on Tunisian pulmonology trainees
Nozha Ben Salah (Tunis, Tunisia), Hana Blibeche, Donia Belkhir, Houda Snene, Aymen Jebali, Mariem Maalej, Nadia Mehiri, Bechir Louzir

Changing motivations for conference attendance across professional careers: a case study
Sai Ram (Bern, Switzerland), Carine Pannetier, Nathalie Tabin, Richard Costello, Daiana Stolz, Kevin Eva, Sören Huwendiek

Pre-congress content

Session 97 13:15 - 14:15
E-poster: Airway pharmacology: translational and basic science
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases
Method(s): Cell and molecular biology  Physiology  General respiratory patient care  Pulmonary function testing
Chairs: Simon Lea (Manchester (Greater Manchester), United Kingdom), Antonio Spanevello (Milan, Italy)

PA545 Bronchial thermoplasty upregulates the expression of the glucocorticoid receptor in tissue sections
Liang Zhou (Basel, Switzerland), Liang Zhou, Lei Fang, Eleni Papakonstantinou, Michael Tamm, Michael Roth, Daiana Stolz

PA546 Indacaterol acetate, glycopyrronium bromide, and mometasone furoate: effect on human airway inflammation
Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Francesco Facciolo, Ivan Nikolaev, Luigino Calzetta

PA547 Effect of cigarette smoke extract and Th17 cytokine on production of inflammatory cytokines and chemokines in human airway smooth muscle cells
Abdalrhman Alghamdi (Nottingham, United Kingdom), Abdullah Alqarni, Mushabbab Alahmari, Rochelle Edwards-Pritchard, Amanda Tatler, Linhua Pang

PA548 Calcaratarin D attenuates house dust mite-induced allergic asthma
Wupeng Liao (Singapore, Singapore), Yu Ci Hazel Foo, Wai Shiu Fred Wong

PA549 The pan janus kinase (JAK) inhibitor KN-002 suppresses inflammatory mediator release from severe asthma bronchial epithelial cells.
Ian M. Adcock (London, United Kingdom), Mark Main, Alan Rothaul, Coen Wiegman, Frazer Morgan

PA550 Indacaterol acetate, glycopyrronium bromide, and mometasone furoate: effect on neuronal inflammation and acetylcholine release
Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Francesco Facciolo, Maria Gabriella Matera, Ivan Nikolaev, Luigino Calzetta

PA551 Corticosteroid effects on airway neuroplasticity in experimental models of asthma
Siti Farah Rahmawati (Groningen, Netherlands), Pien Goldsteine, Sophie Bos, Huib Kerstjens, Amalia Dolga, Loes Kistemaker, Reinoud Gosens

PA553 Crucial role of fatty acid oxidation in asthmatic bronchial smooth muscle remodeling
Pauline Esteves (PESSAC, France), Landry Blanc, Alexis Celle, Isabelle Dupin, Elise Mairaut, Nivea Amoedo, Guillaume Cardouat, Olga Ousova, Lara Gales, Florian Bellvert, Hugues Begueret, Matthieu Thumerel, Pierre-Olivier Girodet, Rodrigue Rossignol, Patrick Berger, Thomas Trian

PA554 Effect of intravenous alpha-1-antitrypsin augmentation therapy on proteinase-3-generated AaVal541 in deficient patients
Iris G. M. Schouten (Leiden (ZH), Netherlands), Abraham C. Van Der Linden, Pieter S. Hiemstra, Richard A. Mumford, Jan Stolk
Adding glycopyrronium to beclomethasone/formoterol combination: synergistic effect on human small airways of COPD donors
Luigino Calzetta (Roma (RM), Italy), Josuel Ora, Andrea Girolami, Immacolata Rossi, Ilaria De Guido, Francesco Faccioli, Mario Cazzola, Paola Rogliani

C-reactive protein and the type IV collagen measurement in severe COPD: Value of roflumilast
Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovskya, Oleksandr Varunkiv, Galyna Korzh, Mariana Kulynych-Miskiv, Kostiantyn Shvets, Nadiia Korzh

Acupuncture regulates macrophage polarization in COPD mice model by activating dopamine D2 receptor.
Tao Fan (Chengdu (Sichuan), China), Xue-Mei Liu, Yu Zhang, Yan Lv, Bing Mao

Effect of roflumilast on cytokines levels in patients with Chronic Obstructive Pulmonary Disease
Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovskya, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Galyna Korzh, Kostiantyn Shvets, Nadiia Korzh

Late Breaking Abstract - Life cycle assessment (LCA) and cradle-to-grave carbon footprint of a multidose reservoir dry powder inhaler product family
Tari Haahatelaa (Espoo, Finland), Ville Vartiainen, Aino Takala, Aino Haikarainen, Grace Parker

Late Breaking Abstract - Pneumonia risk in COPD patients initiating extrafine Fixed Dose Combination (FDC) with beclometasone dipropionate (ef-FDC-BDP) versus long-acting bronchodilators (LABD)
David Price (Singapore, Singapore), William Henley, Victoria Carter, Derek Skinner, Rebecca Vella, Alberto Papi, Leonardo M Fabbri, Huib Am Kerstjens, Nicolas Roche, Dave Singh, Claus F Vogelmeier, Elif Şen, Jose Eduardo Delfini, Elena Nudo, Sara Barile, George Georges

Late Breaking Abstract - Real world patient-reported outcomes in asthma across six European countries: the NEWTON study
Fulvio Braido (Genova (GE), Italy), Kai-Michael Beeh, Sara Barile, Carolina Cisneros, Luca Cavaliere, Anh Tuan Dinh-Xuan, Elena Ornsa Inggriassia, Alessio Piraino, Lilla Tamasi, Yasmine Unal, Ruxandra Umeanu

Late Breaking Abstract - Efficacy and safety of eliapixant in refractory chronic cough: Results of the PAGANINI 12 -week, randomized, placebo-controlled Phase 2b study
Lorcan McGarvey (Belfast, United Kingdom), Alyn H Morice, Jaclyn Smith, Mandel Sher, Michael Vaezi, Laurent Guilleminault, Akio Niimi, Katrin Roth, Riitta Saarinen, Philippe Vieira Pires, Melanie Wosnitza, Peter Dicpinigaitis

Late Breaking Abstract - Second Souffle: preliminary results from a national survey on the care pathways and quality of life of patients with T2 severe asthma
Alain Didier (Toulouse, France), Chantal Raherison-Semjen, Edouard VERDIER, Claire Camus, Christophe Pison, Arnaud Bourdin, Philippe Bonnau, François-Xavier Blanc, Gilles Devouassoux, Stéphanie Fry, Cécilia Noént-Ejdani, Joëlle Courdeau-Labourie, Carmen Imanadat, Alain Proust, Jean-Marc Dot, Etienne Aubray, Fabien Rolland, Stéphanie Martinez, Florence Hennegrave, Laurent Portel, Pauline Roux, Jean Miltgen, Maud Rieusset, Laurent Guilleminault, Camille Taillé

Late Breaking Abstract - Real-World Characteristics of Patients Receiving Dupilumab in Routine Clinical Practice in a Multinational, Non-Interventional Study (ProVENT)
Marek Lommatzsch (Rostock, Germany), Stephanie Korn, Olaf Schmidt, Hartmut Timmermann, Henrik Watz, Amr Radwan, Lucia De Prado-Gomez, Anne Atenhan, Sebastian Barbus, Mayank Thakur

Pre-congress content
Session 98 13:15 - 14:15

E-poster: Posters in paediatric bronchology
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care Airway diseases Interstitial lung diseases
Method(s): Respiratory intensive care Endoscopy and interventional pulmonology Imaging General respiratory patient care Pulmonary function testing Public health

Chairs: Nadine Freitag (Duesseldorf, Germany), Dirk Schramm (Duesseldorf, Germany)

Clinical spectrum of children with interstitial pneumonia with autoimmune features: a new definition in childhood interstitial lung diseases
Anna Wiemers (Düsseldorf, Germany), Anna Hoffmann

Clinical spectrum of children with interstitial pneumonia with autoimmune features: a new definition in childhood interstitial lung diseases
Anna Wiemers (Düsseldorf, Germany), Anna Hoffmann
Diagnostic significance of TGF-ß1 levels in children with recurrent and chronic bronchitis
Svetlana Ilchenko (Dnepr, Ukraine), Anastasiia Fialkovska

Sedation for bronchoscopy in children: a prospective randomized double-blinded trial
Florian Stehling (Essen, Germany), Eva Tschiedel, Maximilian Eckerland, Ursula Felderhoff-Mueser, Christian Dohna-Schwake

Creation and validation of a questionnaire assessing quality of life of parents of children with interstitial lung disease (chiLD)
Nadia Nathan (Paris, France), Alexia Challan-Belval, Dorian Bannier, Harriet Corvol, Annick Clement, Ingrid Banovic

Causes of delayed diagnosis of foreign body aspiration in children
Diana Rotaru-Cojocari (Chișinău, Republic of Moldova), Victor Rascov, Svetlana Sciucu, Rodica Selevestru

Lower airway malacia in children: retrospective study in a tertiary paediatric hospital
Fazilean Zirek (Ankara, Turkey), Gizem Özcen, Merve Nur Teker, Özlem Selvi Can, Nazan Çobanoğlu

Endoscopic ultrasound using EUS-b approach in children with suspected mediastinal TB: tertiary care center experience
Ilya Sivokozov (Moscow, Russian Federation), Irina Petrakova, Svetlana Sterlikova, Firaya Poluektova, Elena Larionova, Svetlana Shishova

Does the type of bacterial colonization in lower airways affect the lung function in patients with Primary Ciliary Dyskinesia (PCD)?
Vanessa Fein (Bochum, Germany), Anne Schlegtendal, Christoph Maier, Cordula Koerner-Rettberg, Folke Brinkmann

Factors affecting recovery time of children with thoracic air leak syndromes
Ayse Tana Aslan (Istanbul, Turkey), Eyuhl Pinar Cakir, Pelin Asfuroglo, Tugba Ramasli Gursoy, Tugba Sismanlar Eyuboglu, Merve Yazol, Oznur Boyunaga

Children with congenital lung malformation in terms of age of diagnosis
Tugba Ramasli Gursoy (ANKARA, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Ramazan Karabulut, Ifran Tastpe

Anxiety of children with primary ciliary dyskinesia and their mothers during COVID-19 pandemic
Pelin Asfuroglu (Ankara, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Tugba Ramasli Gursoy, Azime Sebnem Soysal Acar, Dilek Yapar, Mustafa Necmi Ilhan

Respiratory system involvement and follow-up of children with inherited metabolic diseases
Tugba Sismanlar Eyuboglu (Ankara, Turkey), Zeynep Ilksen Hocoglu, Tugba Ramasli Gursoy, Ayse Tana Aslan, Leyla Tuner

Pulmonary nodules in children
Pelin Asfuroglu (Ankara, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Tugba Ramasli Gursoy, Merve Yazol, Oznur Boyunaga

Non-cystic fibrosis bronchiectasis in children
Tugba Ramasli Gursoy (ANKARA, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan

Long-term follow-up of children diagnosed with pulmonary hypoplasia
Tugba Ramasli Gursoy (ANKARA, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Ramazan Karabulut, Ifran Tastpe

Genotype-phenotype correlation in a group of patients with primary ciliary dyskinesia in Italy.
Laura Petrarca (Roma (RM), Italy), Giuseppe Cimino, Valentina Guida, Alessandro De Luca, Raffaella Nenna, Ambra Nicolai, Antonella Frassanito, Carlo Cappelli, Patrizia Troiani, Fabio Midulla

The value of chest radiograph in the first episode of acute bronchiolitis
Nadia MEBROUK (Rabat, Morocco), Naima El Hafidi, Soukaina Batali, Ghizlane Jaabouti, Fadoua Benbrahim, Soumia Benchekroun, Chafiq Mahraoui

The short term influence of chest physiotherapy on lung function parameters in pediatric bronchiectasis
Mieke Boon (Wilsele, Belgium), Django De Beuckeleer, Bjarnie Vandervoort, Elke Huenaerts, Marianne Schulte, Francois Vermeulen, Marijke Proesmans, Myriam Vreys

Pre-congress content  Session 99  13:15 - 14:15
E-poster: Pathogenesis and pathophysiology of pulmonary hypertension
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Pulmonary vascular diseases, Airway diseases

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

Chairs: Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom), Laurence Dewachter (Bruxelles, Belgium)

Role of Connexin 43 increased expression in pulmonary arterial hyperreactivity induced by the nerve growth factor NGF
Guillaume Cardouat (Talence, France), Matthieu Douard, Lukas Roubenme, Clement Bouchet, Zuzana Kmecová, Paul Robillard, Christophe Guignabert, Ly Tu, Frederic Delcambre, Roger Marthan, Bernard Muller, Christelle Guibert, Veronique Freund-Michel

Short-term mechanisms activated by NGF to induce pulmonary arterial hyperreactivity
Clement BOUCHET (Pessac, France), Guillaume Cardouat, Matthieu Douart, Paul Robillard, Roger Marthan, Bernard Muller, Christelle Guibert, Veronique Freund-Michel

BMPR2 mutations and iron metabolism in pulmonary arterial hypertension patients
Vivienne Theobald (Heidelberg, Germany), Ekkehard Grünig, Nicola Benjamin, Benjamin Eigenlauf, Henning Gall, Ardeschir Ghofrani, Michael Halánk, Satenik Harutyunova, Marius Hoeper, Danny Jonigk, Marc Schneider, Hans-Jürgen Seyfarth, Sarah Richmann, Panagiota Xanthouli, Martina Muckenthaler, Christina Eichstaedt

18-FDG uptake on PET-CT and metabolism in pulmonary arterial hypertension.
Jeisson Osorio Trujillo (Barcelona, Spain), Olga Tura-Ceide, Javier Pavia, Ivan Vollmer, Isabel Blanco, Valerie Smolders, Aida Ninerola, Pilar Paredes, Jesús Ruiz-Cabello, Manuel Castellá, Yolanda Torralba, Laura Sebastián, Lucilla Piccari, Victor Peinado, Daniel Aguilar, Joan Albert Barberà

LSC - 2021 - Direct effects of cigarette smoke in pulmonary arterial cells: Implications in arterial remodeling and vascular tone maintenance
Sevilla-Montero Javier, Jesús Pino (francisco.pino@estudiante.uam.es / Universidad Autonoma of Madrid, Madrid), David Labrousse-Arias (davidlabroussearias@gmail.com / Universidad Autonoma de Madrid, Madrid), Cintia Fernández-Pérez (Cintia.fernandez@uam.es / Universidad Autonoma de Madrid, Madrid), Laura, Fernández-Blanco (Laura.fernandezblanco@estudiante.uam.es / Universidad Autonoma de Madrid, Madrid), Bianca Barreira (bancabarreira@med.ucm.es / Universidad Complutense of Madrid, Madrid), Gema Mondejar-Parreño (gemondej@ucm.es / Universidad Complutense of Madrid, Madrid), Elvira Alfaro-Arnedo (calfaro@riojasalud.es / Centro de Investigación Biomédica de La Rioja, Logroño), Iciar P. López (iplgarcia@riojasalud.es / Centro de Investigación Biomédica de La Rioja, Logroño), Sandra Pérez-Rial (SPerezR@fjd.es / Biomedical Research Unit IIS-FJD, Madrid), Germán Peces-Barba (GPecces@fjd.es / Biomedical Research Unit IIS-FJD, Madrid), José G. Pichel (jgpichel@riojasalud.es / Centro de Investigación Biomédica de La Rioja, Logroño), Victor Ivo Peinado (vpeinado@clinic.cat / Hospital Clinic-Institut d'Investigacions Biomèdiques August Pi i Sunyer, Barcelona), Ángel Cogolludo (acogolludo@med.ucm.es / Universidad Complutense of Madrid, Madrid), Maria Jose Calzada Garcia (calzadamj@yahoo.com / Universidad Autonoma of Madrid, Madrid)

Soluble guanylate cyclase stimulators revert in vitro cigarette smoke effects through JNK pathway normalization
Adelaida Bosácoma (Barcelona, Spain), Daniel Aguilar, Tania Paul, Isabel Blanco, Olga Tura-Ceide, Joan Albert Barberà, Victor Ivo Peinado

Altered gut microbiota in chronic thromboembolic pulmonary hypertension
Takayuki Jujo (Chiba, Japan), Yumiko Ikubo, Koji Hosomi, Akira Naito, Jonguk Park, Hiroki Shoji, Rika Suda, Ayumi Sekine, Ayako Shigeta, Seichiro Sakao, Nobuhiro Tanabe, Kenji Mizuguchi, Jun Kunisawa, Koichiro Tatsumi

Novel hypoxia system to assess endothelial dysfunction in chronic thromboembolic pulmonary hypertension (CTEPH)
Ylenia Roger (Barcelona, Spain), Isaac Almendros, Esther Marhuenda, Ana Ramirez, Victor Ivo Peinado, Isabel Blanco, Manuel Castellá, Joan Albert Barberà, Olga Tura-Ceide

Differential expression of plasma microRNAs in chronic thromboembolic pulmonary hypertension and pulmonary embolism related to occult cancer
Julià Oto (Valencia, Spain), Olga Tura-Ceide, Verónica Sánchez-López, Carme Font, Jeisson Osorio, Cristina Bonjoch, David Hervás, Elena Arellano, Pilar Medina, Isabel Blanco, Victor Peinado, Joan Albert Barberà, Remedios Otero

Pentastatin, matriline of the type IV collagen a5 drives pulmonary hypertension via endothelial dysfunction
Ayse Ceren Mutgan (Graz, Austria), Katharina Jandl, Leigh Marsh, Julia Hoffmann, Elisabeth Gschwandtner, Walter Klepetko, Akos Heinemann, Horst Olschewski, Andrea Olschewski, Margorzata Wygrecka, Grazyna Kwapiszska
**PA595**

**Estrogen and progestin induce the migration of pulmonary artery smooth muscle cells with the contractile phenotype via different mechanisms**

Wei-ping Hu (Shanghai, China), Shan-Qun Li, Dong Liu

---

**PA596**

**Genetic findings in a family with hereditary spherocytosis, haemolytic anaemia and pulmonary hypertension**

Memoona Shaukat (Heidelberg, Germany), Mareike Lankeit, Ding Cao, Nicola Benjamin, Ekkehard Grünig, Christina Eichstaedt

---

**PA597**

**Pulmonary vein banding-induced pulmonary venous congestion causes pulmonary hypertension in rats.**

Jonas Muenks (Gießen, Germany), Baktybek Kojonazarov, Akylbek Sydykov, Norbert Weissmann, Ralph T Schermuly, Mario Boehm

---

**PA598**

**Right ventricular function and lung perfusion in adaptive versus maladaptive experimental pulmonary hypertension**

Baktybek Kojonazarov (Gießen, Germany), Werner Seeger, Ralph Schermuly

---

**PA599**

**Late Breaking Abstract - Involvement of Orai1 Ca2+ channel in the pathogenesis of pulmonary arterial hypertension. Orai1 as a new potential therapeutic target?**

Bastien Masson (Le Plessis-Robinson, France), Hélène Le Ribeuz, Jessica Sabourin, Emily Woodhouse, Richard Foster, Yann Ruchon, Mary Dutheil, Angèle Boët, Maria-Rosa Ghigna, Olaf Mercier, David Beech, Jean-Pierre Benitah, Marc Bailey, Marc Humbert, David Montani, Véronique Capuano, Fabrice Antigny

---

**PA600**

**Late Breaking Abstract - Implication of the KATP Sur2b/Kir6.1 in the physiopathology of pulmonary arterial hypertension**

Hélène Le Ribeuz (Paris, France), Mary Dutheil, Veronique Capuano, Olaf Mercier, Marc Humbert, David Montani, Fabrice Antigny

---

**PA601**

**Late Breaking Abstract - Evidence of target engagement and pathway modulation: biomarker analysis of the phase Ib inhaled seralutinib study**

Robin Osterhout (San Diego, United States of America), Kristin B. Highland, Robert P. Frantz, David Nickle, John Mcconnell, Charles D. Burger, Robert F. Roscigno, Matt Cravets, Ramona Mccaiffrey, Lawrence S. Zisman, Jean-Marie Bruy, Luke S. Howard

---

**Pre-congress content**

**Session 100 13:15 - 14:15**

**E-poster: Pulmonary rehabilitation in the COVID-19 era**

**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e- posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s)**: [Respiratory critical care](#), [Sleep and breathing disorders](#), [Airway diseases](#), [Interstitial lung diseases](#)

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

**Tag(s)**: COVID, Digital health

**Chairs**: Rachael A. Evans (Leicester (Leicestershire), United Kingdom), Mara Paneroni (Mazzano (BS), Italy)

---

**PA602**

**Recovery from COVID-19: a sprint or marathon? 24-week follow-up data of online long COVID-19 peer support groups**


---

**PA603**

**The assessment of the metabolic dysfunction in patients (pts) after COVID-19 pneumonia**

Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Larisa Botvinikova, Olha Shchudro, Olena Myronenko, Oksana Plekhanova

---

**PA604**

**Pulmonary function and psychological burden 3 months after COVID-19**

Guido Vagheggini (Volterra (PI), Italy), Francesca Marzetti, Lorenzo Bernardeschi, Mario Miniati, Giulia Boni Brivio, Eugenia Fanait, Simone Meini, Elena Cini, Angelo Gemignani

---

**PA605**

**Lung function indices in patients undergoing post-COVID assessment- An observational study**

Pranav Modi (Mumbai, India), Sandhya Kulkarni, Girija Nair, Rhea Kapur, Soham Chaudhary, Deepak Langade, Abhay Uppe
Clinical outcomes and quality of life of COVID-19 survivors: a follow-up of 3 months post hospital discharge
Luiza Helena Degani-Costa (São Paulo (SP), Brazil), Beatriz C Todt, Claudia Szlejfi, Etienne Duim, Alana O M Linhares, Diogo Kogiso, Gabriela Varela, Bruna A Campos, Cristina M B Fonseca, Leonardo E Polesso, Ingra N S Bordon, Bruno T Cabral, Victor L P Amorim, Felipe M T Piza

Evaluation of the effectiveness of an outpatient rehabilitation course for patients previously hospitalised with COVID-19
Lisa Pritchard (London, United Kingdom), Laura Moth, Hannah Cumming, Lynn Mcdonnell, Amy Dewar, Lauren Hogg

Post-COVID and the BHRUT one-stop shop MDT approach to managing the longterm sequelae of a novel disease process.
Adam Ainley (London, United Kingdom), Pavan Kumar, Sofia Nyberg, Riyah Jiwan

Hyperbaric oxygenation (HBO) in the rehabilitation of patients undergoing COVID-19
Ganna Mamenko (Sant-Petersburg, Russian Federation), Evgeniy Popov, Evgeniy Kononov, Alexander Sidorenko, Tamara Rubanik

The role of spirometry and carbon monoxide diffusing capacity (DLCO) in the diagnosis of pulmonary function in patients after COVID-19 pneumonia
Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Olha Shchudro, Ksenia Bielosludtseva, Tetyana Pertseva, Mariia Krykhchina

Risk factors associated with dinapenia in subjects recovered from COVID-19
Andrea Samantha Hernández López (ciudad de Mexico, Mexico), Arturo Orea Tejeda , Dulce González Islas , Susana Galicia Amor, Esperanza Trojo Mellado, Juan Carlos García Hernández, Maria Fernanda Salgado Fernández, Carlos Miguel Sánchez Moreno

Effects of a home-based pulmonary rehabilitation program in patients with chronic obstructive pulmonary disease of GOLD D group.
Rui Vilarinho (Maia, Portugal), Rui Vilarinho, Cátia Esteves, Cátia Caneiras

Narratives in the time of Covid-19: short diaries of patients with Chronic Obstructive Pulmonary Disease, their caregivers and professionals
Alessio Piraino (Roma (RM), Italy), Maria Giulia Marini, Eleonora Volpato, Stefano Centanni, Paolo Banfi, Salvatore D'Antonio, Enrico Peterle, Filomena Bugliaro, Ignazio Grattagliao, Luca Cavalieri, Alfio Pennisi, Gianluca Dainesi, Luigi Santoemma

Personalized rehabilitation of COVID-19 patients in Russia: initial experience
Ekaterina Soboleva (Yoshkar-Ola, Russian Federation), Rustem Khamitov

A digitally enhanced pulmonary rehabilitation approach for COPD during COVID-19 using myCOPD
Kate Savage (Kent, United Kingdom), jane stokes

Late Breaking Abstract - Neuromuscular electrical stimulation of the respiratory muscles based on breathing modeling in a mouse model of cervical spinal cord injury
Thibaut Coustillet (Paris, France), Florence Cayetanot, Laurence Bodineau, Isabelle Vivodtzev

A survey to Understand The Need for Rehabilitation Programme After an Episode of COVID-19.
Manjula Alhotye (Leicester, United Kingdom), Enya Daynes, Charlotte Gerlis, Sally J Singh

Utilisation of patient participation and involvement to develop a meaningful educational programme for post COVID-19 rehabilitation.
Lisa Pritchard (London, United Kingdom), Laura Moth, Hannah Cumming, Lynn Mcdonnell, Lauren Hogg

A review of outcomes from a novel long-COVID clinic.
Arun Prasad (Gateshead, United Kingdom), Hayley Elder, Katie Burke, Nicholas Lane, Megan Ball, Victoria Miller, Michael Scott, Sophie West, Carlos Échevarria, Graham Burns

Pre-congress content Session 101  13:15 - 14:15
E-poster: Asthma burden and management I
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion. This session includes the Best Abstract for Assembly 6 - Epidemiology and Environment, entitled "Protection from childhood hay fever in farm environment"
Disease(s) : Airway diseases, Sleep and breathing disorders, Respiratory critical care

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

Chairs : Núria Toledo Pons (Palma De Mallorca, Spain), Job F.M. van Boven (Groningen, Netherlands)

PA621

Recurrent pregnancy loss and asthma: A nationwide study
Casper Tidemandsen (Hvidovre, Denmark), Pia Egerup, Charlotte Suppli Ulrik, Vibeke Backer, David Westergaard, Anders Mikkelsen, Øjvind Lidégaard, Henriette Svarre Nielsen

PA622

Late Breaking Abstract - Cardiovascular risk and COPD in a population-based study
Suurya Krishnan (Montreal, Canada), Suurya Krishnan, Wan Tan, Raquel Farias, Shawn Aaron, Andrea Benedetti, Kenneth Chapman, Paul Hernandez, Francois Maltais, Darcy Marciniuk, Denis O'Donnell, Don Sin, Brandie Walker, Jean Bourbeau

PA623

Late Breaking Abstract - Low lung function, sudden cardiac death and non-fatal coronary events in the general population
Suneela Zaigham (Malmö, Sweden), Karl-Fredrik Eriksson, Per Wollmer, Gunnar Engström

PA624

Among respiratory symptoms, wheeze associates most strongly with impaired lung function in adults with asthma - A long-term prospective cohort study
Nicolas Bermúdez Barón (Luleå, Sweden), Anne Lindberg, Caroline Stridsman, Martin Andersson, Linnea Hedman, Sigrid Anna, Hannu Kankaanranta, Bo Lundbäck, Eva Rönmark, Helena Backman

PA625

Whispers of change in childhood asthma: findings in the French ELFE cohort
Sadia Khan (BORDEAUX Cedex, France), El Hassane Ouallalay, Bénédicte Leynaert, Jacques De Blic, Christophe Marguet, Antoine Deschêlrière, Marie-Noëlle Dufour, Corinne Bois, Marie-Aline Charles, Marie Christine Delmas, Amandine Divaret Chauveau, Emeline Scherer, Steffi Rocchi, Gabriel Reboux, Laurence Million, Chantal Raherison Semjen

PA626

Influence of farm environment on asthma during the life-course: a population-based birth cohort study in Northern Finland
Marko Kantomaa (Oulu, Finland), Mimmi Tolvanen, Miia Halonen, Marjo-Riitta Järvelin, Sylvain Sebert

PA627

Is breathlessness hereditary? Analysis of the RHINESSA generation study
Magnus Ekström (Lyckeby, Sweden), Ane Johannessen, Michael Abramson, Bryndís Benediktsdottir, Karl Franklin, Thorarinn Gisalson, Francisco Gómez Real, Mathias Holm, Christer Janson, Ragni Jögi, Andrián Lowe, Andreí Malinovschi, Jesús Moratalla, Anna Oudin, José Luis Sánchez Ramos, Vivi Schlünsen, Cecilei Svanés

PA628

Association of asthma diagnosis with chronic airflow obstruction: a multi-site cross-sectional study
Octavia Mulhern (London, United Kingdom), Fahad Algharbi, Andre F.S. Amaral, Peter Burney

PA629

Marta Maskey-Warzęchowska (Warsaw, Poland), Katarzyna Bialek-Gosk, Jakub Strzelczyk, Slawomir Bialek

PA630

Risk factors and biomarkers of low lung function in early adulthood in the Lifelines study
Núria Olvera Ocaña (Barcelona, Spain), Alvar Agusti, Sandra Casas, Judith M. Vonk, Tamara Garcia, H. Marike Boezen, Maarten Van Den Berge, Rosa Faner

PA631

Protection from childhood hay fever in farm environment
Sonali Pechlivanis (Munich, Germany), Martin Depner, Juha Peckanan, Caroline Roduit, Josef Riedler, Amandine Divaret-Chauveau, Roger Lauener, Anne M. Karvonen, Marjut Roponen, Bianca Schaub, Elisabeth Schmauss-Hechfellner, George Loss, Pirikka V. Kirjavainen, David Mills, Harald Renz, Petra I. Pfefferle, Sabina Illi, Erika Von Mutius

PA632

Associations between TARC/TSLP with asthma characteristics in adults: the EGEA study
Bakari IBRAHIM (PARIS, France), Djamil Achour, Farid Zerimech, Patricia De Nadat, Valérie Siroux, Anne Tsicopoulos, Regis Matran, Vanessa Granger, Rachel Nadif

PA633

Preventing future asthma deaths
Carl Reynolds (London, United Kingdom), Iris Vilachantoni, Jess Potter, Ian Moonsie, Chris Valerio, Zaheer Mangera

PA634

Income inequalities in asthma and bronchitis in northern Sweden: changes over a 20-year period
Helena Backman (Lulea, Sweden), Christian Schyllert, Anne Lindberg, Linnea Hedman, Caroline Stridsman, Martin Andersson, Eva Rönmark

PA635

Asthma onset and persistence associate differently to adult lung function depending on sex
Ida Mogensen (Skarpnäck, Sweden), Jenny Hallberg, Anna Bergström, Erik Melén, Inger Kull

PA636

Socioeconomic status, lifestyle factors and asthma prevalence. Results from a population-based study in Sweden.
Anu Molarus (Karlstad, Sweden), Mikael Hasselgren
**Pre-congress content**

**Session 102**  
**13:15 - 14:15**

**E-poster: COVID - 19 biomarkers**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s):** COVID

**Chairs:** Kseniia Bieloslutseva (Dniepropetrovsk, Ukraine), Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)

**PA640**  
**Hematological parameters- as mortality predictors in COVID-19 patients**  
Cristian Cojocaru (Iasi (Iasi), Romania), Elena Cojocaru

**PA641**  
**Ferritin versus D-dimer:comparison of prognostic roles in COVID-19 pneumonia**  
Ksenia Bieloslutseva (Dniepropetrovsk, Ukraine), Olena Myronenko, Tetyana Pertseva, Lyudmila Konopkina, Oksana Plekhanova, Mariia Krykhtina

**PA642**  
**Blood fibrocytes are associated with severity and progression in COVID-19 pneumonia**  
Mada Ghanem (Paris, France), Meline Homps-Legrand, Lise Morer, Tiphaine Goletto, Justine Frija, Catherine Bancal, Margarita Hurtado-Nedelec, Madeleine Jailllet, Arnaud Mailleux, Catherine Neukirch, Raphael Borie, Camille Taille, Bruno Crestani

**PA643**  
**Pathophysiological parameters of microcirculation as determinants of mortality in SARS-CoV-2 pneumonia**  
Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Francesc Puchades Gimeno, Esther Verdejo Mengual, Vicente Abril López De Medrano, Sara Carrascosa Garcia, José Ignacio Mateo González, Amparo Lluch Bisbal, Noelia Carrion Collado, Alfonso González Cruz, Miguel García Deltoro, Estrella Fernández Fabrellas

**PA644**  
**Indicators of systemic inflammation in critically ill patients with COVID-19.**  
Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Yuriy Berezovskiy, Evgeniy Gretsov

**PA645**  
**Indicators of hemostasis and fibrinolysis systems in critically ill patients with COVID-19.**  
Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Yuriy Berezovskiy, Evgeniy Gretsov

**PA646**  
**Admission clinical parameters in predicting in-hospital mortality in COVID-19**  
Dalia Mudawi (Salford (Lancashire), United Kingdom), Ran Wang, Karl Heyes, Robert Niven, Nazia Chaudhuri

**PA647**  
**Correlation of renal impairment with biochemical and radiological findings, and clinical outcome in COVID-19 pneumonia patients**  
IOANNA PAPADAKI (Athens, Greece), Dimitrios Papadopoulos, Georgia-Emmanouela Dendrinou, Theofani Tambakis, Vasilios Gkogkos, Stefanos Kanellas, Sofia-Evelalia Myrotheou, Iadjet Dura, Maria Christodoulou, Thomas Triantafyllou, Kyriaki Zeibecoglou

**PA648**  
**The Value of C-Reactive Protein-to-Lymphocyte Ratio in Predicting the Severity of SARS-CoV-2 Pneumonia**  
Catia Cilloniz Campos (Barcelona, Spain), Hector Peroni, Carles Domingo, Rebeca Muñoz, Josep Lluis Bedini, Alex Soriano, Antoni Torres

**PA649**  
**The best coagulation marker for prediction of COVID-19 pneumonia progression.**  
Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bieloslutseva, Tetyana Pertseva, Lyudmila Konopkina
Association between creatine kinase level and mortality in high-risk patients with COVID-19
Michael Brovko (Moscow, Russian Federation), Aram Kitbalian, Larisa Akulkina, Pavel Potapov, Alexey Moiseev, Anastasia Schepalina, Alexandra Yakovleva, Viktoria Sholomova, Sergey Moiseev

Lymphocyte-to-monocyte ratio (LMR) as a predictor of Covid-19 pneumonia progression
Mariia Krykhtina (Dniepropetrovsk, Ukraine), Daria Koval, Tetiana Pertseva, Lyudmila Konopkina, Ksenia Bielosludtseva

What is the best biomarker of COVID-19 pneumonia progression?
Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Tetyana Pertseva, Tetiana Kirieieva, Bohdana Basina, Nataliia Krabchenko, Mariia Krykhtina

Platelet-to-lymphocyte ratio (PLR) as a predictor of Covid-19 pneumonia progression
Mariia Krykhtina (Dniepropetrovsk, Ukraine), Daria Koval, Lyudmila Konopkina, Ksenia Bielosludtseva

C-reactive protein (CRP) at admission: is it really useful in COVID-19 pneumonia?
Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Tetiana Kirieieva, Mariia Krykhtina, Natalia Kravchenko

Serum KL-6 as a biomarker to assess risk of worse outcome in patients with SARS-CoV2 infection
Sivagurunathan Sutharsan (Essen, Germany), Marc Berger, Jitka Andrä, Lutz-Bernhard Jehn, Christian Taube, Thorsten Brenner, Simone Kattner, Andreas Linner, Francesco Bonella

ISTH Criteria for Disseminated Intravascular Coagulation (DIC) scale, Padua scale, D-dimer or Fibrinogen: what is the best predictor of COVID-19 pneumonia progression?
Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Lyudmila Konopkina

Relation between inflammatory biomarkers and oxygen needs in severe COVID-19 patients
Samia Essebaa (Ariana, Tunisia), Selsabil Daboussi, Samira Mhamdi, Nouha Guediri, Islem Mejri, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui

The prognostic value of procalcitonin in patients with hypoxemic COVID 19 pneumonia.
Islam Mejri Ep Ajili (Hammanlif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Nouha Boubaker, Hager Kchouk, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui

ALEJANDRO REZOLA CARASUSAN (Donostia San Sebastian, Spain), Leyre Serrano Fernandez, Luis Alberto Ruiz Iturriaga, Edurne Eschevarria Guerrero, Beatriz Gonzalez Quero, Joseba Andia Iturrate, Elena Garay Llorente, Jone Solorzano Santobeña, Imanol Gonzalez Muñoz, Rafael Zalacain Jorge

Pre-congress content Session 103 13:15 - 14:15

E-poster: Novel insights into the pathogenesis of chronic lung diseases
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Thoracic oncology, Respiratory critical care, Interstitial lung diseases
Method(s): Physiology, Cell and molecular biology, Epidemiology, Pulmonary function testing
Tag(s): COVID

Chairs: Stefan Marciniak (Cambridge (Cambridgeshire), United Kingdom), Audrey Joannes (RENNES, France)

Mapping of Kras mutations during chemical carcinogenesis
Sabine J. Behrend (München, Germany), Magda Spella, Mario A. A. Pepe, Georgia A. Giotopoulou, Marina Lianou, Ioanna Giopanou, Anne-Sophie Lamort, Georgios T. Thastopoulos

Differential expression analysis of IncRNA in different types of lung cancer
Macarena Arroyo Varela (Malaga, Spain), Lorena Aguilera Cobos, Esperanza Salecedo Lobera, Rafael Larrosa Jiménez, M. Gonzalo Claros Díaz, Rocio Bautista Moreno

The analysis of CHEK2 gene mutation in small cell lung cancer
Aigool Nizamova (Ufa, Russian Federation), Galiya Gimalova, Zamir Abdullin, Elsa Khusnutdinova

Mutational RNA signatures in environmentally-induced lung adenocarcinoma
Georgia A. Giotopoulou (Munch, Germany), Sabine J. Behrend, Giannoula Ntialiarda, Anne-Sophie Lamort, Mario A.A. Pepe, Ioannis Lillis, Magda Spella, Georgios T. Thastopoulos
Altered expression of long non-coding RNA in sputum and blood during pulmonary exacerbation in cystic fibrosis
Zuzanna Stachowiak (Poznan, Poland), Beata Narożna, Wojciech Langwiński, Irena Wojsyk-Banaszak, Katarzyna Jończyk Potoczna, Anna Bręboringowiec, Aleksandra Szczepankiewicz

Airway remodelling augmented in patients with asthma COPD overlap (ACO) compared to asthma and COPD.
Suraijit Dey (Launceston, Australia), Wenyining Lu, James Markos, Josie Larby, Collin Chia, Greg Haug, Heinrich C. Weber, Samuel James Brake, Stephen Myers, Archana Vijay Gaikwad, Prem Bhattacharai, Peter A.B Wark, Mathew Suji Eapen, Sukhwinder Singh Sohal

Potential translation of plasma microRNA signatures in the risk stratification of COVID-19 patients admitted to the ICU
David de Gonzalo Calvo (Lleida / Lérida, Spain), Iván Benítez, Amara Carratalá, Anna Moncusí-Moix, Clara Gort-Paniello, Lucia Pinilla, Marta Molinero, Jessica González, Gerard Torres, Maria Bernal, Silvia Pico, Raquel Almansa, Noelia Jorge, Alicia Ortega, Elena Bustamante-Munguira, Jose Manuel Gómez, Milagros González-Rivera, Dariela Micheloud, Pablo Ryan, Amalia Martinez, Luis Tamayo, César Aldecoa, Ricard Ferrer, Adrián Ceccato, Laia Fernández, Ana Motos, Jordi Riera, Rosario Menéndez, Dario García-Gasulla, Óscar Peñuelas, Antoni Torres, Jesús F Bermejo-Martin, Ferran Barbé

Alterations of systemic hyaluronic acid in patients with COPD: a cross-sectional analysis
Kiki Waejen-Smit (Horn, Netherlands), Niki Reynaert, Rosanne Beijers, Sarah Houben-Wilke, Sami Simons, Martijn Spruit, Frits Franssen

Characterisation of alpha-1 antitrypsin protein expression and secretion in natural killer cells from healthy volunteers and alpha-1 antitrypsin deficiency patients
Lucia Bañuls (Valencia, Spain), Silvia Castiño, Maria Magallón, Daniel Pellicer, Sergi Bondia, Maria Mercedes Navarro-Garcia, Cruz González, Francisco Dasi

Transcriptome profiling reveals a potential role for antagonism of the calcium-sensing receptor in the prophylaxis of idiopathic pulmonary fibrosis
Kasope L. Wolffs (Cardiff, United Kingdom), Daniel A. Pass, Beth Mansfield, Richard T. Bruce, Petar A. Popov, Christopher J. Corrigan, Jeremy P.T. Ward, Paul J. Kemp, Benjamin Hope-Gill, Daniela Riccardi

Genetic risk for covid-19 outcomes in COPD
Rui Marçalo (Aveiro, Portugal), Sonya Neto, Miguel Pinheiro, Ana Rodrigues, Nuno Sousa, Manuel Santos, Paula Simão, Carla Valente, Lilia Andrade, Alda Marques, Gabriela Moura

Accelerated analysis of reactivation of the dormant Mycobacterium tuberculosis using mycobacteriophage D29.
Mikhail Vladimirsky (Moscow, Russian Federation), Marina Lapenkova, Greta Arustamova, Igor Granovsky, Anna Makarova, Rafail Kuznitsyn

Usefulness of GDF-15 as a biomarker of respiratory worsening in COVID-19 patients.
Rebecca Hull (Sheffield, United Kingdom), Simon Foster, Michael Brockhurst, Alison Condliffe

Evolution of tetracycline resistant S. aureus in hypoxia
Sofia Pavanello (Padova, Italy), Manuela Campisi, Filippo Liviero, Davide Biondini, Elisabetta Bulestro, Paolo Spagnolo

Comparison of transcriptional differences between IL-4Ra and IL-5 blockade in a mouse model of asthma
George Scott (Tarrytown, United States of America), Jeanne Allinne, Sebewarengel Asrat, Weikeat Lim, Kirsten Nagashima, Dylan Birech, Subhashini Srivatsan, Dharani Ajithdoss, Adelekan Oyejide, Li-Hong Ben, Johnathan Walls, Audrey Le Floch, George Yancopoulos, Andrew Murphy, Matthew Sleeman, Jamie Orengo

The worldwide covid-19 genetic risk scenario
Rui Marçalo (Aveiro, Portugal), Sonya Neto, Miguel Pinheiro, Ana Rodrigues, Nuno Sousa, Manuel Santos, Paula Simão, Carla Valente, Lilia Andrade, Alda Marques, Gabriela Moura

Saliva as a “patient-friendly” specimen for COPD assessment
Ana Sousa (Aveiro, Portugal), Ana Sousa, Sara Melo-Dias, Carla Valente, Lília Andrade, Alda Marques

Evolution of tetracycline resistant S. aureus in hypoxia
Rebecca Hull (Sheffield, United Kingdom), Simon Foster, Michael Brockhurst, Alison Condliffe
Disease(s): Airway diseases, Thoracic oncology, Interstitial lung diseases
Method(s): Cell and molecular biology, Pulmonary function testing, Imaging, Physiology, Transplantation, Endoscopy and interventional pulmonology

Chairs: Niki L. Reynaert (Maastricht, Netherlands), Kylie Belchamber (Birmingham, United Kingdom)

PA678
**IL-36β – a key mediator of neutrophilic inflammation in chronic obstructive pulmonary disease**
Jonathan R. Baker (London, United Kingdom), Peter S Fenwick, Harriet B Owles, Carolin Koss, Karim El-Kasmi, Peter J Barnes, Louise E Donnelly

PA679
**Effect of allergen-activated eosinophils on contractility and migration of ASMC and PF in asthma**
Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Egle Jurkeviucite, Jolita Palacionyte, Airidas Rimkunas, Beatrice Tamasauskaite, Kestutis Malakauskas

PA680
**Increased cough, mucus and wheeze characteristics in Australian Aboriginal adults**
Nick Young (Newcastle, Australia), Winnie Chen, Daniel Wong, Shimul Chatterjee, Aishath Lam'Aan Latheef, Jodie Simpson, Peter Wark, Alistair Cook

PA681
**T cell maturation profile in metastatic vs. non-metastatic lymph nodes in NSCLC patients**
Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Joanna Bednarek, Rafał Sokolowski, Karina Jahnz-Różyk, Joanna Domagała-Kulawik, Piotr Rrzepecki

PA682
**Destructive-cytolytic and peroxidase activity of bronchial granulocytes in asthma patients with different levels of disease control**
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B. Pirogov, Anna G. Prikhodko

PA683
**Profiling of COPD and IPF cytokine responses in human lung**
Dhruma Thakker (Nottingham, United Kingdom), Amanda Henry, Charlotte K. Billington, Binaya Kc, Tracy Rimington, Ian Sayers, Ian Hall

PA684
**Normal values for bronchoalveolar lavage (BAL) differential cell count and lymphocyte subpopulations**
Daniel Soriano (Freiburg, Germany), Sebastian Fähndrich, Thomas Köhler, Wolfram Meschede, Joachim Müller-Quernheim, Gernot Zissel, Björn Christian Frye

PA685
**The effectiveness of N-acetylcysteine in the suppression of pro-inflammatory cytokines in patients with COPD**
Aliaksei Kadushkin (Minsk, Belarus), Anatoli Tahanovich, Tatsiana Kolesnikova, Elena Hodosovskaya, Elina Talabayeva, Alena Plastinina

PA686
**Recruitment of Dendritic Cells by Factor XIII (FXIII) facilitates the immune response in COPD**
Alvise Casara (Padua, Italy), Erica Bazzan, Umberto Semenzato, Mariaenrica Tiné, Matteo Bonato, Elisabetta Cocconcelli, Graziella Turato, Simonetta Baraldo, Claudia Maria Radu, Paolo Simioni, Manuel G. Cosio, Marina Saetta

PA687
**Neutrophil to lymphocyte ratio and severity of COPD: prospective study**
HASSENE BAILI (sousse, Tunisia), Imène Touil, Yosra Brahem, Soumaya Bouchareb, Nadia Keskes Boudawra, Souhir Kessisa, Jihène Ayeb, Jalel Knani, Leila Boussofara

PA688
**Analysis of DNA repair synthesis in peripheral blood lymphocytes from patients with well-controlled and uncontrolled asthma**
Andrey Evgenievich Lintsov (Saint-Peterburg, Russian Federation), Alisher Soliev, Pavel Slizhov, Nadezhda Pleskach, Viktor Mikhailov

PA689
**Transcriptome profiling of platelets from patients with severe asthma.**
Mohamad Chebbo (Marseille, France), Said Assou, Véronique Pantesco, Catherine Duez, Arnaud Bourdin, Pascal Chanez, Delphine Gras

PA690
**Cytokine production of alveolar macrophages is decreased by OR2AT4**
Daniel Weidinger (Bochum, Germany), Kaschin Jamal Jameel, Desiree Alisch, Matthias Ruhe, Paul Bürger, Simon Rohde, Faisal Yusuf, Peter Kaufmann, Julianne Kronsbein, Marcus Peters, Nikolaos Giannakis, Hanns Hatt, Jürgen Knobloch

PA691
**Deconvolution of the sputum transcriptome and methylome by quadratic programming in asthma and COPD**
Espen Elias Groth (Hamburg, Germany), Melanie Weber, Thomas Bahmer, Frauke Pedersen, Anne Kirsten, Daniela Börnigen, Klaus F. Rabe, Henrik Watz, Ole Ammerpohl, Torsten Goldmann
E-poster: Moving forward in various aspects of sarcoidosis

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Intestinal lung diseases, Airway diseases

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

**Chairs:** Natalia V. Rivera (Stockholm, Sweden), Vasileios Kouranos (London, United Kingdom)

---

**Human dendritic cells with PD-1+ CD80+ expression from lymph nodes aspirates of sarcoidosis patients.**
Elżbieta Rutkowska (Warsaw, Poland), Iwona Kwiecień, Rafał Sokolowski, Joanna Bednarek, Agata Raniszewska, Karina Jahnz-Różyk, Piotr Rzepecki

**Is there a link between autophagy, sarcoidosis, and non granulomatous neurological disorders?**
Thomas El Jammal (Strasbourg, France), Alain Calender, Nathalie Freymond, Grégoire Prévot, Pascal Sève, Dominique Valeyre, Yves Pacheco

**Mitophagy, at the crossroads of genetic pathways involved in sarcoidosis and host-pathogen interactions with SARS-COV2 proteins**
Alain Calender (Lyon, France), Dominique Valeyre, Jérome Lamartine, Fabien Chevalier, Dominique Sigaudo Roussel, Yves Pacheco

**Cryptococcosis in a sarcoidosis patient with impaired response to IL-2**
Thomas El Jammal (Strasbourg, France), Alain Calender, Nathalie Freymond, Pascal Sève, Yves Pacheco

**The role of nonspecific inflammation factors – SA-A and pentraxin-3 in patients with respiratory sarcoidosis in different age groups**
Natayla Demyanenko (Moscow, Russian Federation), Averbakh Mihail, Natayla Makaryants, Elena Vladimirova, Anna Egorova, Aminat Akhmedova

**HLA Associations in Czech Patients with Sarcoidosis**
Martin Petřek (Olomouc, Czech Republic), Kateřina Sikorová, Veronika Žíková, Lenka Kocourková, Adam Strnad, Martina Doubková

**Influence of HLA class II DRB1*/DQB1* alleles in phenotypes of Indian patients of sarcoidosis.**
deepak rosha (Noida, India), Mohit Chowdhry, Ishan Gupta

**Comorbidity of sarcoidosis in mountainous regions of Western Ukraine: a based-cohort (n=592) patients analysis**
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovska, Ksenia Ostrovskaya, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Galyna Korzh, Iryna Savelikha, Nadiya Korzh

**Seasonality of hypercalcemia - A population-based study on patients with pulmonary sarcoidosis**
Julie Rodsgaard (Odense C, Denmark), Daniel Pilsgaard Henriksen, Christian B. Laursen, Jesper Romhild Davidsen

**The role of calcium metabolism assessment in the clinical setting of interstitial lung diseases**
Paolo Cameli (Siena (SI), Italy), Carla Caffarelli, Miriana D'Alessandro, Laura Bergantini, Martina Armati, Maria Dea Tomai Pitinca, Piersante Sestini, Stefano Gonnelli, Elena Bargagli

**The features of sarcoidosis in overweight patients.**
Evgeniy Shechipikhin (Moscow, Russia Federation), Evgeniy Shecepikhin, Evgeniy Shmelev, Anna Zaitseva, Natalia Makaryants
Cardio-pulmonary exercise test and 1-minute sit-to-stand test correlation in patients with sarcoidosis.
Ioannis Kokkonouzis (Peristeri - Athens, Greece), Ioanna Pantou, Dimitrios Papadopoulos, Nikolaos Tzogkas

Löfgren syndrome in patients with sarcoidosis: 25 years’ observational study in Kharkiv, Ukraine
Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko

Comparative review of older-onset and younger-onset sarcoidosis in endobronchial biopsy-confirmed cases
Michelle Brennan (Galway, Ireland), Sine Phelan, David Breen

An Audit on the Screening of Biopsy Confirmed Sarcoidosis in a University Hospital
Niamh Boyle (Celbridge, Ireland), Aoife Kirk, Conor Larney, Thomas Mcenerney

Prevalence of small fiber neuropathy in patients with sarcoidosis in an outpatient setting.
Nicol Bernardinello (Trecenta (RO), Italy), Elisabetta Cocconcelli, Elisabetta Balestros, Paolo Spagnolo

Quality of Life in Patients with Sarcoidosis Combined with Irritable Bowel Syndrome
Adila Zeimalo (Donetsk, Ukraine), Olena Semendyayeva, Liza Tsirkovskaya, Nadezhda Monogarova

Fatigue, coping, anxiety and depression in patients with sarcoidosis
Linda Charvoz (Lausanne, Switzerland), Aline Veyre, Sandra Châtelain, Nicolas Domon, Dorrit Irène Novel, Mary-Line Wiamsemsky, Selma Ahmetovic, Cécile Daccord, Adam Ogna, Laurent Nicod

Short term treatment response in pulmonary sarcoidosis – a prospective study
Ancy Thomas (Pathanamthitta, India), Barney Isaac, Devasahayam Christopher, Leena Vimala, Richa Gupta

The course of COVID-19 in pulmonary sarcoidosis patients, receiving methotrexate
Ievgeniia Merenkova (Kyiv, Ukraine), Volodymyr Gavrysvyuk, Yaroslav Dziublyk, Galyna Gumieniuk

Pre-congress content
Session 106
13:15 - 14:15

E-poster: Developments in biomarkers and treatment strategies for chronic lung diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Cell and molecular biology, Physiology, Pulmonary function testing, General respiratory patient care

Tag(s): COVID

Chairs: Manuela Platé (London, United Kingdom), Pauline BARDIN (Champs-sur-Marne, France)

FUNCTIONAL AND METABOLIC CHARACTERISTICS OF BRONCHOALVEOLAR LAVAGE FLUID CELLS IN PATIENTS WITH PROLONGED COMMUNITY ACQUIRED PNEUMONIA
Roman Razumnyi (Lugansk, Ukraine)

Community acquired pneumonia in COPD patients: Clinical features and peculiarities of nitric oxide metabolism
Usman Farkhutdinov (Ufa (Republic of Bashkortostan), Russian Federation), Elmira Amirova, Rafagat Farkhutdinov, Shamil Farkhutdinov

Active oxygen forms and antioxidant blood status in patients with community acquired pneumonia and its combination with COPD
Usman Farkhutdinov (Ufa (Republic of Bashkortostan), Russian Federation), Elmira Amirova, Rafagat Farkhutdinov, Shamil Farkhutdinov

Role of peroxidases in the formation of an osmo-dependent reaction of airways in patients with asthma
Juliya M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B. Pirogov, Anna G. Prikhodko, Victor P. Kolosov

The effect of antioxidants on oxidative metabolism in smokers
Svetlana K. Soodaeva (Moscow, Russian Federation), I Klimanov, E Zaprudnova, L Churkina, T Li, N Popova, N Kubyshcheva, V Novoselov, L Nikitina

The leucocyte telomere length, GSTM1 and GSTT1 null genotypes and the risk of COPD
Dimo Dimov (Stara Zagora, Bulgaria), Tanya Tacheva, Shanbeh Zienolldiny, Heidi Noto, Denitsa Vlaykova, Aage Haugen, Tatyana Vlaykova

The Involvement of NLRX1 in Pulmonary Hyperoxic Acute Injury.
Hye Rin Kim (Seoul, Republic of Korea), Mi Na Kim, Eun Gyu Kim, Jae Woo Lee, Kyung Won Kim, Myung Hyun Sohn
PA724 The proinflammatory role of SOCS3 in COPD is regulated by the expression of miRNAs in Bronchoalveolar Lavage (BAL) microvesicles (MV)
Mariaenrica Tine (Padova (PD), Italy), Erica Bazzan, Sara Carpi, Beatrice Polini, Tommaso Neri, Alvise Casara, Marco Cecchini, Paola Nieri, Alessandro Celi, Marina Saetta, Manuel G Cosio

PA725 Oxalate excretion in patients with allergic airway diseases
Svetlana K. Soodaeva (Moscow, Russian Federation), Igor A. Klimanov, Elena Tush, Anna Obykhov, Dmitry Ovsyannikov, Svetlana V. Vanyakina 4 Vanyakina, Olga Khaletska, M Glukhova, L Nikitina

PA726 Plasma-derived-exosome microRNAs in Idiopathic Pulmonary Fibrosis of Anti-synthetase syndrome Disease patients
Sara Bozzini (Pavia, Italy), Giovanni Zanfrumando, Veronica Codullo, Vanessa Frangipane, Laura Pandolfi, Sara Lettieri, Belén Atienza-Mateo, Sara Remuzgo Martinez, Carlomaurizio Montecucco, Miguel A. Gonzalez-Gay, Lorenzo Cavagna, Federica Meloni

PA727 D-dimer as a predictor of persistent pulmonary function impairment after COVID-19 pneumonia: a prospective observational study
Dejan Radovanovic (Milano (MI), Italy), Stefano Pini, Marina Saad, Elisa Franceschi, Luca Perotto, Giuseppe Croce, Fabio Giuliani, Andrea Airoldi, Maurizio Rizzi, Pierachille Santus

PA728 Predictive systemic biomarkers of pulmonary fibrosis after COVID-19 pneumonia
Carla Suarez Castillo (Palma de Mallorca, Spain), Jaume Sauleda Roig, Nesti Calvo Rado, Sara Hermoso De Mendoza Aristequi, Luisa Ramon Clar, Belen Nunez Sanchez, Amanda Iglesias Coro, Luminita Marinela Noje Noje, Alberto Alonso Fernandez, Daniel Morell Garcia, Maria Mercedes Rodriguez Romero, Nuria Toledo Pons, Jose Luis Valera Felices, Joaquin Martinez Menendez, Juan Antonio Palmer Sancho, Jaume Pons De Ves, Ernest Sala Llinas

PA729 Improved assay for the quantification of hydroxyproline (collagen) in animal models of Idiopathic Pulmonary Fibrosis.
Mary Mcelroy (Edinburgh, United Kingdom), Jem Davis, Angela Marsden, Pan Filis, Darren Spark, Iain Love

PA730 The effect of pulmonary macrophage transplantation in the pulmonary fibrosis of mice
Eiko Suzuki (Chiba, Japan), Jun Ikari, Masaki Suzuki, Ayako Shimada, Keiko Yamamoto, Nozomi Tanaka, Ayumi Sekine, Seiichiro Sakao, Koichiro Tatsumi, Takji Suzuki

PA731 Effect of Nintedanib in a rat model of bleomycin-induced lung fibrosis: a transcriptome analysis
Martina Bonatti (Parma, Italy), Vanessa Pitozzi, Paola Caruso, Silvia Pontis, Maria Gloria Pittelli, Caterina Frati, Denise Madeddu, Federico Quaini, Costanza Lagrasta, Maurizio Civelli, Simone Ottolino, Gino Villetti, Marcello Trevisani, Barbara Montanini

PA732 Development of PRS-220, a potential best-in-class, inhaled CTGF/CCN2 inhibitor for the treatment of IPF
Vanessa Neiens (Hallbergmoos, Germany), Vanessa Neiens (Hallbergmoos, Germany), Marina Pavildou, Claudia Wurzenberger, Eva-Maria Hansbauer, Cornelia Wurzenberger, Stefan Gruner, Janet Peper-Gabriel, Thomas Jaquin, Antonio Konitsiotis, Josefine Morgenstern, Josef Prassler, Gabriele Matschiner, Shane Olwill

PA733 Simultaneous inhibition of CTGF and Autotaxin reduces lung fibrosis and improves lung function in mice
Robert J J O'Donoghue (Melbourne, Australia), Caitlin O'Brien, Mun Joo Chuei, Vanessa Welk, Thomas Jaquin, Goran Martic, Ellie H-J Cho, Kathryn Stok, Delaney Haugan, Gabrielle Matschiner, Giuseppe Ciccotosto, Andrew G Jarnicki, Gary P Anderson

PA734 The effect of roflumilast on lipopolysaccharide-induced acute lung injury during neutropenia recovery in mice
Hyonsoo Joo (Seoul, Republic of Korea), Kye Yean Kim, Jin Woo Kim

PA735 Protective effect of inhaled glucocorticosteroid and long-acting beta2-agonist combination on COPD model
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Elena Lebedeva, Elizaveta Volchkova

PA736 Late Breaking Abstract - Changes in human bronchial epithelial cell (BEC) DNA 5-methylcytosine (mC) And 5-hydroxymethylcytosine (hmC) in response to Nepal cook stove smoke exposure
Poojitha Rajasekar (Nottingham, United Kingdom), K C Binaya, Parth Sarathi Mahapatra, Siva Praveen Puppala, Dhruma Thakker, Julie Maciasac, David Lin, Michael Kober, Charlotte E Bolton, Ian Sayers, Ian Hall, Rachel Clifford

Pre-congress content

Session 107 13:15 - 14:15
E-poster: Advances in therapeutic plans for sleep disorders

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Sleep and breathing disorders

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

Chairs: Özen K Basoglu (Izmir, Turkey), Johan Verbraecken (Edegem (Antwerp), Belgium)
<table>
<thead>
<tr>
<th>PA737</th>
<th>The investigation of Isovolumic Acceleration (IVA) as a subclinical marker to assess Right Ventricular (RV) function following the application of CPAP for newly diagnosed Obstructive Sleep Apnoea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Peter Coss (Dublin 8, Ireland), Gerard King, Caroline Daly, Ross Murphy, Anne Marie Mc Laughlin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA738</th>
<th>Positive airway pressure emergent Cheyne-Stokes breathing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Neil Skjodt (Lethbridge (AB), Canada), Ronald S. Platt</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA739</th>
<th>Evaluation quality of life, anxiety, and depression in patients with obstructive sleep syndrome before and after three and twelve months of continuous positive airway pressure therapy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ourania Kotsiou ( Larissa, Greece), Dimitra Siachpazidou, Stavrou Vasileios, George Vavougios, Zoe Danil, Evdokia Gougou, Chaido Pastaka, Nikolas Economou, Chrissi Hatzoglou, Konstantinos Gourgouliais</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA740</th>
<th>Health Outcomes of Continuous Positive Airway Pressure versus Mandibular Advancement Device for the Treatment of Severe Obstructive Sleep Apnea: an Individual Participant Data Meta-analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wojciech Trezpiur (Angers, France), Peter A. Cistulli, Martin Glos, Bruno Vielle, Kate Sutherland, Peter J. Wijkstra, Aarnoud Hoekema, Frederic Gagnadoux</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA741</th>
<th>Efficacy testing for oral appliance therapy in obstructive sleep apnea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kimberly Johnson (Rochester, United States of America), Michelle Herberts, Subha Giri, Patricio Escalante</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA742</th>
<th>Mandibular advancement splints and glucose levels in patients with type 2 diabetes and obstructive sleep apnea: A pilot study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Romeo Alam (Montréal, Canada), Emily Santini, Geneviève Tremblay, John Kimoff, Mark Sherman, Fernanda Almeida, Jean Patrick Arcache, Andrea Benedetti, Zelalem Negeri, Kaberi Dasgupta, Nelly Huynh, Sushmita Pamidi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA743</th>
<th>A novel machine learning approach to predict oral appliance (OA) therapy responses in obstructive sleep apnoea (OSA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Danny Eckert (Bedford Park (SA), Australia), Ritaban Dutta, Benjamin Tong</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA744</th>
<th>Effects of physical exercise on the respiratory muscles, aerobic capacity and quality of life in patients with obstructive sleep apnea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Julián Andrés Rivera Motta (Cali, Colombia), Ricardo Mosquera, Lina Marcela Orozco Mejia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA745</th>
<th>Pitolisant long term effect in sleepy obstructive sleep apnea patients without CPAP.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yves Dauvilliers (Montpellier, France), Johan Verbreek, Markku Partinen, Jan Hedner, Tarja Saaresranta, Ognian Georgiev, Rumen Tiholov, Christian Causse, Isabelle Lecomte, Renaud Tamisier, Patrick Lévy, Jeanne-Marie Lecomte, Jean-Charles Schwartz, Jean-Louis Pépin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA746</th>
<th>Pitolisant efficacy in excessive daytime sleepiness for patients with obstructive sleep apnea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Christian Causse (Paris, France), CHRISTIAN CAUSSE, Jean-Louis Pépin, Yves Dauvilliers, Valérie Attali, Philippe Lehert</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA747</th>
<th>Reduced hypoxic burden following carbonic anhydrase inhibition in obstructive sleep apnea – a randomized placebo-controlled study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Christian Strassberger (Gothenburg, Sweden), Ludger Grote, Kaj Stenlöf, Jan Hedner, Ding Zou</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA748</th>
<th>Effect of acetazolamide on visuomotor performance at altitude in healthy people older than 40 years: RCT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aurelia Elena Reiser (Schaffhausen, Switzerland), Michael Furian, Aline Buerger, Laura Mayer, Mona Lichtblau, Simon R Schneider, Patrick Bader, Paula Appenzeller, Lara Muralt, Maamad Mademilov, Shoira Aydaralievı, Aimara Abdraeva, Aybermet Muratbekova, Talant Maratbekovich Sooronbaev, Silvia Ulrich, Konrad Ernest Bloch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA749</th>
<th>Acetazolamide for Preventing Acute Mountain Sickness in Healthy Older than 40 years. RCT.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Michael Furian (Zürich, Switzerland), Maamad Mademilov, Aimara Abdraeva, Mona Lichtblau, Ulan Seraliev, Nuriddin H Marazhapov, Aline Buerger, Konstantinos Bitos, Laura Mayer, Aurelia Reiser, Simon R Schneider, Simone Buentzli, Shoira Aydaralieva, Aybermet Muratbekova, Talant M Sooronbaev, Silvia Ulrich, Konard E Bloch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA750</th>
<th>Impact of Reboxetine plus Oxybutynin treatment for Obstructed Sleep Apnea on the Cardiovascular Autonomic Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elisa Perger (Milano, Italy), Paolo Castiglioni, Debora Rosa, Stefano Vicini, Paolo Merggì, Andrea Faini, Laura Pini, Luigi Taranto Montemurro, Carolina Lombardi, Gianfranco Parati</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA751</th>
<th>Varenicline administration for smoking cessation may reduce apnea hypnea index in sleep apnea patients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Athanasia Pataka (Thessaloniki, Greece), Christos Frantzidis, Polychroni Gkivogkli, Christiane Nday, Panteleimon Chrisko, Maria Karagianni, Haris Styliadis, Evangelos Paraskevopoulos, Chrysoula Kourtidou-Papadeli, Panagiotis Bamidis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA752</th>
<th>Obstructive sleep apnoe improves on Dupilumab in patients treated for polyposis and severe asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Karl-Christian Bergmann (Berlin, Germany), Torsten Zuberbier</td>
</tr>
</tbody>
</table>
Immediate effect and daily use of a vibrating forehead device in patients with positional apnea.
Laura Hidalgo Armas (Vitoria, Spain), Sandra Ingles, Rafaela Vaca, José Cordero-Guevara, Joaquin Durán-Carro, Jorge Ullate, Amandine Faucher, Jordi Rigau, Ferran Barbe, Joaquín Durán-Cantolla

Therapy compliance and patient satisfaction of a new vibrating forehead device for positional apnea.
Laura Hidalgo Armas (Vitoria, Spain), Sandra Ingles, Rafaela Vaca, José Cordero-Guevara, Joaquin Durán-Carro, Jorge Ullate, Amandine Faucher, Jordi Rigau, Ferran Barbe, Joaquín Durán-Cantolla

The influence of surgical hyoid bone repositioning on upper airway collapsibility
Corine Samaha (Beirut, Lebanon), Hiba Tannous, Diane Salman, Joseph Ghafari, Jason Amatoury

Late Breaking Abstract - An assessment of medical utilization across procedure codes in patients with sleep apnea and type 2 diabetes
Caroline Kaszycki (Pittsburgh, United States of America), Qing Gu, Fei Huang, Felix Lam

Pre-congress content

Session 108 13:15 - 14:15
E-poster: Respiratory physiotherapy: e-health, activities of daily living and measurement properties of instruments
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases Interstitial lung diseases Thoracic oncology
Method(s): General respiratory patient care Public health Pulmonary rehabilitation Physiology
Tag(s): Digital health

Chairs: Tania Janaudis-Ferreira (Montréal (QC), Canada), Ruth E Barker (Warminster, United Kingdom)

A cross-sectional study on the use of information technology among people with COPD, in Sweden
Perminna Sönnerfors (Stockholm, Sweden), Kirsti Skavberg Roaldsen, Ågnetta Stähle, Karin Wadell, Alexandra Halvarsson

Evaluation of an online COPD education for healthcare professionals in long-term care, a longitudinal mixed methods study
Sara Lundell (Umeå, Sweden), André Nyberg, Ulla-Maija Pesola, Åsa Audulv, Karin Wadell

Participatory methodologies in a digital setting; experiences of the co-creation of an eHealth tool for people with COPD
Sara Lundell (Umeå, Sweden), Annika Toots, Perminna Sönnerfors, Alexandra Halvarsson, Karin Wadell

The PLAY test: a new tool to assess activity of daily living in children and adolescents
Fernanda C. Lanza (Belo Horizonte, Brazil), Jenifer Santos, Jessyca Selman, Ariane Crispim, Karina Souza, Danila Baldini, Anne Holland, Simone Dal Corso

Validity and reproducibility of instruments to assess activities of daily living in adults with asthma: preliminary results
Vitória Cavalheiro Puzzi (Londrina, Brazil), Joice Mara Oliveira, Thainá Bessa Alves, Natielly Soares Correia, Diery Fernandes Rugila, Thamires Spositon, Jéssica Priscila Silva, Jessyca Pachi Rodrigues Selman, Fábio Pitta, Karina Couto Furlanetto

Physiological Cost in Daily Life Activities in Lung Cancer
Melda Saglam (Ankara, Turkey), Hamide Sahin, Naciye Vardar-Yaglı, Kübra Kilic, Ebru Calik-Kutukcu, Deniz Inal-Ince, Saadettin Kilickap

Methods to assess free-living physical activities intensity in COPD: a systematic review
Patricia Filipa Sobral Rebelo (Trancoso, Portugal), Maria Tavares, Mariana Santos, Dina Brooks, Alda Marques

Adults with asthma treated with add-on Omalizumab report lower dyspnea in activities of daily living
Joice Mara Oliveira (Londrina, Brazil), Diery Fernandes Rugila, Jéssica Priscila Conceição Silva, Vitória Cavalheiro Puzzi, Fabio Pitta, Alcindo Cerci Neto, Fatima Mitsie Chibana Soares, Karina Couto Furlanetto

Reliability and safety of functional capacity tests in patients with chronic respiratory diseases: remote vs. face-to-face supervision
Simone Dal Corso (São Paulo (SP), Brazil), Daniel P. Do Amaral, Geórgia Calasans, Anne E. Holland

Reliability and validity of the Chester Step Test in people with Interstitial Lung Disease.
Ana Alves (Leiria, Portugal), Ana Oliveira, Pedro G Ferreira, Alda Marques
The minimal detectable change of the Londrina ADL Protocol in individuals with COPD
Leticia F. Belo (Londrina (PR), Brazil), Thaís Paes, Vitória Puzzi, Igor Brito, Juliana Micheleli, Thaís Sant’Anna, Fabio Pitta, Nidia Hernandes

Reference values and equation for the Upper Extremity Function – Simplified test
Natielly Soares Correia (Londrina, Brazil), Joice Mara Oliveira, Denner Ildemar Mello, Andrea Akemi Morita, Daniel Martins Pereira, Daniel Pereira Do Amaral, Rafael Mesquita, Fabio Pitta, Simone Dal Corso, Karina Couto Furlanetto

MINIMAL IMPORTANT DIFFERENCE OF TWO METHODS FOR ASSESSMENT OF QUADRICEPS FEMORIS STRENGTH IN INDIVIDUALS WITH COPD
Lais Santin (Londrina, Brazil), Jéssica Fonseca, Raquel Hirata, Nidia Aparecida Hernandes, Fabio Pitta

Validity and reproducibility of a simple upper limb functional test in subjects with COPD and asthma
Natielly Soares Correia, Joice Mara Oliveira, Diery Fernandes Rugila, Denner Ildemar Mello, Vitória Puzzi, Jessica Priscila Silva, Thainá Bessa Alves, Daniel Martins Pereira, Daniel Pereira Do Amaral, Rafael Mesquita, Simone Dal Corso, Fabio Pitta, Karina Couto Furlanetto

Relationship of quadriceps torque to early post-lung transplant functional recovery after centre-based and tele-rehabilitation
Lisa Wickerson (Toronto (ON), Canada), Dmitry Rozenberg, Chaya Gottesman, Denise Helm, Lianne Singer, Sunita Mathur

Postural balance in COPD with sleep disorders: a cross-sectional controlled study
Caroline Masciho de Censo (São Paulo, Brazil), Viviane Vieira Passini, Barbara Aparecida Teodoro Alcantara Verri, Eloise Arruda Dos Santos, Regina Maria De Carvalho-Pinto, Rafael Stelmach, Geraldo Lorenzi-Filho, Rafaela Fagundes Xavier, Celso Ricardo Fernandes Carvalho

Are pulmonary and extra-pulmonary features affected in patients with Beta-thalassemia?
Ozge Ozalp (Ankara, Turkey), necla Başkurt, Ayşe Volkan

The Effect of Delayed Onset Muscle Soreness on Pulmonary Function Parameters and Exercise Capacity in Healthy Subjects
Ozge Ozalp (Ankara, Turkey), Sema Ozden, H. Baran Yosmaoglu

Inflammatory responses to incremental exercise in chronic obstructive pulmonary disease
Aslıhan Cakmak (Ankara, Turkey), Deniz Inal-Ince, Elif Kocaaga, Ipek Baysal, Samiye Yabanoglu-Ciftci, Emirhan Nemutlu, Lutfi Coplu

ASSOCIATION OF EXERCISE CAPACITY AND ENDOTHELIAL FUNCTION IN PATIENTS WITH FIBROSING INTERSTITIAL LUNG DISEASE
Carina Nunes (São Paulo (SP), Brazil), Regiane Arruda, Frederico Cruz, Fernanda Consolin, Shane Philips, Luciana Sampaio

Functional performance in non-COPD chronic respiratory diseases: a systematic review
Camile Zamboti (LONDRINA, Brazil), Thatielle Garcia, Larissa Dragonetti Bertin, Gabriela Garcia Kinski, Heloise Angelico Pimpão, Heloisa Almeida, Bruna Luiza Tavares, Marcos Ribeiro, Vinicius Cavalheri, Fabio Pitta, Carlos Augusto Camillo

Comparison of exercise capacity, physical activity level and quality of life in patients with different severity of non-cystic fibrosis bronchiectasis
Melike Mese (İZMİR, Turkey), Sema Savcı, Buse Ozcan Kahraman, Aylin Tanriverdi, Damla Gunduz, Can Sevine

Relationship between self-efficacy and physical functioning in patients with COPD
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Sofie Breule, Marieke Wuyts, Lies Glorie, Nikolaas De Maeyer, Thessa Venniast, Wim Jansens, Thierry Troosters
**Pre-congress content**

**Session 110  13:15 - 14:15**

**E-poster: Inhaled treatments for COPD: clinical trials and real-world studies**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

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

**Chairs:** Alexander Mathioudakis (Stockport, United Kingdom), Bilun Gemicioglu (Istanbul, Turkey)

---

**PA790**

Relationship between baseline rescue medication use and reductions in COPD exacerbation rates: a subgroup analysis of the ETHOS trial

John R Hurst (London, United Kingdom), Meilann Han, Bartolome R Celli, Mona Bafadhel, Martin Jenkins, Paul Dorinsky, Mehul Patel

**PA791**

Benefits of triple therapy in moderate, severe, and very severe COPD: subgroup analysis of the ETHOS trial

Klaus F. Rabe (Kiel, Germany), Gary T Ferguson, Martin Jenkins, Mehul Patel, Paul Dorinsky

**PA792**

Risk factors for all-cause mortality in patients with COPD: results from the ETHOS trial

Gary T. Ferguson (Farmington Hills, United States of America), Dave Singh, Klaus F Rabe, Martin Jenkins, Mehul Patel, Paul Dorinsky

**PA793**

The association between health-related quality of life and COPD exacerbations measured by EQ-5D-5L in the ETHOS trial

Dan Jackson (Cambridge, United Kingdom), Dan Jackson, Martin Jenkins, Enrico De Nigris, Mehul Patel, Mario Ouwens

**PA794**

Predicting SGRQ score based on CAT score: post-hoc analysis of the IMPACT trial

Paul Jones (London, United Kingdom), Soham Shukla, Lee Tombs, Afisi Ismaila, Alan Martin, Dawn Midwinter, Isabelle Boucot, Nancy Risebrough, Claus Vogelmeier
Factors influencing LAMA addition to COPD patients receiving ICS/LABA in clinical practice - RETRIEVE study.
Stavros Tryfon (Thessaloniki, Greece), Georgios Krommidas, Athanasios Kapetangiorgis, Maria Bertoli, Polyanthi Papanastasiou

Lung function and reported dyspnea in Greek COPD patients under treatment with fluticasone/salmeterol FDC via Elpenhaler device with or without cardiovascular comorbidity - AEOLOS study.
Maria Bertoli (Pikermi, Greece), Stavros Tryfon, Paschalis Steiropoulos, Alexandros Ginis, Maria Bertoli

Improvements in lung function with umeclidinium/vilanterol analysed by reversibility at screening: a post hoc analysis of the EMAX trial
Leif Björmer (Lund, Sweden), Claus F. Vogelmeier, Edward M. Kerwin, Isabelle H. Boucot, François Maltais, Lee Tombs, Chris Compton, David A. Lipson, Paul W. Jones

Inhaled corticosteroid use and its association with Pseudomonas aeruginosa infection in COPD
Hanaa Shafiek (Alexandria, Egypt), Javier Verdú, Carla López-Causapé, Amanda Iglesias, Lluïsa Ramon-Clar, Carlos Juan, Nuria Toledo-Pons, Antonio Oliver, Borja García Cosío Piqueras

Are COPD prescription patterns aligned with guidelines? a population-based study
Taranah Bahremand (Vancouver, Canada), Mahyar Etminan, Nardin Roshan-Moniri, Mary A. De Vera, Hamid Tavakoli, Mohsen Sadatsafavi

Clinical and economic impact of inhaled corticosteroid withdrawal in Spanish COPD patients treated with triple therapy
Victoria Neches (Tres Cantos, Spain), Laura Amanda Vallejo-Aparicio, Afisi Ismaila, Antoni Sicras-Mainar, Aram Sicras-Navarro, Cruz González, Rafael Cuervo, Soham Shukla, Marcos Garcia-Peñuela

Pre-congress content

Session 111  13:15 - 14:15

E-poster: COVID – 19: treatments and predictive factors

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care  Thoracic oncology

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

Tag(s): COVID

Chairs: Eva Van Braeckel (Ghent, Belgium), Andrea Gramenegna (Milano (MI), Italy)

PA801  Pathogenetic treatment of patients with new coronavirus infection COVID-19
Nikolai Nikolenko (Moscow, Russian Federation), Ludmila Shovkun, Dmitry Kudlay, Elena Kampos

PA802  The first experience of anti-IL6 administration for COVID-19 infection
Alexander Vizel (Kazan (Republic of Tatarstan), Russian Federation), Diana Abdulganieva, Ainagul Bayalieva, Irina Vizel

PA803  A single centre study of COVID-19 patients: correlation with DDIMER and outcomes
Indrajit Sau (Sutton Coldfield, United Kingdom), Ehsaan Qureshi, Muhammad Arif Khalil, Stanley Ejiofor

PA804  Impact of viral load on mortality in hospitalized patients affected by Covid-19 infection.
Cosimo Carlo De Pace (Foggia, Italy), Donato Lacedonia, Giulia Scioscia, Anna Del Colle, Elena Minenna, Maria Rosaria De Carlo, Maria Giovanna Palumbo, Maria Pia Foschino-Barbaro

PA805  Predicting role of coagulation parameters in Covid-19
Sarra Maaazou (Ben Arous, Tunisia), Imen Nouira, Safa Marzouki, Sonia Habibe, Mariem Chaabane, Hajer Racil, Nawel Chaouach, imen nouira

PA806  Obesity in patients with COVID-19: is it a predictive factor for a poor prognosis?
Rhiah Jebali (ARIANA, Tunisia), Sabrine Louhaichi, Ikbel Khalfallah, Sabrine Elfidha, Line Kaabi, Safa Marzouki, Med Ali Kharrat, Jamel Ammar, Besma Hamdi, Aghès Hamzaoui

PA807  Recovery from Respiratory Failure in Patients with COVID-19
Miraç Öz (Ankara, Turkey), Serhat Erol, Ashlan Giürün Kaya, Özlem İşık, Fatma Çiftci, Güle Çınar, Çağlar Uzun, Alpay Azap, Akin Kaya, Özlem Özdemir Kumbasar

PA808  Does D-dimer levels on admission predicts venous thromboembolism in patients with COVID-19?
Sabrine Louhaichi (Ariana, Tunisia), Mariem Ferchichi, Ikabelle Khalfallah, Nouha Boubaker, Safa Belkhir, Jamel Ammar, Besma Hamdi, Aghès Hamzaoui
Predictive factors for disease progression in moderate to severe COVID-19 patients
Nouha Boubaker (Nabeul, Tunisia), Sabrine Louhaichi, Ikbel Khalfallah, Safa Belkhir, Mariem Ferchichi, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

Does CT scan really predict severity in covid.19 patients?
HASSENE BAILI (Sousse, Tunisia), HASSENE BAILI, Imene Touil, Jihene Chelly, Amira Omrane, Soumaya Bouchareb, Jihene Ayeb, Souhir Kessissa, Fatma Elaarbi, Lamia Bouzaggarou, Nadia Keskes Boudawara, Jalel Knani, Leila Boussoffara

Characteristics of COVID-19 infection in diabetics
Houda Snène (Tunis, Tunisia), Wafa Fenina, Hana Blibech, Donia Belkhir, Meriem Maalej, Issraa El Wadhane, Aymen Jebali, Ahmed Laafer, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Alpha 1-Antitrypsin deficiency (AATD) in patients with ARDS consequent to SARS-CoV-2 infection
Andrea Vianello (Padova (PD), Italy), Fausto Braccioni, Gabriella Guarneri, Beatrice Molena, Alessia Achille, Sara Lococo, Leonardo Salviasi, Ernesto Crisafulli, Leonardo Bertagna De Marchi, Marco Caminati, Gianenrico Senna

Inflammatory biomarkers as predictors of intubation and mortality in severe COVID-19
Diego Alexis García Estudillo (Mexico, Mexico), Angel Emmanusal Vega-Sánchez, Jorge Rojas-Serrano, Mayra Edith Mejia-Avila, Heidegger Norberto Mateos-Toledo, Andrea Estrada-Garrido, Jonathan Saúl Castillo-Pedroza

Interleukin 6, as a « Target Molecule », in the Assessment of The Severity of SARS-2 COVID Infection
ASMA SAIDANE (Tunis, Tunisia), Selsabil Daboussi, Samira Mhamdi, Asma/khalil Riahi/bahri, Islam Mejri, Chiraz Aichaouia, Zied Moatameri, Mohsen Khadhraoui

Dexamethasone in patients hospitalized with COVID-19: a NNT and NNH analysis of RECOVERY study
Luigino Calzetta (Roma (RM), Italy), Marina Aiello, Paola Rogliani, Alfredo Chetta

Halotherapy and Covid-19: an oppinion for a possible future prevention approach
Radu Adrian Crisan-Dabija (Iasi, Romania), Claudia Elena Grigoras-Ichim, Alina Costina Luca, Gabriel Ioan Sandu, Dumitru Filipeanu

Experience of olokizumab use in COVID-19 patients
Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova, Semen Zotov

Oxana Fesenko (Moscow, Russian Federation)

Late Breaking Abstract - Correlation of CT severity score and Inflammatory markers to predict the disease severity in COVID 19 patients
Abhijeet Lonsane (Pune, India), R.K. Chopra, Mohanakrishnan Jayamani

Late Breaking Abstract - Covid Oximetry AT Home - A novel pandemic approach
Saagar Patel (Manchester, Greater Manchester, United Kingdom), Malapanjudi Chandrashekar, Kaley Whelan, James Wallace

Pre-congress content
Session 112  13:15 - 14:15

E-poster: New insight into the immunology of allergies, asthma and COPD: from mouse to man
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): Cell and molecular biology  Physiology  Pulmonary function testing  Imaging  General respiratory patient care  Epidemiology  Public health

Chairs: Lena Uller (Lund, Sweden), Peter Gibson (Newcastle, Australia)

Molecular characterization of bronchoconstriction induced by activated T cells
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Kouyama, Miyako Yamaguchi, Chiemi Kunitani, Akemi Ohtomo-Abe, Yuichiro Kawasaki, Keisuke Iwamoto, Koichi Yano, Maki Iwata, Kisako Nagayama, Kai Ryu, Yuto Nakamura, Yuto Hamada, Kentaro Watai, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomi, Takayuki Ohtomo, Osamu Kaminuma

Peculiarities of lipoperoxidation processes in chronic obstructive pulmonary disease associated with multiple myeloma
Olga Smirnova (Krasnoyarsk, Russian Federation), Olga Smirnova
ILC2 cells from severe allergic and eosinophilic asthma demonstrate increased expression of TSLP receptor (TSLPR) and enhanced proliferative capacity.
Bilal Malik (Newcastle, Australia), Rebecca Mckerrow, John Harrington, John W. Upham, Nathan Bartlett, Peter Ab Wark

Does parental tuberculosis infection increase the risk of asthma in their offspring? A Norwegian registry-based study
Juan Pablo López-Cervantes (Bergen, Norway), Rajesh Shigdel, Tehmina Mustafa, Cecilie Svanes

Correlation of eotaxin-3 gene expression and other IL-13-induced genes in patients with asthma
Simon Couillard (Oxford, United Kingdom), James Melhorn, Akul Singhania, Daniel Horowitz, Ratko Djukanović, Christopher H Woell, Timothy S C Hinks

Effects of anti-IL-17 on inflammation and oxidative stress in an ASTHMA-COPD overlap syndrome (ACO) model
Nilo Martins (São Paulo, Brazil), Leandro D. N. Camargo, Francine M. D. Almeida, Juliana Lourenço, Suellen Bezerra, Tabata M.D. Santos, Silvia Fukuzaki, Fernando D. T. Q. D. S. Lopes, Milton M. Martin, Edna A. Leick, Renato F. Righetti, Carla M. Prado, Iolanda D. F. L. C. Tibério

Identifying eosinophil subsets in a mouse model of pollutant-aggravated allergic asthma
Annelies Bontinck (Gent, Belgium), Joyceline De Volder, Mirjam P. Roffel, Guy G. Brusselle, Guy F. Joos, Tania Maes

The effect of IL-33 and IL-25 on the rhinovirus-induced susceptibility of the lung vascular endothelium to SARS-CoV-2, MERS and 229E coronaviral infections
Maciej Chalubinski, Izabela Gulbas, Mateusz Gawrysiak, Robert Szewczyk, Adrian Gajewski, Marek L. Kowalski

Traffic-related air pollution induces mitochondrial oxidative stress and transgenerational mitochondrial dysfunction
Baoming Wang (s t lenoards, Australia), Yik Chan, Ayad Anwer, Sonia Saad, Hui Chen, Brian Oliver

Thymic stromal lymphopoietin (TSLP) as a local biomarker of hypertrophic changes in the synonasal mucosa in children with atopic bronchial asthma (BA) and allergic rhinitis (AR)

Hypertrophic and polyposis synonasal mucosa (SM) changes in children with atopic bronchial asthma (BA) and allergic rhinitis (AR)
Igor A. Klimanov (Moscow, Russian Federation), Nikolay Eruslankin, Anastasija Vagina, Tatyana Eliseeva, Svetlana Krasilnikova, Vilya Bulgakova, Ivan Balabolkin, M. Glukhova, L. Nikitina, S. Soodaeva

Interleukin-10 expressing regulatory B cells are decreased in blood of smokers and COPD patients
Merel Jacobs (Gent, Belgium), Sven Verschraegen, Bihyga Sulhi, Guy Brusselle, Ken Bracke

IL-33 may augment the effect of rhinovirus HRV16 on the inflammatory activity of human lung vascular endothelium – possible implication for asthma exacerbations.
Adrian Gajewski (Łódź, Poland), Mateusz Gawrysiak, Robert Szewczyk, Marek L. Kowalski, Maciej Chałubiński

Respiratory syncytial-virus induced cytokine production from leukocytes is impaired in severe asthma
Kaschin Jamal Jameel (Bochum, Germany), Sarah Yanik, Eike Bülthoff, Simon Rohde, Daniel Weidinger, Faisal Yusuf, Juliane Kronsbein, Matthias Tenbusch, Jürgen Knobloch

Different patterns of autoAbs in asthma-COPD overlap cogort.
Anna Konischcheva (Moscow, Russian Federation), Valentina Gervazieva, Galina Osipova, Tatiana Ospelnikova, Daria Fomina

Interferon-dependant and immune cell-based mechanisms of antiviral resistance of the human lung vascular endothelium infected with rhinovirus HRV16
Mateusz Gawrysiak (Lodz, Poland), Adrian Gajewski, Robert Szewczyk, Mateusz Kobierecki, Michał Szymański, Izabela Gulbas, Aleksandra Likoniska, Sylwia Michlew ska, Marek L. Kowalski, Maciej Chałubiński

LSC - 2021 - Mesenchymal stromal cells reduce house dust mite induced allergic airway inflammation in a humanised MIF expressing mouse model
Ian Hawthorne (Maynooth, Ireland), Hazel Dunbar (Hazel.dunbar.2015@umail.ie / Cellular Immunology Laboratory, Department of Biology, Maynooth University,Maynooth), Seamas Donnelly (Seamas.donnelly@tcd.ie / Department of Medicine, Trinity College Dublin and Tallaght Hospital,Dublin), Karen English (Karen/english@mu.ie / Cellular Immunology Laboratory, Department of Biology, Maynooth University,Maynooth)

Pre-congress content Session 113 13:15 - 14:15
E-poster: Bronchoscopy in the COVID - 19 era: cryobiopsy
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Endoscopy and interventional pulmonology, Surgery, General respiratory patient care, Respiratory intensive care, Pulmonary function testing

Tag(s): COVID

Chairs: Preyas Vaidya (Navi Mumbai, India), Arschang Valipour (Wien, Austria)

PA839 Pneumology in COVID-19 times: facing misleading diagnosis
Javier Poyo Molina (Mutilva, Spain), Javier Poyo Molina, Koral Fernández De Roitegui Pérez, Clara Ortega Michel, Irantzu Elorzaga Sagasta, Miguel Ángel Sánchez De Toró, Paula Bordallo Vázquez, Blanca Virgala Ocio, Leire Álvarez Peña, David Bravo Blanco, Francisco Javier Ribas Solís, Laura Tomás López

PA840 Accuracy of the multidisciplinary diagnosis of COVID-19 in patients with negative nasopharyngeal swabs RT-PCR, evaluated using BAL as diagnostic gold standard.
Sara Tomassetti (Florence, Italy), Valentina Luzzi, Giulia Biadene, Guja Bernacchi, Leonardo Gori, Sonia Bambina, Marco De Martin, Edoardo Cavigli, Dilietta Cozzi, Vittorio Miele, Gianmaria Rossolini, Simona Pollini, Cosimo Nardi, Anna Peired, Alessandro Morettini, Carlo Nozzoli, Adriana Poggesi, Lorenzo Menicacci, Valentina Scotti, Giogia Falchetti, Elias Romano, Ombretta Para, Lorenzo Caruso, Federico Lavorini

PA841 Bronchoscopy findings in COVID-19 patients requiring ECMO-VV
Toni Marin (Badalona (Barcelona), Spain), Pere Serra, Rachid Tazi Mezalek, Carmen Centeno, Marina Compte, Sergi Martinez, Eduardo Coluccio, Pilar Ricart, Felipe Andreo, Jorge Abad, Antoni Rosell

PA842 ENDOBRONCHIAL VALVE POSITIONING FOR ALVEOLAR-PLEURAL FISTULA COMPLICATING SEVERE COVID-19 PNEUMONIA
Filippo Gozzi (Modena, Italy), Roberto Tonelli, Dario Andrisani, Ivana Castaniere, Pierluigi Donatelli, Fabiana Trentacostoi, Mariarosaria Pellegrino, Giulia Bruzzi, Linda Manicardi, Antonio Moretti, Chiara Nani, Caterina Cerbone, Morgana Verini, Alessandro Andreani, Gaia Cappiello, Enrico Clini, Alessandro Marchioni

PA843 Sedative medications in COVID-19 positive ARDS patients undergoing tracheostomy
Christopher Kapp (Baltimore, United States of America), Adrian Latifi, Andrew Demato, David Feller-Kopman

PA844 Bronchoscopy in COVID-19 ARDS patients on mechanical ventilation: a prospective study
Sameer Bansal (Navi Mumbai (Maharashtra), India), Ravindra Mehta, Ashwin Kumar, Ammol Thorbole, Chakravarthi L, Hariprasad Kalpakam

PA845 Bronchoscopy safety box and its utility as a barrier to COVID-19
Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Parimal Deshpande, Swapnil Bakamwar, Gauri Gadge

PA846 Straight to Medical thoracoscopy approach for undiagnosed pleural effusions – adapting to the COVID era
Maged Hassan (Alexandria, Egypt), Anwar El-Ganady

PA847 HISTOLOGICAL FINDINGS IN TRANSBRONCHIAL CRYOBIOPSIES OBTAINED FROM PATIENTS AFTER COVID-19
Jose David Cardoso Landivar (BARCELONA, Spain), Mario Culebras Amigo, Karina Loor, Antonio Alvarez, Irene Sansano, David Clofent, Xavier Muñoz, Eva Polverino, Almudena Felipe, Se-Covid-19 Team

PA848 Evaluation of a transbronchial cryoprobe for the ablation of pulmonary nodules – a pilot study
Daniel Hammer (Budapest, Hungary), Péter Horváth

PA849 Mucosal cryobiopsies – a new method for studying airway pathology in asthma
Morten Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Caroline Sanden, Carl Magnus Clausson, Daisy Bornesund, Jonas Erjefält, Celeste Porsbjerg

PA850 Value of cryobiopsy in non-interstitial diseases
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Paola Antonella Benedetti, Walther Ivan Giron Matute, Alicia Oliva Ramos, Luis Puente Maestu, Jose Javier Garcia Lopez

PA851 Feasibility study of targeted cryobiopsy in patients with peripheral pulmonary nodules with the novel 1.1 mm cryoprobe without removing the bronchoscope or guide sheath.
Markus Hofer (Zürich, Switzerland), Damian Gruber, Dieter Erdin, Simone Braun Semadeni, Sieghart Filippi, Maik Häntsche, Jürgen Hetzel
Predictors of pneumothorax after transbronchial lung cryobiopsy for diagnosis of interstitial lung diseases
Ana Catarina Gouveia Cardoso (Vila Nova de Famalicão, Portugal), Mariana Serino, David Barros Coelho, Susana Guimarães, Conceição Souto Moura, Patricia Caetano Mota, Natália Melo, José Miguel Pereira, Rui Cunha, André Carvalho, António Morais, Helder Novais-Bastos

Safety and performance of transbronchial cryobiopsy for peripheral lung lesions
Christopher Kapp (Baltimore, United States of America), Felix Herth, Max Mayer, Jeffrey Thiboutot, Ralph Eberhardt, Jayuan Sub, Jonas Herth, Konstantina Kontogianni, Llonny Yarmus

To compare effect of Dexmedetomidine and low dose propofol on VAS (visual Analog Score) for cough post flexible Bronchoscopy
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Shivkant Agarwal, Prashant Bendre, Amit Garg, Manisha Narain Tyagi, Manya Narain Tyagi

Multimodality endoscopic treatment for tracheobronchial stenosis secondary to endobronchial tuberculosis
Nai Chien Huan (Kajang, Malaysia), Khai Lip Ng, Fatimah Azmah Mohammad, Nur Husna Mohd Aminudin, Noorul Afdiza Muhammad, Ummi Nadira Daut, Mona Zaria Nasaruddin, Jamalul Azizi Abdul Rahman

Outcomes of bronchial artery embolization for the management of hemoptysis
Nada Gader (nabeul, Tunisia), Narjes Abid, Manel Loukil, Ines Laouini, Slim Kalboussi, Khaled Bouzaidi, Hedia Ghrairi

Endobronchial treatment for post-pneumonectomy bronchopleural fistula
Güntuğ Bathan (Izmir, Turkey), Kenan Can Ceylan, Seyda Örs Kaya

Mitigation of hippocampal cellular apoptosis and neuroinflammation after MV by diaphragm neurostimulation.
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Matt Gani, Doug Evans, Steve Reynolds

Rapamycin reduces eosinophilopoiesis through suppression of IL-5 production by bone marrow ILC2s
Emma Boberg (Gothenburg, Sweden), Julie Weidner, Carina Malmhäll, Jenny Calvén, Carmen Corciulo, Madeleine Rådinger

Short-range interactions between fibrocytes and CD8+ T cells modulate the balance between tissue repair and destruction in COPD
Edmée Eyraud (Bordeaux, France), Elise Maurat, Pierre Vallois, Florian Levet, Jean-Baptiste Sibareta, Pierre-Olivier Girodet, Matthieu Thumerel, Cecile Contin-Bordes, Patrick Berger, Isabelle Dupin

Innate lymphocytes -ILC2- might be the drivers of T2-high nonatopic asthma in children
Matteo Bonato (Padova, Italy), Erica Bazzan, Deborah Snijders, Graziella Turato, Martina Turrin, Manuel G Cosio, Angelo Barbato, Marina Saetta, Simonetta Baraldo

Mast cell-derived serotonin enhances methacholine-induced airway hyperresponsiveness in house dust mite-induced experimental asthma
Erika Haide Mendez (SE-751 23, Sweden), Perla Abigail Alvarado Vazquez, Willem Abma, Oscar Simonson, Sergey Rodin, Thorsten B. Feyeraabend, Andrei Malinovschi, Christe Janson, Mikael Adner, Jenny Hallgren

Senescent human bronchial epithelial cells induce small airway fibrosis in mice
Nayuta Saito (Barcelona, Spain), Fernanda Ines Hernandez, Federico Pietrocola, Manuel Serrano

Mitochondrial DNA stress activates MHC class I antigen presentation and CD8+ T-cell immunity: implications for pulmonary fibrosis
Xinyuan Wang (Munich, Germany), Thomas Meul, Ilona Kammerl, Yuqin Wang, Christoph Mayr, Herbert B. Schiller, Silke Meiners

Cytogenetic analysis in peripheral blood lymphocytes from asthmatic patients with different severity
Andrey Evgenievich Lintsov (Saint-Peterburg, Russian Federation), Pavel Slizhov, Alisher Soliev, Sergey Shevelev, Victor Mikhailov

Pre-congress content Session 114 13:15 - 14:15
E-poster: Emerging new mechanisms of chronic lung disease
Aims : This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s) : Airway diseases, Respiratory critical care, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : Cell and molecular biology, Respiratory intensive care, General respiratory patient care, Pulmonary function testing, Epidemiology, Physiology, Pulmonary rehabilitation

Chairs : Charalampos Michaeloudes (London, United Kingdom), Aleksandra Szczepankiewicz (Pozna, Poland)

Mitigation of hippocampal cellular apoptosis and neuroinflammation after MV by diaphragm neurostimulation.
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Matt Gani, Doug Evans, Steve Reynolds

Rapamycin reduces eosinophilopoiesis through suppression of IL-5 production by bone marrow ILC2s
Emma Boberg (Gothenburg, Sweden), Julie Weidner, Carina Malmhäll, Jenny Calvén, Carmen Corciulo, Madeleine Rådinger

Short-range interactions between fibrocytes and CD8+ T cells modulate the balance between tissue repair and destruction in COPD
Edmée Eyraud (Bordeaux, France), Elise Maurat, Pierre Vallois, Florian Levet, Jean-Baptiste Sibareta, Pierre-Olivier Girodet, Matthieu Thumerel, Cecile Contin-Bordes, Patrick Berger, Isabelle Dupin

Innate lymphocytes -ILC2- might be the drivers of T2-high nonatopic asthma in children
Matteo Bonato (Padova, Italy), Erica Bazzan, Deborah Snijders, Graziella Turato, Martina Turrin, Manuel G Cosio, Angelo Barbato, Marina Saetta, Simonetta Baraldo

Mast cell-derived serotonin enhances methacholine-induced airway hyperresponsiveness in house dust mite-induced experimental asthma
Erika Haide Mendez (SE-751 23, Sweden), Perla Abigail Alvarado Vazquez, Willem Abma, Oscar Simonson, Sergey Rodin, Thorsten B. Feyeraabend, Andrei Malinovschi, Christe Janson, Mikael Adner, Jenny Hallgren

Senescent human bronchial epithelial cells induce small airway fibrosis in mice
Nayuta Saito (Barcelona, Spain), Fernanda Ines Hernandez, Federico Pietrocola, Manuel Serrano

Mitochondrial DNA stress activates MHC class I antigen presentation and CD8+ T-cell immunity: implications for pulmonary fibrosis
Xinyuan Wang (Munich, Germany), Thomas Meul, Ilona Kammerl, Yuqin Wang, Christoph Mayr, Herbert B. Schiller, Silke Meiners

Cytogenetic analysis in peripheral blood lymphocytes from asthmatic patients with different severity
Andrey Evgenievich Lintsov (Saint-Peterburg, Russian Federation), Pavel Slizhov, Alisher Soliev, Sergey Shevelev, Victor Mikhailov
New possibilities for modifying the course of chronic obstructive pulmonary disease: the effect of tiotropium bromide on certain pathogenetic links of neocollagenogenesis of the bronchial tree
Mariana Kulynych-Miskiv (Galych, Ukraine), Mykola Ostrovskyy, Ksenia Ostrovskaya, Vasyl Miskiv, Iryna Savelikhina, Oleksandr Varunkiv, Kostiantyn Shvets

The pIgR-IgA system as a new player in lung fibrosis
Thomas Planté-Bordeneuve (Ottignies, Belgium), Thomas Planté-Bordeneuve, Charles Pilette, Yousof Yakoub, Marylène Lecocq, François Huaux, Antoine Froidure

Genetic deletion of SLPI promotes inflammatory cell recruitment in a model of chronic lung disease
Ryan Brown (Belfast, United Kingdom), Peter Ferris, Caioïfa Dougan, Rebecca Delaney, Donna Small, Marcus A. Mall, Sinéad Weldon, Clifford C. Taggart

Immunoproteasome function as a potential biomarker for asthma severity and response to therapy
Lex Kaiser (Munich, Germany), Sophie Hardy, Marion Frankenberger, Katrin Milger, Silke Meiners

Exhausted T lymphocytes in chronic obstructive pulmonary disease: single-cell analysis of human lung tissue
Sun Hye Shin (Seoul, Republic of Korea), Kyu-Tae Kim, Kyung Yeon Han, Jiseon Kim, Donghyun Park, Na Hyun Kim, Chang-Ho Shon, Jin-Young Huh, Sei Won Lee, Hye Yun Park

Functional state of erythrocytes in chronic obstructive pulmonary disease on the background of COVID-19, ways of correction
Lilia Todoriko (Chernivtsi, Ukraine), Mykola Gumeniuk, Ihor Semianiv, Olexandr Denisov

The commensal bacterium Rothia mucilaginosa has anti-inflammatory properties in vitro and in vivo, and negatively correlates with sputum pro-inflammatory markers in chronic airway disease.
Aurélie Crabbé (Ghent, Belgium), Charlotte Rigauts, Juliana Aizawa, Steven Taylor, Geraint Rogers, Matthias Govaerts, Paul Cos, Lisa Ostyn, Sarah Sims, Eva Vandeplasse, Mozes Sze, Yves Dondelinger, Lars Vereecke, Heleen Van Acker, Cristina Cigana, Alessandra Bragonzi, Tom Coenye

Resistin, 8-isorpostanes and stress right ventricular diastolic dysfunction - predictors for exacerbations in non-severe chronic obstructive pulmonary disease patients
Radostina Cherneva (Sofia, Bulgaria), Zheyna Cherneva

Pre-congress content Session 115 13:15 - 14:15
E-poster: Asthma clinical trials and real-life studies
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases
Method(s): General respiratory patient care  Epidemiology  Pulmonary function testing  Endoscopy and interventional pulmonology  Imaging  Cell and molecular biology
Chairs: David J Jackson (London, United Kingdom), Imran Satia (Hamilton, Canada)

A stepped treatment algorithm for chronic respiratory disease using budesonide-formoterol in a rural healthcare setting in Vietnam
Erick Huang (Sydney, Australia), Greg Fox, Ngoc Yen Pham, Thu Anh Nguyen, Van Giap Vu, Phuong Phan Thu, Quy Chau Ngo, Viet Nhung Nguyen, Guy Marks

Tezepelumab efficacy in patients with severe, uncontrolled asthma and comorbid nasal polyps in NAVIGATOR
Andrew Menzies-Gow (London, United Kingdom), Jonathan Corren, Elliot Israel, Tobias Welte, Christopher S Ambrose, Bill Cook, Gillian Hunter, Jean-Pierre Llanos-Ackert, Gene Colice

Association between Th2 biomarker levels and efficacy of house dust mite sublingual allergy immunotherapy in adults with allergic asthma
marianne witten (Horsholm, Denmark), Ila Hoof, Thomas Stranzl, Stephanie Brand, Mohamed H. Shamji, Eric D. Bateman, Eugene R. Bleecker, Peter S. Andersen
Characteristics of super-responders to anti IL-5 biologics in a nationwide Danish severe asthma cohort
Marianne Bastrup Soendergaard (København N, Denmark), Susanne Hansen, Ole Hilberg, Charlotte Suppli Ulrik, Karin Dahl Assing, Alexandra Wimmer-Aune, Anne-Sofie Bjerrum, Lycely Calderon Dongo, Muzhda Ghanizada, Christian Wølhk, Celeste Porsbjerg

BIOLOGICS SWITCH IN SEVERE EOSINOPHILIC ASTHMA
Gabriella Guarnieri (Padova (PD), Italy), Marco Caminati, Diego Bagnasco, Fulvia Chieco Bianchi, Elisiana Carugnanno, Matteo Maule, Beatrice Molena, Girolamo Pelaia, Laura Pini, Gianenrico Senna, Andrea Vianello, Ernesto Crisafulli

Effect of dupilumab on improving physical activity in patients with severe asthma
Yi Zhang (Tarrytown, United States of America), Lawrence Sher, Santiago Quirce, Giovanni Passalacqua, Camille Taillé, Lauren Cohn, Nadia Daizadeh, Nami Pandit-Abid, Benjamin Ortiz, Asif H. Khan

Staphylococcal Enterotoxins sensitization and response of Omalizumab in severe atopic and non atopic asthma
Nicolas Migueres (Strasbourg, France), Anh Poirrot, Nan Zhang, Claus Bachert, Frédéric De Blay

Severe asthma and biologic therapies during COVID-19: supporting patients care with home administration of mepolizumab and omalizumab
Małgorzata Farnik (Katowice, Poland), Karolina Zawada-Drozd, Adam Barczyk

Clinically Meaningful Improvement in Total Rhinoconjunctivitis Score with Olopatadine/mometasone Combination Nasal Spray in Patients with Seasonal Allergic Rhinitis: A Pooled Analysis
Vineet Aggarwal (Mumbai, India), Eli O Meltzer, Wen Wu, Anne Deen Christensen, Jane Wheeler, Cynthia Caracta

Population pharmacokinetic and exposure-response analyses to support fixed dosing of tezepelumab in patients with severe asthma
Alexander MacDonald (Melbourn, United Kingdom), Yanan Zheng, Ye Guan, Yu Ying Gao, Lu Liu, Lubna Abuqayyas, Åsa Hellqvist, Karin Bowen, Gene Colice

Safety of as-needed formoterol in asthma patients on different maintenance long-acting ß2-agonists
Helen Reddel (Sydney, Australia), Guy Brusselle, Rosa Lamerca, Per Gustafson, Gary P Anderson, Carin Jorup

Long-Acting Beta Agonist Asthma Pharmacogenetic Loci Identified in Two Multi-Racial Asthma Clinical Trials
Victor Ortega (Bermuda Run NC, United States of America), Michelle Daya, Elizabeth Ampleford, Gregory Hawkins, Wendy Moore, Stephen Peters, Kathleen Barnes, Eugene Bleecker, Deborah Meyers

“A RANDOMISED CONTROLLED STUDY ON EFFECT OF ORAL MAGNESIUM SUPPLEMENTS IN CONTROL OF SYMPTOMS OF BRONCHIAL ASTHMA AND LUNG FUNCTION PARAMETERS”
YANAMADALA ROWHIT (Vijayawada, India)

Transitioning from hospital-based biologic care to home care in a severe asthma patient population; a patients’ perspective
Ryan Robinson (Liverpool, United Kingdom), Ryan Robinson, Karl Hunter, Daniella Mclenaghan, Fathimath Shiham, Catherine Lowe, Jane Byrne, Livingstone Chishimba, Seher Zaidi, Gareth Jones, Hannah Joplin, Hassan Burhan

Impact of mepolizumab in severe asthma with nasal polyps

Late Breaking Abstract - Anti-IL-5 mepolizumab minimally influences residual blood eosinophils in severe asthma
Glenn Van Hulst (Lège, Belgium), Joseph Jorssen, Nathalie Jacobs, Monique Henket, Renaud Louis, Florence Schleich, Fabrice Bureau, Christophe Desmet

Late Breaking Abstract - Aldo-keto reductases expression correlate corticoids efficacy in vitro and on chronic rhinosinusitis with nasal polyps
Anselm Morell García (Hradec Králové, Czech Republic), Javier Milara, Lenka Laštovičková, Inês Roger, Ainhoa García-Lliberós, Enrique Zapater-Latorre, Miguel Armengot, Julio Cortijo, Vladimir Wsól

Late Breaking Abstract - Early response to benralizumab in Canadians with severe eosinophilic asthma
Erika Penz (Saskatoon, Canada), Stephen G Noorduyn, Brett Lancaster, Alain Gendron, Lawrence Mbuagbaw, Erika Penz

Late Breaking Abstract - Real-life rapidity of dupilumab effects on symptom control, lung function and prednisone intake in patients with severe eosinophilic asthma and nasal polyposis
Corrado Pelaia (Catanzaro (CZ), Italy), Nicola Lombardo, Maria Teresa Busceti, Alessia Dragone, Giovanna Lucia Piazzetta, Claudia Crimi, Alessandro Vatrella, Girolamo Pelaia

Late Breaking Abstract - The impact of treatment with mepolizumab on airway remodeling in patients with severe eosinophilic asthma.
Marek Przybyszowski (Kraków, Poland), Iwona Gross-Sondej, Jacek Zarychta, Stanisława Bazan-Socha, Grażyna Bochenek, Jerzy Soja, Krzysztof Sładek
E-poster: COVID-19 and acute respiratory failure

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care, Airway diseases

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

Tag(s): COVID

Chairs: Christian Karagiannidis (Cologne, Germany), Christoph Fisser (Regensburg, Germany)

PA895 Ventilation management in COVID–19 ARDS vs ARDS from another origin
Anissa Tsonas (Amsterdam, Netherlands), Michela Botta, Ary Serpa Neto, Janneke Horn, Frederique Paulus, Marcus Schultz

PA896 Risk stratification using SpO2/FiO2 and PEEP in COVID-19 ARDS
Jan-Paul Roozeman (AMSTERDAM, Netherlands), Ary Serpa Neto, Markus W Hollmann, Frederique Paulus, Marcus J Schultz, Guido Mazzinari, Luigi Pisani

PA897 Prognosis factors influencing three-month respiratory outcomes in intensive care unit survivors after COVID-19 pneumonia
Sinan Karaer (Besancon, France), Guillaume Eberst, Frederic Claud, Lucie Laurent, Aurélie Meurisse, Pauline Roux-Clauéd, Cindy Barnig, Kevin Bouiller, Catherine Chirouze, Julien Behr, Franck Grillet, Ophélie Ritter, Sébastien Pili-Floury, Hadrien Winiszewski, Emmanuel Samain, Gilles Capellier, Virginie Westeel

PA898 Risk factors and prognostic impact of ventilatory support in HIV patients on Intensive Care Unit (ICU)
Arik Bernard Schulze (Münster, Germany), Felix Rosenow, Michael Mohr, Georg Evers

PA899 Evolution of respiratory and biopsychosocial affectation in critical COVID19 patients after hospital discharge.
Carlos Manzano (Lleida, Spain), Sally Santistevê, Paola Carmona, Aida Monge, Anna Moncusi- Foix, Clara Gort-Paniello, Rafaela Vacas, David De Gonzalo-Calvo, Ferran Barbé, Jessica González

PA900 Characterisation of COVID-19 hospitalised frail patients not for ICU admission
Yasser Noeman Ahmed (Southend, United Kingdom), Maryam Noeman, Abdulla Bedir, Iman El Sayed, Ashraf Roshdy, Ciara Bansal, Patrice Ayuen, Nour Abualela, Shashank Sharma

PA901 Using Machine Learning to Predict mortality for first-day COVID-19 patients presenting to the ICU
Nahal Mansouri (Lausanne, Switzerland), Elham Jamshidi, Sahand Rahi

PA902 Surgical facemask affects fugitive emissions during aerosol drug delivery by high-flow nasal therapy
Elena Fernández Fernández (Galway, Ireland), Barry Murphy, Marc Macgilllainein, Gavin Bennett, Ronan Macloughlin

PA903 Awake prone position in hypoxemic Covid 19 Pneumonia: Does it reduce the mortality rate?
Islam Mejri Ep Ajili (Hammamlif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Maroua Kacem, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemi, Mohsen Khadhraoui

PA904 Gender differences in ventilation management in COVID-19
Pien Swart (Amstelveen, Netherlands), Marcus Schultz, Ary Serpa Neto, Frederique Paulus

PA905 Assessment of lung re-aeration at two levels of PEEP in patients with early and late COVID-19 related ARDS – a retrospective analysis
Manry Smit (Utrecht, Netherlands), Ludo Beenen, Christel Valk, Milou De Boer, Maae Scheerder, Joukke Annema, Frederique Paulus, Janneke Horn, Alexander Vlaar, Fabian Kooij, Markus Hollmann, Marcus Schultz, Lieuwe Bos

PA906 Derivation and validation of a simple score to help ruling-out COVID-19 in the Emergency Department
Jacopo Davide Giamello (Busca, Italy), Giulia Paglietta, Giulia Cavalot, Attilio Allione, Sara Abram, Luca Dutto, Sara Bernardi, Emanuele Bernardi, Francesco Tosello, Fabrizio Corsini, Bartolomeo Lorenzati, Gianpiero Martini, Andrea Sciolla, Giuseppe Lauria

PA907 Risk factors for respiratory failure in patients with COVID-19 pneumonitis: A retrospective study
Loui Ezzat (Riyadh, Saudi Arabia), Abdullah Mobeireek, Mohammed Alhajji, Saud Al Saleh, Ezzat Loui, Sultan Al Amro, Abdullah Al Jibreen, Arnen Torchian, Lju Ahmed

PA908 COVID-19 patient with acute respiratory distress syndrome (ARDS) benefit most from an early prone position
Richard Vollenberg (Münster, Germany), Markus Strauss, Katharina Schuette-Nuetgen, Hartmut Schmidt, Arik Bernhard Schulze, Phil-Robin Tepasse
<table>
<thead>
<tr>
<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA909</td>
<td>Awake Prone Positioning in COVID-19 pneumonia: A useful strategy in resource limited setting</td>
<td>Raja Dhar (Kolkata (West Bengal), India), Shyam Krishnan, Shubham Sharma, Praveen Kumar Shahi, Milind Sovani</td>
</tr>
<tr>
<td>PA910</td>
<td>Importance of admission biomarkers in prognostication of patients with SARS-Cov-2</td>
<td>Milan Barik (Hull (North Humberside), United Kingdom), Akhil Sawant</td>
</tr>
<tr>
<td>PA911</td>
<td>Challenges in steroids and anticoagulants in severe COVID-19 pneumonia</td>
<td>Alaa Eldien Thabet Hassan (Assiut, Egypt), Alaa Abdelmoniem, Mona Mohamed, Abdelhalim Elsherif, Soheir Kasim</td>
</tr>
<tr>
<td>PA913</td>
<td>The use of High Flow Nasal Oxigen (HFNO) and Non-invasive Ventilation (NIV) in COVID-19</td>
<td>Maria Cardone (Napoli (NA), Italy), ludovica capitelli, Francesco Squillante</td>
</tr>
</tbody>
</table>

**Pre-congress content**

**Session 117** 13:15 - 14:15

E-poster: Burden and epidemiology of COVID-19

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

Tag(s): COVID, Digital health

Chairs: Vanessa Garcia-Larsen (Baltimore, United States of America), Joan B Soriano (Madrid, Spain)

PA914 | The impact of Covid-19 on hospital length of stay and resources: an experience from a tertiary respiratory centre in the UK | Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Dalia Mudawi, Alaa Abdelgabar, Karl Heyes, Robert Niven, Nazia Chaudhuri, Ran Wang |

PA915 | Seroprevalence of anti SARS-CoV-2 antibodies in a random sample of inhabitants of Katowice Region, Poland | Grzegorz Brożek (Katowice, Poland), Jan Zejda, Małgorzata Kowalska, Kamil Barański, Angelina Kaleta-Pilarska, Artur Nowakowski |

PA916 | Data partitioning from the two waves of COVID-19 pandemic: is the landscape really evolving? A single institution experience. | Giulia Maria Stella (Pavia (PV), Italy), Pilode Davide, Federica Albicini, Erica Gini, Amelia Grosso, Angelo Guido Corsico |

PA917 | SARS-CoV-2 infections in people with PCD | Eva Sophie Lunde Pedersen (Bern, Switzerland), Myrofora Goutaki, Amanda Harris, Lucy Dixon, Michele Manion, Bernhard Rindlisbacher, Jane S Lucas, Claudia E Kuehni |

PA918 | COVID-19 infection in Severe Alpha 1-antitrypsin deficiency: looking for a rationale | Stefania Ottaviani (Pavia (PV), Italy), Ilaria Ferrarotti, Alice Maria Balderacchi, Valentina Barzon, Alessandra Corino, Annalisa De Silvestri, Davide Pilone, Francesca Mariani, Angelo Guido Corsico |

PA919 | Mortality in home mechanical ventilation users during the COVID-19 pandemic | Rebecca DCruz (London, United Kingdom), Neeraj Shah, Annastazia Learoyd, Oliver Elias, Mike Mackie, Nick Weston, Nicholas Hart, Georgios Kaltakas, Philip Marino, Hina Pattani, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Patrick Murphy |

PA920 | Risk factors for COVID-19 sickness absence in healthcare staff | Diana van der Plaat (London, United Kingdom), David Coggon, Paul Cullinan, Rhiannon Edge, Ira Madan, Rupert Muiry, Vaughan Parsons, Martie Van Tongeren |

PA921 | Alpha-1 antitrypsin deficiency severity and the risk of COVID-19 | Nuno Faria (Porto, Portugal), Maria Inês Costa, Joana Gomes, Maria Sucena |

PA922 | A study of infection latency and determination of quarantine period in hospital staff with Covid 19 | Jayalakshmi T.Kutty (Mumbai (Maharashtra), India), Bhumika Madhav, C G Prakash, Narendra Patil, Dipti Dhanwante, Dhanaji Revande |
Hydroxychloroquine as a primary prophylactic agent against SARS-CoV-2 infection
Pradeesh Sivapalan (Hellerup, Denmark), Peter Kamstrup, Jørgen Eklöf, Nils Hoyer, Charlotte Suppli Ulrik, Lars Pedersen, Therese S. Løkken, Zita Harboe, Uffe Bodgard, Rasmus Dahlin Bojesen, Kjell Erik Julius Håkansson, Casper Tidemand, Karin Armbrecht, Andrea Browatzki, Howraman Meyer, Christian Niels Meyer, Kristoffer Grundtvig Skaarup, Mats Christian Højbjerg Lassen, Jens D. Lundgren, Tor Biering-Sørensen, Jens-Ulrik Stæhr Jensen

Prolonged viral RNA shedding in patients with COVID-19 infection
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Marco Bongiovanni, Angelo De Laurentis, Stefano Carlo Zucchi, Umberto Zanini

Excess Mortality during Covid-19 pandemic in Istanbul
Elif Dagli (Istanbul, Turkey), Benan Musellim, Seval Kul, Pinar Ay, Cagla Uyanusa, Oya Itil, Hasan Bayram

Seroprevalence of anti-SARS-CoV-2 IgG antibody in hospitalized patients: Results of the first hospital-based serosurvey from India
Animesh Ray (Kolkata (West Bengal), India), Komal Singh, Gaurav Batra, Naveet Wig, Naval Vikram, Souvick Chattopadhyay, Farha Mehdi

COVID 19 in Health Professionals: Profile of 15540 Medical Care and Description of Positive Cases
Telma de Cassia dos Santos Nery (São Paulo (SP), Brazil), Camila Aquino Feijó, Eric Kiyoshi Mochizuki Hara, Flávia Fazoli Cunha Freitas Viana, Renilda Martins Prestes, Antonio Santos Barboza, Moacyr Vergara Godoy Moreira, Jefferson Freitas, Rafael Stelmach, Ubiratan Paula Santos

How the COVID19 pandemic changed the attitude versus seasonal flu vaccination among COPD patients in Serbia
Miroslav Illic (Sremmska Kamenica (Vojvodina), Republic of Serbia), Nevena Savić, Nensi Lalić, Kristina Veres, Jovan Javorac, Ivan Kopitović

Comparison of biopsychosocial and pulmonary short term sequelae between epidemic waves in critical COVID19 patients
Paola Carmona Arias (LLEIDA, Spain), Paola Carmona Arias, Sally Santisteve, Aida Monge, Anna Moncusí, Clara Gort, Ivan Benítez, David De Gonzalo, Gerard Torres, Ferran Barbe, Jessica Gonzalez

High Covid-19 mortality in a young population: Istanbul experience
Elif Dagli (Istanbul, Turkey), Nilufer Ayakc, Osman Elbek

A method of selecting most significant biochemical parameters in a given clinical setting in COVID-19
Rahulde Sarkar (London, United Kingdom), Swati Purohit Joshi, Abhisar Sinha, Hemant Mishra, Puneet Rijhwani, Purnendu Sekhar Das, Soumya Jana

Etiology and antimicrobial resistance of secondary bacterial infections in patients hospitalized with COVID-19 in Moscow city hospital
Konstantin Karnoukh (Moscow City, Russian Federation), Vladimir Drozdov, Dariya Savinseva, Natalia Lazareva

Assessment of the role of CT severity score in COVID-19 outcome prediction in a large Indian cohort
Rahulde Sarkar (London, United Kingdom), Swati Purohit Joshi, Abhisar Sinha, Hemant Mishra, Puneet Rijhwani, Purnendu Sekhar Das, Soumya Jana

Pre-congress content Session 118 13:15 - 14:15

E-poster: The different faces of sleep disturbances in respiratory diseases and beyond
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): General respiratory patient care, Pulmonary function testing, Physiology, Pulmonary rehabilitation, Imaging, Public health, Epidemiology

Chairs: Carolina Lombardi (Milano (MI), Italy), Renaud Tamisier (Grenoble, France)

Sleep related breathing disorder patterns in DPLD patients
Rahul Ghosh (Kolkata, India), Susmita Kundu

Sleep-related breathing disturbances in idiopathic pulmonary fibrosis
Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Lars Hagmeyer, Norbert Anduleit, Winfried Randerath

Association of risk of obstructive sleep apnea and asthma control among adult Filipino patients with asthma
Bernadette Meifel Joyce Madamba (Ilocos Norte, Philippines), Virginia delos Reyes
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA937</td>
<td>Asthma control in patients with asthma / obstructive sleep apnea overlap syndrome</td>
<td>Ferdaous Yangui (La Marsa, Tunisia), Ferdaous Yangui, Ferdaous Yangui, Héla Cherif, Mariem Triki, Bochra Karaborni, Mohamed Ridha Charfi</td>
</tr>
<tr>
<td>PA938</td>
<td>Sleep quality in adults with cystic fibrosis</td>
<td>Tatjana Jakovska-Maretti (Skopje, North Macedonia)</td>
</tr>
<tr>
<td>PA939</td>
<td>Retinal vascular tortuosity in obstructive sleep apnea-COPD overlap patients</td>
<td>Rabab El Wahsh (Shebin El Kom, Egypt), Maha Yousif, Asmaa Ibrahim</td>
</tr>
<tr>
<td>PA940</td>
<td>The correlation of sleep quality on symptoms and lung function in COPD patients at the Harum Melati Clinic, Pungsewu, Lampung Province, Indonesia.</td>
<td>Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Hetti Rusmini, Tusy Triawahyuni, Ari Nugarha Sukma</td>
</tr>
<tr>
<td>PA941</td>
<td>Predicting sleep disordered breathing acutely after stroke: comparing eight sleep questionnaires and a logistic regression model</td>
<td>Christian Horvath (Toronto, Canada), Martijn Dekkers, Vanessa Woerz, Simone Duss, Markus Schmidt, Anne-Kathrin Brill, Claudio Bassetti</td>
</tr>
<tr>
<td>PA942</td>
<td>Home NIV after an acute exacerbation of COPD: criteria and outcomes</td>
<td>Maria João Freitas Ferreira Araújo (Guimarães, Portugal), Diana Pimenta, Daniela Rodrigues, Marta Silva, Ana Luisa Vieira, Lurdes Ferreira</td>
</tr>
<tr>
<td>PA943</td>
<td>Brainstem strokes are associated with increased obstructive apnea index during sleep acutely after stroke</td>
<td>Irina Filchenko (Bern, Switzerland), Martijn Dekkers, Sebastien Baillieu, Andrea Seiler, Markus Schmidt, Corrado Bernasconi, Claudio Bassetti</td>
</tr>
<tr>
<td>PA944</td>
<td>The prevalence and risk factors of obstructive sleep apnea in patients with stroke in a tertiary care hospital in India</td>
<td>Rajagopal T. V. (Neyveli (Tamil Nadu), India), Devasahayam J Christopher, Barney Isaac, Ashwin Oliver, Vivek Mathew, Ajith Sivadasan</td>
</tr>
<tr>
<td>PA945</td>
<td>Prevalence of sleep apnea in patients with recurrent syncope of unknown cause, preliminary results of the SINCOSAHS study</td>
<td>Mª Jose Muñoz Martinez (Vigo (Pontedeveda), Spain), Enrique García Campo, María Dolores Corbacho Abellaíra, Teresa Martín Egaña, María Luisa Torres Durán, Ramón Antonio Tubio Pérez, Mar Mosteiro Añón, María Elena Santamaria López, Alberto Fernández Villar</td>
</tr>
<tr>
<td>PA946</td>
<td>Sleep pattern and cardiovascular disease: a big data study on gender impact</td>
<td>Elisa Morrone (gattico-Veruno (NO), Italy), Andrea Giordano, Massimo Pistono, Ugo Corrà, Alberto Braghiroli</td>
</tr>
<tr>
<td>PA947</td>
<td>Cardiovascular outcomes in patients with coronary artery disease and nonsleepy versus sleepy obstructive sleep apnoea phenotypes in the RICCADSA trial</td>
<td>Yeliz Çelik (İstanbul, Turkey), Christine Eulenburg, Erik Thunström, Yuksel Peker</td>
</tr>
<tr>
<td>PA948</td>
<td>Relationship between sleep quality and functionality in head and neck cancer survivors.</td>
<td>Janet Rodríguez Torres (Granada, Spain), Vanesa Jerviz-Guia, Natalia Muñoz-Vigueras, Esther Prados-Roman, Alejandro Heredia-Ciuró, Marie Carmen Valenza</td>
</tr>
<tr>
<td>PA949</td>
<td>Impact on quality of life and neck cancer survivors one year after receiving radiotherapy.</td>
<td>Natalia Muñoz Viguera (Granada, Spain), Vanessa Gabriela Jerviz Guia, Isabel Castillo Pérez, Paula Obeso Benítez, Javier Martín Nuñez, Marie Carmen Valenza</td>
</tr>
<tr>
<td>PA950</td>
<td>Prevalence of sleep disruption and sleep disorders in patients with Post-Polio Syndrome</td>
<td>Yunis Fazaldin (Southall, London, United Kingdom), Jeong Su Lee, Alexandra Curtis, Simon Shaw, Nicholas Hart, Georgios Kaltikas, Joerg Steier</td>
</tr>
<tr>
<td>PA951</td>
<td>Polysomnography findings of children with Neuromuscular Disease and the outcome following the start of Home Mechanical Ventilation.</td>
<td>Supriya Shinde (Bangalore, India), Ilin Kinimi</td>
</tr>
<tr>
<td>PA952</td>
<td>Clinical phenotypes and characteristics in patients with OSAS and nocturnal respiratory failure</td>
<td>Andrea Portacci (Taranto, Italy), Carla Santomasi, Valentina Di Lecca, Federica Barratta, Maria Luisa De Candia, Alessandro Palumbo, Silvano Dragonieri, Onofrio Resta, Giovanna Elisiana Caragnano</td>
</tr>
<tr>
<td>PA953</td>
<td>Late onset Pompe Disease: A rare cause of respiratory failure</td>
<td>Rajini Sudhir (Leicester (Leicestershire), United Kingdom), Richard Russell, Aziz Masruq</td>
</tr>
</tbody>
</table>
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Respiratory critical care

Method(s): General respiratory patient care, Epidemiology, Public health, Respiratory intensive care, Cell and molecular biology, Pulmonary function testing, Physiology

Tag(s): COVID, Digital health

Chairs: Sebastian L. Johnston (London, United Kingdom), Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

PA954 Research priorities for airway diseases in "long COVID"
Omer Elneima (Leicester, United Kingdom), Davies Adeloye, Luke Daines, Krisnah Poinasamy, Sam Walker, Chris Brightling, Salman Siddiqui, Petr Novotny, John R Hurst, Jennifer K Quint, James Chalmers, Paul Pfeffer, Tom M Drake, Igor Rudan, Liam G Heaney, Anthony De Soyza, Aziz Sheikh

PA955 Diffusion ability of the lungs in the assessment of respiratory function in patients who have undergone the new coronavirus infection (COVID-19)
Elena Filatova (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Igor Leshchenko, Sergey Skornyakov, Igor Medvinskii, Natalia Esaulova, Arthur Polozov

PA956 The effectiveness of telemedicine methods in the follow-up of asthma in the Covid-19 pandemic process
Saban Mellih Simsek (Manisa, Turkey), Deniz Kizilirmak, Yavuz Havlucu

PA957 Cough monitoring during the covid-19 pandemic
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Kimberley Holt, Rachel Dockry, Hilary Thornton, Frank Keane, Kevin Mcguinness

PA958 Impact of COVID-19 on COPD and Asthma admissions and the pandemic from a patient's perspective
Dominic Sykes (Garforth, United Kingdom), Shoaib Faruqi, Luke Holdsworth, Michael G Crooks

PA959 Clinical characteristics and outcomes in hospitalized COVID-19 patients with COPD
Muzaffer Onur Turan (Izmir, Turkey), Burcu Arpinar Yiğitbas, Pakize Ayşe Turan, Arzu Mirici

PA960 Does impact of COVID-19 pandemic reduce A&E attendances, hospital inpatient stays and re-admissions with acute exacerbation of COPD?
Rajesh Kumar Yadavilli (Sale, United Kingdom), Kamal Ibrahim, Mohammed Ibrahim, Laura-Beth Thompson, Dorota Scott

PA961 Eosinopenia in COPD patients with severe acute respiratory virus 2 (Sars-CoV-2) infection as a potential fatal outcome predictor
Jane-Erica Paluero (Värnamo, Sweden), Lemar Tokhi, Mihovil Roglic, Marina Labor

PA962 COVID-19 prevalence, risk factors and outcomes in COPD
Umberto Semenzato (PADOVA, Italy), Matteo Bonato, Erica Bazzan, Micaela Romagnoli, Elisabetta Cocconcelli, Mariaenrica Tiné, Graziella Turato, Simonetta Baraldo, Manuel G. Cosio, Marina Saetta

PA963 Prevalence and characteristics of COPD patients admitted for COVID-19 during the first wave.
Walther Ivan Giron Matute (Madrid, Spain), IRENE MILAGROS DOMINGUEZ ZABALETA, Zichen Ji, Beatriz Recio Moreno, Christian Reynaldo Castro Riera, Alicia Cerezo Lajas, Luis Puente Maestu, Javier De Miguel-Diez

PA964 Characterization of COPD admissions during the first COVID-19 outbreak
Hanaa Shafiek (Alexandria, Egypt), Borja García Cosío Piqueras, Nuria Toledo-Pons, Amanda Iglesias, Margalida Barcelo, Cristina Represas-Represas, Lorena Comeche, Pablo Catalán, Alberto Fernández-Villar, Jose Luis Lopez-Campos, Jose Echave-Sustarta, Juan Jose Soler-Cataluña

PA965 Effect of quarantine ?n hospital admissions for asthma/COPD exacerbations: association with air pollution
Ioanna Sigala (Athens, Greece), Timos Giannakas, Vasileios Giannakoulis, Eftthimios Zervas, Aikaterini Brinia, Niki Gianniou, Efrosyni Dima, Andreas Asimakos, Paraskevi Katsaounou

PA966 Evolution and prognosis of patients with Asthma or COPD hospitalized by COVID-19 infection. Differences between them and the patients without airway pathology.
Blanca Urrutia Royo (Barcelona, Spain), Carlos Martinez Rivera, Toni Zapata, Ignasi Garcia Olivé, Karina Portillo, Alicia Marin Tapia, Jorge Abad Capa, Antoni Rosell Gratacós

suraj rajput (ebbsfleet (Kent), United Kingdom), Sandip Banerjee, Samantha Perryman, Rahuldeb Sarkar
The risk factors in asthma patients for COVID19 infection
Temenuzhka Ignatova-Danova (Roussé, Bulgaria), Iliya Krachunov, Nikolay Kyuchukov, Zlatina Ivanova, Pavlina Nikolova, Plamen Pavlov, Tsanya Popova, Yavor Ivanov

Small airway disease in symptomatic convalescents after SARS-CoV-2 infection
Frederik Trinkmann (Heidelberg, Germany), Alexandra Reif, Michael M. Müller, Franziska C. Trudzinski, Nicolas Kahn, Felix J.F. Herth

Asthma management and control during COVID-19 pandemic
Houda Snène (Tunis, Tunisia), Khalil Zayen, Hana Blibeche, Wafa Fenina, Israa El Wadhane, Mariem Maalej, Aymen Jebali, Jalilouf Daghtous, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Anxio-depressive disorders in asthma patients during the COVID-19 pandemic
Houda Snène (Tunis, Tunisia), Khalil Zayen, Hana Blibeche, Mariem Maalej, Aymen Jebali, Wafa Fenina, Israa El Wadhane, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Lung function indices measured by Forced Oscillation Test in post covid period - Looking beyond lung fibrosis
Nagesh Dhadge (Pune (Maharashtra), India), Kameshwar Rao, nitin Vanjare

Reduction in hospital admissions for Acute Exacerbations of COPD during COVID-19 pandemic
Michelle Brennan (Galway, Ireland), Alicje Straszewicz, Dominic Doyle, Ena Jordon, Jack Rutherford, Helen Mulryan, Nicki Byrne, Anthony O ‘Regan, Melissa Mcdonnell, Michael Harrison, Robert Rutherford

Pre-congress content Session 120 13:15 - 14:15
E-poster: Patient-reported outcomes in respiratory disease
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Airway diseases
Method(s): General respiratory patient care Pulmonary rehabilitation Pulmonary function testing Epidemiology Public health
Chairs: Lisa Jane Brighton (London, United Kingdom), Eleonora Volpato (Milano (MI), Italy)

Pre-congress content Session 121 13:15 - 14:15
E-poster: Respiratory physiology and breathing during sleep in health and sickness
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Sleep and breathing disorders Respiratory critical care
Method(s): Physiology Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Epidemiology Palliative care Respiratory intensive care Surgery
Chairs: Stijn Verhulst (Antwerpen, Belgium), Florian Singer (Bern, Switzerland)

Late Breaking Abstract - Response of the paediatric Long Term Ventilation (LTV) department of Cambridge University Hospital (CUH) during the Covid-19 pandemic: challenges and lessons.
Lucy Carson (Cambridge, United Kingdom), Donna Mcheshane, Doxa Kotzia

Assessment of Nocturnal Hypoventilation by Different Methods and Definitions in Children with Neuromuscular Disease: Oxycapnography and Blood Gas Analysis
Yetkin Ayhan (Istanbul, Turkey), Zeynep Reyhan Onay, Sinem Can Oksay, Deniz Mavi, Gülay Bilgin, Elif Karatoprak, Sanite Girit

Correction of measurement error in a commercial multiple-breath washout device
Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreicher, Bettina Frauchiger, Kathryn Ramsey, Philipp Latzin
Can the Sleep Clinical Record diagnose moderate-to-severe Obstructive Sleep Apnea Syndrome in children?
Emmanouil Alexopoulos (Larisa, Greece), Marianna Mylona, Charalampos Skoulakis, George Vavougios, Konstantinos Gourgoulianis, Athanasios Kaditis

Can lung function tests help identify functional phenotypes in children with asthma?
Sonila Borici (Tirana, Albania), Anxhela Gurakuqi, Ilir Akshija, Luljeta Serbo

Altered exercise capacity in children with type 1 diabetes
Dejan Radovanovic (Milano (MI), Italy), Marina Saad, Stefano Pini, Elisa Franceschi, Chiara Di Simone, Luca Perotto, Maurizio Rizzi, Pierachille Santus

Sleep Disordered Breathing from Preschool to early Adult Age and its Neurocognitive Complications.
Emmanouil Alexopoulos (Larisa, Greece), Kyriaki Astara, Dimitra Siachpazidou, George Vavougios, Dimitrios Ragias, Konstantina Vatzia, Georgia Rapti, Konstantinos Gourgoulianis, Georgia Xiromerisiou

Parental perceptions of home cardio respiratory sleep studies for children during Covid-19 pandemic
Omendra Narayan (Manchester (Greater Manchester), United Kingdom), Tabassum Amina Ismail, Anna Hughes, Jake Erwin, Sarah Li, Matthew Atkinson, Stuart Wilkinson

Relationships between asthma, obesity and OSAS severity in children
Nicole Beydon (Paris, France), Audrey Cesaire, Guillaume Mulier, Priscilla Boizeau

CO2 measurement in children’s polysomnography: is it worth it?
Rosário Ferreira (Lisbon, Portugal), Ângela Drago, Ângela Martins, Ana M Silva, Lia Oliveira

Respiratory inductance plethysmography reference data in North-western Italian 6-years child population
Ileana Stella (Torino, Italy), Anna Folino, Lorenzo Appendini, Lorenzo Richiardi, Elisabetta Bignamini

Frenulectomy in children with sleep disordered breathing and short lingual frenulum: a pilot study
Melania Evangelisti (Roma (RM), Italy), Martina Forlani, Mario Barreto, Marilisa Montesano, Maria Pia Villa

How is the follow-up of tracheotomized children in a tertiary hospital in Brazil?
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Ana Luisa Fontana Garcia, Elizandra De De Padua Ranzani, Camila De Castro Correa

Obstructive sleep disorders in Down syndrome’s children with and without lower airway anomalies
Mariska De Lausnay (Melle, Belgium), Stijn Verhulst, Kim Van Hoorenbeeck, An Boudewyns

Validation of the child effort perception scale in a maximum potential exercise test
Tayna Castilho (Florianópolis, Brazil), Juliana Cardoso, Renata Wamosy, Camila Schivinski

Characterization of the spontaneous breathing variability in healthy children at rest: a prospective observational study
Andre dos Santos Rocha (Genève, Switzerland), Adam Balogh, Isabelle Pichon, Walid Habre

The reliability of polygraphy for the diagnosis of sleep disordered breathing in children
Tugba Ramasli Gursoy (ANKARA, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Pelin Asfuoglu, Hakan Ercelebi, Ebru Arhan, Tansu Ulukavak Ciftci, Oguz Kokturk, Isil Irem Budakoglu

Pre-congress content

Session 122 13:15 - 14:15

E-poster: Primary care organisation and epidemiology

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Respiratory critical care, Sleep and breathing disorders, Thoracic oncology, Interstitial lung diseases, Pulmonary vascular diseases

Method(s): General respiratory patient care, Public health, Epidemiology, Pulmonary rehabilitation, Pulmonary function testing

Chairs: Ee Ming Khoo (Kuala Lumpur, Malaysia), Esther I. Metting (Groningen, Netherlands)
Qualitative phenomenological study informs the development of educational intervention for behaviour change to reduce morbidity and mortality in adults with chronic lung disease in rural India
Biswajit Paul (Vellore, India), Rita Isaac, Hemlata R, Paul Jebraj, Muthathal Subramanian, Deepa Das, John Norrie, David Weller, Liz Grant

Collaborative care positively inverts the proportion of severe cases in the pulmonology clinic in the public health system: a Brazilian experience
Mariah Taube (Taubaté, Brazil), Denise Cotrim, Mariana Freire, William Salibe Filho, Sonia Martins, Rafael Stelmach

Does introduction of a home oxygen service lead to healthcare cost savings?
Charlotte Francis (Cambridge, United Kingdom), Claire Davey, Richa Singh, Jane Simpson

Barriers and facilitators to asthma care for Malaysian Hajj pilgrims: a qualitative study
Rizawati Ramli (LEMBAH PANTAL, Malaysia), Ec Ming Khoo, Su May Liew, Nik Sherina Haidi Hanafi, Norita Hussein, Ping Yein Lee, Szazlina Shariff Ghazali, Ai Theng Cheong, Ahmad Ihsan Abu Bakar, Azah Abdul Samad, Suhazeli Abdullah, Hilary Pinnock, Sheikh Aziz

Primary care management of asthma –findings from the Klang Asthma Cohort Study in Malaysia
Norita Hussein (Kuala Lumpur, Malaysia), Norita Hussein, Su May Liew, Nik Sherina Hanafi, Ec Ming Khoo, Hilary Pinnock, Yong Kek Pang, Asiah Kassim, Ping Yein Lee, Shariff Szazlina, Ai Teng Cheong, Karuthan Chinna, Rizawati Ramli, Izan Iskah, Bee Kiu Ho, Selbiah Mohamad Isa, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Harzana Harun, Ahmad Ihsan Abu Bakar, Azainorsuzila Mohd Mohd Ahad, Richard Parker, Aziz Sheikh

Assessment of asthma control and associated risk factors: findings from the Klang Asthma Cohort Study in Malaysia
Norita Hussein (Kuala Lumpur, Malaysia), Norita Hussein, Rizawati Ramli, Izan Iskah, Bee Kiu Ho, Selbiah Mohamad Isa, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Harzana Harun, Su May Liew, Nik Sherina Hanafi, Ahmad Ihsan Abu Bakar, Ping Yein Lee, Ai Theng Cheong, Szazlina Shariff Ghazali, Azainorsuzila Mohd Ahad, Yong Kek Pang, Asiah Kassim, Chiu-Wan Ng, Karuthan Chinna, Parker Richard, Ec Ming Khoo, Hilary Pinnock, Aziz Sheikh

Meeting the challenges of asthma management guidelines in public primary care clinics in Malaysia: a qualitative study
Ai Theng Cheong (Serdang, Malaysia), Ping Yein Lee, Shariff Ghazali Szazlina, Han Salim, Norita Hussein, Rizawati Ramli, Hilary Pinnock, Su May Liew, Nik Sherina Hanafi, Ahmad Ihsan Abu Bakar, Azainorsuzila Mohd Ahad, Yong Kek Pang, Karuthan Chinna, Ec Ming Khoo

Remote asthma reviews: Developing practice resources for the IMP2ART trial.
Brigitte Delaney (Sheffield, United Kingdom), Atena Barat, S.J.C. Taylor, Viv Marsh, Kirstie Mcclatchey, Emma Kinley, Hilary Pinnock

Exploring the need for, and design of, a COPD lung health service in China: A Mixed Method Study from the Breathe Well programme
Hui Pang (Beijing, China), Zihan Pan, Rachel Adams, Eleanor Duncan, Chunhua Chi, Xia Kong, Andrew Dickens, Alexandra Enocson, Peymane Adab, Kar Keung Cheng, Nicola Gale, Rachel Jordan

Prescribing patterns of inhaled corticosteroids in asthma amongst primary care physicians in Singapore
Wei Xiang Ang (Singapore, Singapore), Wen Di Lee, Si Yuan Chew, Ying Hao, Jun Tian Wu, Rehena Sultana, Andrew Fang, Mariko Koh, David Matchar

Behaviour change in chronic respiratory disease patients through health care worker delivered theory of planned behaviour-based educational intervention: results from a pilot feasibility study
BISWAJT PAUL (Vellore, India), Rita Isaac, Deepa Das, Thenmozhi Mani, Malvika Babu, John Norrie, Liz Grant, David Weller

Participation in scheduled asthma follow-up contacts and adherence to treatment during 12-year follow-up
Jaana Takala (Seinajoki, Finland), Iida Vähätalo, Leena Tuomisto, Onni Niemelä, Pinja Ilmarinen, Hannu Kankaanranta

Socioeconomic predictors of specialist referral for possible severe asthma in a public healthcare setting
Kjell Erik Julius Håkansson (København N, Denmark), Vibeka Backer, Charlotte Suppli Ulrik

Nomogram for patients with exacerbation in the general practitioners based Swiss chronic obstructive pulmonary disease cohort
Nebal Abu Hussein (Basel, Switzerland), Stéphanie Giezendanner, Pascal Urwyler, Pierre-Olivier Bridevaux, Prashant N. Chhajed, Christophe Von Garnier, Thomas Geiser, Ladina Joos Zellweger, Malcolm Kohler, Sabrina Maier, David Miedinger, Robert Thurnheer, Michael Tamm, Joerg D. Leuppi

The Alonnisos Study: Correlation of Chronic Obstructive Pulmonary Disease risk with demographic, habitual and dietary factors in the general population of Alonnisos island
Petros Kassas (Larissa, Greece), Petros Kassas, Evdoxia Gogou, Charalampos Varsamas, Konstantinos Vogiatzidis, Aggeliki Psathia, Maria Pinaka, Dimitra Stachapizidou, Alexandra Sistou, Eletherios Papazoglou, Despoina Kalouzi, Konstantina Vatzia, Kirkaki Astara, Nikolaos Tsiouvakas, Sotirios Zarogiannis, Konstantinos Gourgoulianis
Healthcare costs and resource use in patients with chronic obstructive pulmonary disease (COPD) in Ontario, Canada
Christina Qian (VANCOUVER, Canada), Karissa Johnston, Mena Soliman, Erika Penz, Stephen Noorduyn

Projections of 10-year mortality in patients with COPD in the UK using the CHOPIN policy model
Volker Foos (Düren, Germany), Phil Mcewan, Ulf Holmgren, Jonathan Marshall, Hana Müllerová, Enrico De Nigris

The association between lung function in adults and the socioeconomic profile in a long-term follow-up
Lene Maria Ørts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Anders Helles Carlsen, Annelli Sandbæk, Anders Lokke

COPD DIAGNOSIS: DIFFERENCES ACCORDING GENDER
Mónica Marques Grañño (Montemor-O-Novo, Portugal), Filipa Todo-Bom, Jorge Cabral, Susana Clemente, João Valença, Ana Lutras, Teresa Pequito, Marco Pereira, Sofia Furtado

Describing characteristics of a primary care COPD population receiving Integrated Disease Management and the durability of quality of life outcomes over time.
Jennifer DCruz (London, Canada), Anna Hussey, Madonna Ferrone, Christopher Licskai

Pre-congress content Session 123 13:15 - 14:15
E-poster: Tuberculosis, COVID-19 and other comorbidities
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Tag(s): COVID

Chairs: Graham H. Bothamley (London, United Kingdom), Irina Kontsevaya (Borstel, Germany)

Impact of COVID-19 and lockdown on TB care
Larisa Rusakova (Moskva, Russian Federation), Sergey Sterlikov, Daria Kucheryavyaya

Species-specific Interferon-Gamma Release Assay for the diagnosis of Mycobacterium abscessus complex infection in Cystic Fibrosis patients.
Mathis Stemdor (Essen, Germany), Florian Stehling, Margarete Olivier, Jan Kehrmann, Margo Diricks, Florian Maurer, Peter Horn, Svenja Straßburg, Matthias Welsner, Sivagurunathan Sutharsan, Monika Lindemann

Pulmonary tuberculosis control: does COVID-19 have any effect?
Ana Rita Gigante (Vila Nova de Gaia, Portugal), Margarida Sousa, Ana Aguiar, Marta Pinto, Rita Gaio, Raquel Duarte

Co-infection of pulmonary tuberculosis and Covid-19
Zhanna Laushkina (Novosibirsk, Russian Federation)

Assessment of COVID-19 impact on the course of pulmonary tuberculosis
Ekaterina Shishkina (Moscow, Russian Federation), Leila Ergeshova, Anna Egorova, Natalia Evseeva, Tatiana Smirnova, Natalia Karpina

Impact of COVID-19 on TB management in an East London Hospital
Ananna Rahman (Essex, United Kingdom), Darryl Braier-Lorimer, Foley Sinead, Simon Tiberi, Ryan Khaw, Kunst Heinke

The impact of SARS-CoV-2 pandemic on tuberculosis – the experience of Iasi County, Romania
Ionela-Alina Grosu-Creangă (Iasi (Iasi), Romania), Adriana Sorete Arbore

Tuberculosis/SARS-CoV-2 Co-infection: a Case Series
Miria Silva (Maceió (AL), Brazil), Liana Macedo-Farsoun, Brivaldo Markman-Filho, Marcio Lima-Filho, Karina Veiga, Maruza Costa, Maria-Paula Athayde, Carlos Luna

Frequency of chronic pulmonary aspergillosis in patients treated for pulmonary tuberculosis at a tertiary care hospital in Karachi, Pakistan.
Syed Muhammad Zubair (karachi, Pakistan), Kauser Jabeen, Muhammad Irfan

Screening for tuberculosis with COVID-19 infection in Georgia.
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Marika Eristavi, Marika Shurgaia, Lali Mikiashvili

The impact of COVID-19 sanitary measures on tuberculosis outbreaks
Diogo Miguel Monteiro Canhoto (Coimbra, Portugal), Bárbara Ramos, António Jorge Ferreira, Paulo Cravo Roxo
COVID19 coinfection exacerbates lung inflammation in TB patients.
Galina Shepelkova (Moscow, Russian Federation), Vladimir Evstifeev, Ruslan Tarasov, Vilayat Aliev, Mamed Bagirov, Yurii Berezovskiy, Maria Isaeva, Vladimir Yeremeev

Adverse events in the treatment of patients with pulmonary tuberculosis combined with diabetes mellitus and without it.
Oksana Komissarova (Moscow, Russian Federation), Rizvan Abdullaev, Svetlana Aleshina

A COMPARATIVE STUDY ON EFFECTS OF SUBSTANCE DEPENDENCE ON PULMONARY TUBERCULOSIS PATIENTS
Mainak Mukherjee (Hooghly, India), Susmita Kundu, Ridvus Basu

The influence of SARS-CoV-2 co-infection and active tuberculosis on the severity of the disease course and mortality.
Grzegorz Przybylski (Osielsko, Poland), Anna Kozanecka, Marta Pilaczynska-Cemel

Characteristics of tuberculosis patients co-infected with COVID-19
Evgeny Belilovskiy (Moscow, Russian Federation), Elena Bogorodskaya, Sergey Borisov, Elena Sumarokova, Olga Chizhova

Taking care of TB in times of COVID-19 Global Pandemic
Julia Amaranta García Fuertes (Vitoria-Gasteiz, Spain), Naia García Martin, Leiria, Javier Poyo Molina, Miguel Angel Sanchez De Toro, Iaritzu Etorza Sagasta, Clara Ortega Michel, Laura Tomás López, Maria Begoña Lahidalga Múgica, Jose Joaquín Portu Zapirain, Silvia Hernaez Crespo, Andrés Canut Blasco, José Luis Lobo Beristain

Particularities of pulmonary tuberculosis during the COVID-19 pandemic
Emma Benjemia (Tunis, Tunisia), Khaoula Hemissi, Hatif Zaibi, Maram Mosbeh, Asma Allouch, Khadija Euchi, Jihen Ben Ammar, Hichem Aouina

Burden of co-morbid conditions in TB patients attending a tertiary care hospital in India
Devashayam Jesudas Christopher (Vellore (Tamil Nadu), India), Barney Isaac, Aranthathu Arjun, Deepa Shankar, Balamugesh Thangakumam

Mesodiencephalic modulation in the treatment of XDR TB patients with concomitant type II diabetes mellitus
Anzhela Polyakova (Moscow, Russian Federation), Marina Tihonova, Vladimir Romanov, Alexey Tihonov, Natalya Chernyh

Pre-congress content  Session 124  13:15 - 14:15
E-poster: Challenges and advances in the diagnosis and clinical management of tuberculosis
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Thoracic oncology

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

Chairs: Margareth Dalcolmo (São Paulo, Brazil), Cristina Calarasu (Craiova (Dolj), Romania)

Provisional results of the active TB detection using mobile X-ray systems in Iasi County, Romania
Mihaela V. Archip (Iasi (Iasi), Romania), Maria Panescu, Adelina Atitei, Adriana Sorete Arbore

Evaluation of serial interferon-gamma release assay testing in lung cancer patients treated with immune checkpoint inhibitors
Kohei Fujita (Kyoto, Japan), Takuma Imakita, Yuki Yamamoto, Osamu Kanai, Misato Okamura, Koichi Nakatani, Tadashi Mio

Association of hyponatremia with increased mortality in tuberculosis
Christina Bal (Wien, Austria), Daniela Gompelmann, Michael Krebs, Lukasz Antoniewicz, Claudia Guttmann, Christopher Milacek, Antje Lehmann, Maximilian Robert Gysan, Peter Wolf, Maiaa Jentus, Irene Steiner, Marco Idzko

Risk of Tuberculosis reactivation during treatment with non TNFi/Biologics
Brit Haecker (Berlin, Germany), Tom Schaeberg, Ralf Otto-Knapp, Albert Nienhaus, Christian Kneitz, Mario Fabri, Andreas Krause, Ulf Mrowietz, Torsten Bauer, Roland Diel

Prevalence and diagnostic validity of chest tomography findings in patients with suspected active pulmonary tuberculosis
Angela Maria Giraldo Montoya (Pereira, Colombia), Giovani García Castro, Juan Jose Gutierrez Paternina
| PA1041 | Phenotypic resistance of M. tuberculosis to bedaquilin (BDQ) and linezolid (LZD) | Natalya Eremeeva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Umpeleva, Diana Vakhrusheva |
| PA1042 | Management of ocular tuberculosis (OTB): The role of CT and Positron Emission Tomography (PET) imaging | Kavina Manalan (London, United Kingdom), Ilaria Testi, Bhavini Dixit, Yorissa Payadachee, Charanjit Sethi, Laura Martin, Georgina Russell, Peter Addison, Carlos Pavesio, Harry Petrushkin, Rashmi Akshikar, Onn Min Kon |
| PA1043 | The comparative assessment of microbiological examination of radial EBUS specimens vs conventional bronchoscopy in the diagnosis of pulmonary TB. | Irina Shabalina (Moscow, Russian Federation), Ilya Sivokozov, Yana Chesalina, Elena Larionova, Tatyana Smirnova, Svetlana Shishova, Natalya Karpina, Atadzan Ergeshov |
| PA1044 | Clinicoradiological and bronchoscopic predictors of microbiological yield in sputum smear negative tuberculosis in Pakistan | Tayymnia Ejaz (Islamabad, Pakistan), Mahmood Malik, Jamal Ahmed, Rizwan Azam, Yousaf Jamal, Sheema Saadia |
| PA1045 | Comparative efficacy of BAL versus bronchial washing in smear-negative pulmonary TB | Ilya Sivokozov (Moscow, Russian Federation), Yana Chesalina, Dmitry Dedushkin, Elena Larionova, Anzhela Polyakova, Natalya Chemikh |
| PA1046 | Rediability of the evaluation of the results of computed tomography studies in disseminated pulmonary tuberculosis | Екатерина Сметанина (Barnaul, Russian Federation), Anna Mordik, Aleksandr Smetanin, Sergey Leonov |
| PA1047 | Early manifestations of vascular lesions of the retina in common forms of TB in the late stages of HIV | Sergey Skornyakov (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Elena Burylova, Elena Sabadash, Igor Medvinskyi, Alexey Demin, Elvira Telicina |
| PA1048 | Effectiveness of inhaled hypertonic saline application for sputum induction to improve Mycobacterium tuberculosis identification in patients with pulmonary tuberculosis | Tatiana Butova (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gumeniuk, Olena Raznatovska, Anton Tkachenko, Olena Boryssova, Dmytro Butov |
| PA1049 | Ocular tuberculosis – a case series | Carlos Lopes Figueiredo (Lisboa, Portugal), Mariana Silva, André Fabiano, Dionísio Maia, Joana Carvalho, Susana Carreira, Teresã Mourato, Filomena Nogueira, António Miguel, João Cardoso, Conceição Gomes |
| PA1050 | Simultaneous intraoperative correction of mediastinal pulmonary hernia in transsternal occlusion of the main-stem bronchus inpatients with advanced complicated destructive pulmonary tuberculosis | Ruslan Tarasov (Moscow, Russian Federation), Elena Krasnikova, Vilayat Aliiev, Lidia Popova, Mamed Bagirov |
| PA1051 | Dynamics of capillary blood flow in the lungs after extrapleural silicone plombage in patients with advanced fibrocavernous pulmonary tuberculosis | Elena Krasnikova (Moscow, Russian Federation), Anatoly Sigaev, Mamed Bagirov, Rasul Amansahedov, Vilayat Aliiev |
| PA1052 | Adverse effects analysis results during anti-TB treatment among hemodialysis patients | Olga Gordeeva (Moscow, Russian Federation), Natalya Karpina, Sofya Andreevskaya, Elena Larionova |
| PA1053 | Clinical and evolutif characteristics of pulmonary tuberculosis in elderly patients | Emma Benjemia (Tunis, Tunisia), Khaoûla Hemissi, Haïfa Zaïbi, Asma Allouch, Khadija Euchi, Jihen Ben Ammar, Hichem Aouina |
| PA1054 | Late Breaking Abstract - Therapeutic drug monitoring in a patient with very advanced XDR-TB | Niklas Köhler (Lübeck, Germany), Rob Aarnoutse, Pia Abel Zur Wiesch, Sönke Andres, Robert A. Bonomo, Eva Choong, Fabrizio Clarelli, Laurent Decosterd, Andrew Dinardo, Hans-Peter Grobbel, Jan Heyckendorf, Doris Hillemann, Harald Hoffmann, Barbara Kalsdorf, Hande Karaköse, Wiebke Knaack, Christina König, Antal Martinez, Florian Maurer, Matthias Merker, Stefan Niemann, Markus Nowak, Charles A. Peloquin, Patricia Sanchez Carballo, Dagmar Schaub, Thomas Schön, Dominik Schwudke, Marga Teulen, Nick Verougstraete, Alain Verougstraete, Franziska Waldow, Jim Werngren, Sebastian Georg Wicha, Christoph Lange |

Pre-congress content

**Session 125**

**E-poster: Lung function evaluation and assessment of airway diseases**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** Physiology Imaging Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Public health
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1055</td>
<td>Accuracy for DLco impairment through ventilatory efficiency indices in smokers without COPD.</td>
<td>Paulo Müller (Camp Grande (MS), Brazil), Gerson Orro, Gisele Barbosa, Erlandson Saraiva</td>
</tr>
<tr>
<td>PA1056</td>
<td>The COPD Assessment Test and the modified Medical Research Council scale are not equivalent when related to the maximal exercise capacity in COPD patients.</td>
<td>Annalisa Frizzelli (Parma, Italy), Annalisa Frizzelli, Roberta Pisi, Marina Aiello, Luigino Calzetta, Panagiota Tzani, Laura Marchi, Giuseppina Bertorelli, Alfredo Chetta</td>
</tr>
<tr>
<td>PA1057</td>
<td>Aerobic and breathing exercises on clinical control in subjects with asthma: a RCT</td>
<td>Fabiana Kim (São Paulo, Brazil), Jaqueline Rocha, Adriana Lunardi, Cibele Marques Da Silva, Andrey Wirgues, Patricia Freitas, Denielli Bós, Rafael Stelmach, Alberto Cukier, Celso Carvalho</td>
</tr>
<tr>
<td>PA1058</td>
<td>Daytime physical activity and sleep quality as related to patient-reported and physiological outcomes following severe COPD exacerbation</td>
<td>Rebecca D'Cruz (London, United Kingdom), Eui-Sik Suh, Georgios Kaltsakas, Rita Priori, Neeraj Shah, Amy Dewar, Abdel Douiri, Nicholas Hart, Patrick Murphy</td>
</tr>
<tr>
<td>PA1059</td>
<td>Predictors of changes in 6-min walking distance following pulmonary rehabilitation in COPD patients: a retrospective cohort analysis</td>
<td>Yara Al Chikhanie (Dieulefit, France), Sébastien Bailly, Daniel Veale, Frédéric Hérenget, Samuel Verges</td>
</tr>
<tr>
<td>PA1060</td>
<td>Late Breaking Abstract - Chronic coronary artery disease and decline of lung function as predictors of mortality and exacerbation risk in stable COPD: Results from COSYCONET</td>
<td>Peter Alter (Marburg, Germany), Tanja Lücke, Henrik Watz, Stefan Andreas, Kathrin Kahnert, Franziska Trudzinski, Tim Speicher, Sandra Söhler, Robert Bals, Tobias Welte, Klaus Rabe, Jürgen Vestbo, Emil Wouters, Claus Vogelmeier, Rudolf Jörres</td>
</tr>
<tr>
<td>PA1061</td>
<td>Comparable Ventilatory Inefficiency During Exercise Performance in COPD and CHF subjects.</td>
<td>Paulo Müller (Campo Grande (MS), Brazil), Gerson Orro, Gisele Barbosa, Erlandson Saraiva</td>
</tr>
<tr>
<td>PA1062</td>
<td>Lactate dehydrogenase isoenzymes in patients with acute exacerbation of chronic obstructive pulmonary disease: An exploratory cross-sectional study</td>
<td>Vlasios Skopas (Kifissia attikis, Greece), Dimitrios Papadopoulos, Nikolaos Trakas, Eleni Papaeftathiou, Charalampos Koufopoulos, Demosthenes Makris, Zoe Daniil, Konstantinos Gourgoulianis</td>
</tr>
<tr>
<td>PA1063</td>
<td>Quality of life in COPD - does hyperinflation matter?</td>
<td>Inês Tavares Ladeira (Vila Nova de Gaia, Portugal), Pedro Oliveira, Liliana Campos, Ricardo Lima, Miguel Guimarães</td>
</tr>
<tr>
<td>PA1064</td>
<td>The relationship between respiratory muscle dysfunction and serum vitamin D level in COPD patients</td>
<td>Angelina Suleymananova (Moscow, Russian Federation), Irina Baranova</td>
</tr>
<tr>
<td>PA1065</td>
<td>High prevalence of COPD symptoms in the Tunisian population contrasting with low awareness of the disease</td>
<td>Lakhdar Nadja (Sousse, Tunisia), Landoloi Mounir, Myriam Denguizli</td>
</tr>
<tr>
<td>PA1066</td>
<td>Brain-heart autonomic axis function across different clinical status and severity of COPD</td>
<td>Renata Mendes (Sao Carlos (SP), Brazil), Viviane Castello-Simões, Erika Zavagliia Kabbach, Nathany Souza Schafauer, Patricia Faria Camargo, Rodrigo Polaquinim Simões, Alessandro Domingues Heubel, Mariana Brasil Da Cunha Martinho Pereira1, Nicole Marques Sgarbosa, Audrey Borghi-Silva</td>
</tr>
<tr>
<td>PA1067</td>
<td>The chronic effects of narghile-use on males’ cardiovascular response during exercise: a systematic review</td>
<td>Faten CHAIEB (Sousse, Tunisia), Helmi Ben Saad</td>
</tr>
<tr>
<td>PA1068</td>
<td>Correlation of six minute walk test with spirometry in COPD patients</td>
<td>Prajwal Sarkar (Kolkata, India), Atin Dey, Somnath Bhattacharya, Rohini Chakrabarti</td>
</tr>
<tr>
<td>PA1069</td>
<td>Ultrasound diaphragm activity in cystic fibrosis: a normative study</td>
<td>Fanny Gabrys-Forget (Montreal, Canada), Anne-Catherine Maynard-Paquette, Aileen Kharat, Bruno-Pierre Dubé</td>
</tr>
<tr>
<td>PA1070</td>
<td>Impact of moderate to late preterm birth on 5 year lung preterm birth in a South African birth cohort</td>
<td>Shaakira Chaya (Mokopane, South Africa), Rae Macginty, Carvern Jacobs, Zoltán Hantos, Shannon Simpson, Graham Hall, Heather Zar, Diane Gray</td>
</tr>
</tbody>
</table>
Genetic mutations and ciliary ultrastructure as possible determinants of lung function evolution in primary ciliary dyskinesia: a 40-year observational study
Mathias G. Holgersen (Copenhagen, Denmark), Mathias Holgersen, June K. Marthin, Johanna Raidt, Heymut Omran, Kim G. Nielsen

Late Breaking Abstract - Comparison of Portable Oxygen Concentrators using a COPD Patient Simulation Model
Rachel Culbreth (Atlanta, United States of America), Robert Murray, Kyle Brandenberger, Douglas Gardenhire

Guido Vagheggini (Volterra (PI), Italy), Arli Veli, Chiara Veneroni, Lisa Perugino, Lucrezia Bertini, Sara Nasoni, Laura Carrozzini, Raffaele L. Dellacà

Pre-congress content Session 126 13:15 - 14:15
E-poster: Non-invasive respiratory support in COVID-19

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care Airway diseases

Method(s): General respiratory patient care Respiratory intensive care Palliative care

Tag(s): COVID

Chairs: Javier Sayas Catalan (Madrid, Spain), Marius Lebret (GRENOBLE, France)

Early intervention with non-invasive respiratory therapies in mild acute respiratory distress syndrome secondary to COVID-19
Sergio Suarez Escudero (Madrid, Spain), Daniel López-Padilla, José Rafael Terán Tinedo, Virginia Parra León, Soledad López Martín, Francisco Caballero Segura, Christian Castro Riera, Alicia Cerezo Lajas, Elena Ojeda Castillejo, Beatriz Recio Moreno, Luis Puente Maestú

High O2 flow rate is necessary to reach acceptable FiO2 levels in CPAP-treated patients with severe COVID-19
Marius Lebret (GRENOBLE, France), Emeline Fresnel, Guillaume Prieur, Jean Quieffin, Johan Dupuis, Bouchra Lamia, Yann Combret, Clément Médrinał

A Retrospective Review of Advanced Respiratory Support for COVID-19 Associated ARDS in a Ward-Based Setting
Fraser Easton (bristol, United Kingdom), Katherine Millington, Christina Baggott, Stuart Winearls, Niall Brown, James Morgan, Katrinka Curtis

Characteristics and outcomes of COVID-19 patients in an Italian sub-intensive care unit
Jacopo Davide Giacello (Busca, Italy), Sara Abram, Francesco Tosello, Giulia Paglietta, Emanuele Bernardi, Atilio Allione, Giulia Cavalot, Sara Bernardi, Luca Dutto, Fabrizio Corsini, Bartolomeo Lorenzati, Gianpiero Martini, Andrea Sciolli, Giuseppa Lauria

Outcomes of patients with COVID-19 pneumonia treated with CPAP
Roberta Di Tria (Rivalta di Torino, Italy), Giovanni Ferrari, Paolo Righini, Alessia Marchisio, Chiara Caponnetto, Valter Gallo, Sonia Bassini, Roberto Prota

Noninvasive ventilatory support in patients with COVID-19 pneumonia in high dependency unit: a single center study
Sladjana Radosavljevic (Novi Sad, Republic of Serbia), Ilija Andrijevic, Jovan Matijasevic, Dusanka Obradovic, Biljana Joves, Stojka Krunic, Stanislava Sovilj-Gmizic, Sandra Pekovic, Senka Milutinov-Ilic, Marija Vukoja

CPAP compared to Conventional Oxygen Therapy as ceiling of care in COVID-19 patients with Advanced Frailty: A retrospective cohort study
Yasser Noeman Ahmed (Southend, United Kingdom), Maryam Noeman, Abdulla Bedir, Iman El Sayed, Ashraf Roshy, Gouri Koduri, Sriya Gokaraju, Patrice Ayuen, Noor Abuenelela, Shashank Sharma, Dora Amran, Duncan Powrie

Timely start of HFNC treatment is beneficial for the outcome in COVID-19
Lemar Tokhi (Västmano, Sweden), Mihovil Roglić, Jane-Erica Paluero, Marina Labor

High-velocity nasal insufflation therapy in Patients with COVID-19 pneumonia
Ahmed Metwaly (Assuit, Egypt), Doaa Magdy

Comparison of CPAP outcomes in COVID-19 between first and second wave
Anoop Babu (Telford, United Kingdom), Muhammad Shafiq, Natalie Hassan, Ujaas Dawar, Marcus Pittman
PA1085  Outcomes in patients requiring CPAP for COVID-19 infection in non-ITU settings
Benjamin Pippard (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Hannah Bright, Victor Chew, Graham Miller, Kevin Conroy, Benjamin Prudon, Vandana Jeebun

PA1086  Risk factors for mortality in HFNO-treated Covid-19 positive patients – a pilot study
Lemar Tokhi (Värnamo, Sweden), Marina Labor, Jane-Erica Paluero, Mihovil Roglic

PA1087  Predictors of mortality in COVID-19 patients requiring CPAP
Muhammad Shafiq (Basildon Essex, United Kingdom), Anoop Babu, Natalie Hassan, Ujaas Dawar, Marcus Pittman

PA1088  Predictors of continuous positive airway pressure (CPAP) response in severe hypoxaemic respiratory failure due to COVID-19 pneumonia
Jonathon Shaw (Greater Manchester, United Kingdom), Jonathon Shaw, Elizabeth Springate, Jospeh Thompson, William Euan Falconer, Hou Law, Georges Ng Man Kwong

PA1089  Rox index as predictor of HFNC success in acute respiratory failure due to SARS-CoV-2 pneumonia
Santos Ferrer Espinosa (Valencia, Spain), Irene Bocigas Huéscar, Jesús Sancho Chinesta, Enric Burés Sales, Jaime Signes-Costa Miñana

PA1090  Outcomes and characteristics of COVID-19 patients treated with CPAP/ HFNO outside of the Intensive Care setting
Dominic Sykes (Garforth, United Kingdom), Khaing Thuthu, Olly I Brown, Ahalya Parthasarathy, Michael G Crooks, Shoaib Faruqi

PA1091  Correlation between lactate dehydrogenase and therapeutic strategy in Covid-19 pneumonia
Roberta Cianci (POTENZA, Italy), Ludovica Capitelli, Miriam Buonincontro, Rosalba Donizzetti, Dario Cuomo, Antonio Prisco, Francesco Squillante, Vincenzo Bocchino

PA1092  Cost-effectiveness of the use of Continuous Positive Airway Pressure in COVID-19 patients at Medway NHS Foundation Trust
Thomas Gower (London, United Kingdom), Rahuldeb Sarkar, Sandip Banerjee, Claire Froneman, Aidan Ryan

PA1093  How far is too far? A review of non-invasive ventilation as ceiling of care in COVID-19 patients not suitable for invasive mechanical ventilation.
Elizabeth Springate (Stockport, United Kingdom), Jonathon Shaw

PA1094  AWAKE PRONE POSITION IN CRITICAL AND SEVERE COVID-19 PATIENTS UNDERGOING NONINVASIVE RESPIRATORY SUPPORT: A RETROSPECTIVE MULTICENTER COHORT STUDY.
Roberto Tonelli (Modena, Italy), Ivana Castaniere, Luca Tabbi, Lara Pisani, Irene Prediletto, Vittoria Comellini, Riccardo Fantini, Alessandro Marchioni, Dario Andrisani, Filippo Gozzi, Giulia Bruzzi, Linda Manicardi, Ilaria Bassi, Marco Carpano, Federico Tagariello, Gabriele Corsi, Stefano Nava, Enrico Clini

Pre-congress content  Session 127  13:15 - 14:15

E-poster: Severe asthma: evaluation using patient-reported outcome measures (PROMs) and biomarkers, comorbidities and treatments

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): General respiratory patient care  Epidemiology  Public health  Pulmonary function testing  Endoscopy and interventional pulmonology  Cell and molecular biology

Chairs: Angira Dasgupta (Kolkata (West Bengal), India), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

PA1095  Derivation and validation of the subscales of the severe asthma questionnaire
Rupert Jones (Milton Combe, United Kingdom), Michael Hyland, Lanario Joseph, Matthew Masoli, Adel Mansur, Andrew Menzies-Gow, Stephen Fowler, James Dodd

PA1096  Use and reporting of health related quality of life questionnaires in severe asthma clinical trials
Joseph Lanario (Plymouth (Devon), United Kingdom), Lorna Burns

PA1097  A questionnaire to measure the extra-pulmonary symptoms of asthma
Joseph Lanario (Plymouth (Devon), United Kingdom), Giulio De Felice, Michael Hyland, Yuri Antonacci, Rupert Jones, Matthew Masoli
Development of a tool to measure the clinical response to biologic therapy in uncontrolled severe asthma: the FEOS score.
Iria Veiga Teijeiro (Lugo (Galicia), Spain), Indhira Guzmán Peralta, Luis Pérez De Llano, Irene Martín Robles, Nagore Blanco Cid, David Ducal Rivas, Ignacio Davila, Eva Martínez-Moragón, Javier Domínguez Ortega, Carlos Almonacid, Carlos Colás, Juan Luis García-Rivero, Loreto Carmona, María Jesús García De Yébenes, Borja García-Cosío

Swiss Severe Asthma Registry (SSAR)- Good asthma control and high number of exacerbations. How does this fit?
Fabienne Jaun (Liestal, Switzerland), Janina Capponi, Anja Jochmann, Nikolay Pavlov, Lukas Kern, Sandra Widmer, Christian Clarenbach, Noriane Sievi, Claudia Steurer-Stey, Hans-Werner Duchna, Thomas Rothe, Marinela Dinic, Carina Oberhönsli, Pietro Gianella, Michela Paronitti Lovera, Florian Charbonnier, Marléne Salamin, Pierre-Olivier Bridevaux, Christophe Von Garnier, Jörg D. Leuppi

Low versus high Th2 asthma: variability of blood eosinophil counts in a longitudinal analysis
Brian Patchett (Philadelphia, United States of America), Granit Mavraj, Bede Nriagu, Ruchi Patel, Edward Schulman

FeNO threshold used to select severe asthma patients for Dupilumab may be inappropriate>
Jérémy COFINO CASANUEVA (Brussels, Belgium), Alain Van Muylem, Amaryllis Haccuria, Lucas Demey, Alain Michils

BREATHE – Distribution and co-expression of T2 biomarkers in asthma and association with severity, clinical characteristics and co-morbidities
Ditte Klein (København NV, Denmark), Laurits Frossing, Gunilla Telg, Celeste Porsbjerg

Eosinophilic refractory inflammation in OCS-dependent severe asthma
Vitina Carriero (Orbassano, Italy), Francesca Bertolini, Elisa Arrigo, Fabio Luigi Massimo Ricciardolo

A proposal for standardization of the bronchial biopsy assessment in severe asthma
Hanaa Shafiek (Alexandria, Egypt), Cristina Gomez, Amanda Iglesias, Mar Iglesias, Ana Gonzalez-Piñeiro, Marta Rodriguez, Mónica García-Cosío, Eladio Busto, Javier Martín, Melchor Saiz, Biron Paz, Amparo Benito, Luis Mejías, Laura Lopez Vilaro, Borja G Cosio

Characterisation of severe, steroid-dependent asthma patients who initiate biologics versus those who do not
Wenjia Chen (Vancouver, Canada), Wenjia Chen, Mohsen Sadatsafavi, Lakmini Bulathsinhala, Esther Garcia Gil, Trung Tran, J. Mark Fitzgerald, Ruth Murray, David Price, Isar Glitter Working Group

Baseline characteristics of severe asthma patients initiating biologic treatment worldwide
Luis Pérez De Llano (Lugo, Spain), Aivaras Cepelis, Trung Tran, Ruth Murray, David Price, International Severe Asthma Registry Beam Working Group

Efficacy of azithromycin in a real world severe asthma cohort
Ayesha Kumar (Liverpool, United Kingdom), Seher Zaidi, Nicola Fay, Thomas Fitzmaurice, Abigail Watkin, Hannah Joplin, Hassan Burhan

Adapting asthma clinical trials in response to the COVID-19 pandemic - the BenRex study design
Steven Smith (Glasgow, United Kingdom), Steven Smith, Lynsey Gillespie, Liam Heaney, Christopher Brightling, Alex Mcconnachie, Salman Siddiqui, Vijay Mistry, Vanessa Brown, David Jackson, Nicola Lee, Stephen Fowler, Adel Mansur, Hassan Burhan, Dinesh Saralaya, Ramesh Kurukulaaratchy, Shuaib Nasser, Paul Pfeffer, Thomas Brown, James Lordan, Ian Pavord, Rekha Chaudhuri

Inducible laryngeal obstruction in asthma
Aase Johnsen Rogde (Bergen, Norway), Sverre Lehmann, Hege Synnove Havstad Clemm, Ola Orange Raslund, Haakon Kristian Kvitald, Thomas Halvorsen, Maria Vollsaeter, Tiina Maarit Andersen

Detection of laryngeal dysfunction in the systematic assessment of severe asthma
Julia Selby (London, United Kingdom), Breda Cushen, Pujan Patel, Rosie Rauch, James Hull

The burden of COPD in young individuals: results from EPISCAN II
Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Ciro Casonova, Joan B Soriano, Inmaculada Alfageme, Marc Miravitlles, Pilar De Lucas, Juan Jose Soler-Cataluña, Francisco García-Rio, Jose Miguel Rodriguez Gonzalez-Moro, Guadalupe Sanchez-Herrero, Julio Acochea

Late Breaking Abstract - Durable clinical benefit of benralizumab following oral corticosteroid reduction: The PONENTE study
Andrew Menzies-Gow (London, United Kingdom), Mark Gurnell, Liam G. Heaney, Jonathan Corren, Elisabeth H. Bel, Jorge Maspero, Timothy Harrison, David J. Jackson, David Price, Njira Lugogo, James Kreindler, Annie Burden, Alex De Giorgio-Miller, Kelly Padilla, Ubaldo J. Martin, Esther Garcia Gil

Late Breaking Abstract - Comparative Effectiveness of Anti-IL5/5R Versus Anti-IgE in Patients Eligible for Both (FIRE)
Nasloon Ali (Singapore, Singapore), Juntao Lyu, Anthony Newell, Mohsen Sadatsafavi, Trung N Tran, David B Price
Late Breaking Abstract - Standard-of-Care Asthma Controller Regimen Reduction with Benralizumab Treatment: ANDIH In Practice Study

Renaud Louis (Liège, Belgium), Pascal Chanez, Francesco Menzella, George Philoteos, Borja G Cosio, Njira L. Lugogo, Gustavo De Luiz, Tim Harrison, Annie Burden, Timothy Adlington, Nanna Keeling, Justin Kwiatak, Esther Garcia Gil

Pre-congress content: Session 128 13:15 - 14:15

E-poster: Biology of lung cancer: preclinical and translational research

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Cell and molecular biology

Chairs: Ilona Tietzova (Praha, Czech Republic), Georgia Hardavella (Athens, Greece)

LSC - 2021 - Mapping of Kras mutations during chemical carcinogenesis
Sabine J. Behrend (München, Germany), Magda Spella (magsp@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras), Mario A. A. Pepe (mario.pepe@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum, München), Georgia A. Giotopoulou (georgia.giotopoulou@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum, München), Marina Lianou (lianou@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras), Ioanna Giopanou (giopanou@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras), Anne-Sophie Lamort (anne-sophie.lamort@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum, München), Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum, München)

PA1114

PA1115

cAMP response element-binding protein mediates immune-evasion of KRAS-mutant lung adenocarcinoma
Georgia A. Giotopoulou (Munich, Germany), Giannoula Ntaliarda, Antonia Maraziotti, Ioannis Lilis, Nikolitsa Spiroupolou, Fotini Kalogianii, Evanthis Tzourkochristou, Ioanna Giopanou, Marianne Iliopoulou, Aigili Korfiati, Konstantinos Theofilatos, Seferina Mavroudi, Theofilos Mantamadiotis, Torsten Goldmann, Sebastian Marwitz, Georgios T. Stathopoulos

PA1116

PARP activity and expression in response to DNA damage in mice with lung cancer-induced cachexia
JUN TANG (Barcelona, Spain), JUN TANG, Xuejie Wang, Liyun Qin, Coral Ampur danés, Xavier Duran, Lara Pijuan, José Yelamos, Esther Barreiro

PA1117

Lipid-related anti-cancer drug resistance of lung adenocarcinoma cells
Anna Gründing (Hannover, Germany), Beatriz Martinez-Delgado, Bin Liu, David Deluca, Sabine Wrenger, Tobias Welte, Sabina Janciauskiene

PA1118

IGF1R facilitates implantation and progression of lung metastasis acting in the tumor microenvironment
Elvira Alfaro Arnedo (Logroño (La Rioja), Spain), Icitar P López, Sergio Piñeiro-Hermida, Marta Canalejo, Carlos Ruiz-Martínez, José G Puchel

PA1119

The inhibition of caspase-11 could prevent lung cancer in smoking mice
Chiara Colarusso (Fisciano (SA), Italy), Michela Terlizzi, Aldo Pinto, Rosalinda Sorrentino

PA1120

LSC - 2021 - Macrophages in lung adenocarcinoma
Giannoula Ntaliarda (Patra, Greece), Ioannis Lilis (ioanissilis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras), Magda Spella (magsp@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras), Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC) and Institute for Lung Biology and Disease (iLBD); University Hospital, Ludwig-Maximilians University and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich)

PA1121

LSC - 2021 - Preclinical evaluation of IL-18 inhibition against KRAS-mutant lung adenocarcinoma
Georgios Skiadas (Patras, Greece), Giannoula Ntaliarda (ntaliarda@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras), Magda Spella (magsp@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras), Maarten De Chateau (dechateau@buzzardpharma.com / Buzzard Pharmaceuticals, Karolinska Institute Science Park, Stockholm), Georgios Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC) and Institute for Lung Biology and Disease (iLBD); University Hospital, Ludwig-Maximilians University and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich)

PA1122

Does acute phase protein alpha-1-antitrypsin modulate apoptosis-autophagy crosstalk resulting in resistance of NSCLC cells to cancer drugs?
Sabine Wrenger (Hannover, Germany), Anna R. Gründing, Tobias Welte, Sabina Janciauskiene

PA1123
PA1125 Lung Cancer Stem Cells From Lymph Nodes Aspirates Express Immunosuppressive Molecules
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecień, Elżbieta Rutkowska, Rafał Sokolowski, Joanna Domagala-Kulawik

PA1126 FGFR1 gene aberrations and FGFR1 protein expression in squamous non-small cell lung cancer (Sq-NSCLC).
Joanna Moes-Sosnowska (Warsaw, Poland), Adriana Rozy, Monika Skupińska, Urszula Lechowicz, Ewa Szczepańska-Wojcik, Renata Langfort, Piotr Rudzinski, Tadeusz Orłowski, Delfina Popiel, Marek Wieczorek, Aleksandra Stanczak, Joanna Chorostowska-Wynimko

PA1127 Regulation of PA200 in lung cancer
Ayse Seda Yazgili (München, Germany), Vanessa Welk, Thomas Meul, Christina Lukas, Ina Koch, Elvira Stacher-Priehse, Michael Lindner, Georgios Stathopoulos, Silke Meiners

PA1128 Microbial analysis in lung cancer according to PD-L1 level and immunotherapy response
Hye Jin Jang (Seoul, Republic of Korea), Seung Hyun Yong, Eun Young Kim, Ji Ye Jung, Young Ae Kang, Moo Suk Park, Young Sam Kim, Sang Hoon Lee, Young Jae Cho

PA1129 Evaluation expression of miR-146a and miR-155 and inflammatory cytokines in blood of non-small cell lung cancer patients
Neda K. Dezfuli (Tehran, Islamic Republic of Iran), Shamila Alipoor, Neda Roochayee, Sharareh Seyfi, Esmail Mortaz

PA1130 High fold-changes in peripheral blood PD-1+ CD8+ T cells expressing Granzyme B predicts the response to immunotherapy in NSCLC
Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Jae Heun Chung, Seong Hoon Yoon, Hee Yun Seol

PA1131 Identifying a tissue specific microRNA molecular signature in lung cancer
Antonia Tent (Cluj-Napoca, Romania), Ioana Berindan-Neagoe, Ioan Simon, Marioara Simon

PA1132 Lung cancer biomarkers based on miRNA
Macarena Arroyo Varela (Malaga, Spain), Elena Espinosa Garcia, Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, Rocío Bautista Moreno

PA1133 Efficiency of carbon nano tube (CNT) capture of blood circulating lung cancer cells
Rex Yung (Owings Mills, United States of America), Seyed Masoud Loeian, Jessica Moja, Rajeev Mehta, Ganesh Krishnan, John Park, Jeffrey Allard, Mark Myslinski

Pre-congress content Session 129 13:15 - 14:15
E-poster: Biomarkers for the management of bronchial obstructive diseases
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): Pulmonary function testing, Physiology, Epidemiology, General respiratory patient care, Respiratory intensive care, Public health, Cell and molecular biology

Chairs: Polyxeni Ntontsi (Athens, Greece), Andrei Malinovschi (Uppsala, Sweden)
Serum periostin and eotaxin-2 as promising biomarkers in asthmatic smokers.
Saher Farghly (Assiut, Egypt), Atef Farouk El-Karn, Mahmoud Farouk Sherif, Mohamed Ismail Seddik, Safaa Abdelgayed, Mohammed Abdelghany

Change of T2-markers in patients with severe uncontrolled asthma treated by monoclonal antibodies: 1 yr follow up
Galina Sergeeva (St. Petersburg, Russian Federation), Alexander Emelyanov, Eugenia Leshenkova, Antonina Znakurkenko

Biomarkers for the management of severe asthma: a survey
Claudio Micheletto (S.Giovanni Lupatoto, Italy), Leonardo Antonicelli, Lorenzo Cecchi, Francesco Menzella, Adriano Vaghi

The role of asymmetric dimethylarginine (ADMA) in patients with asthma
Anton Shakhanov (Ryazan, Russian Federation), Irina Nikitina, Oleg Uryasev

A novel method of using exhaled nitric oxide to calculate compartmental airway pH
Michael Davis (Indianapolis, United States of America), Jessica Saunders, Ivana Daniels, Charles Clem, Laura Smith, Nadzeya Marozkina, Kristie Ross, Yi Zhao, Benjamin Gason

Are asthma symptom intensity scales better than biomarkers for diagnosing asthma? A prospective observational study
Gilles Louis (Liège, Belgium), Florence Schleich, Michèle Guillaume, Anne-Françoise Donneau, Halehsadat Nekoe Zahraei, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Benoit Pétré

An innovative high sensitivity tool for active neutrophil elastase quantification
Darragh McCafferty (Belfast (Belfast), United Kingdom), Sarah Johnston, Timothy Ferguson, Kelly Moffitt

Validation of a multiplex assay for measurement of IL-6, IL-8, and TNF-alpha in sputum
Darragh McCafferty (Belfast (Belfast), United Kingdom), Philip Weir, Kelly Moffitt

Development of the first protease multiplex immunoassay for active neutrophilic serine protease biomarkers
Darragh McCafferty (Belfast (Belfast), United Kingdom), Kelly Moffitt, Timothy Ferguson

Correlation of serum levels of matrix-metalloproteinase-9, cyclo-oxygenase-2, and prostaglandin-E-2 in Chronic obstructive pulmonary disease (COPD)
Ayaj Kumar Verma (Lucknow (Uttar Pradesh), India), Anuj Kumar Pandey, Arpita Singh, Surya Kant, Abbas Ali Mahdi, Ved Prakash, Kausar Mahmood Ansari, Rakesh Kumar Dixit, Shyam Chand Chaudhary

The role of Microalbuminuria as a predictor marker during acute exacerbations of Chronic Obstructive Pulmonary Disease
Konstantinos Bartziokas (Trikala, Greece), Chris Kyriakopoulos, Evangelia Dounousi, Georgia Gkrepi, Konstantinos Kostikas

Within-day variability of blood eosinophils in stable COPD patients: a prospective trial.
Inês Van Rossem (Bruxelles, Belgium), Shane Hanon, Sylvia Verbanck, Sander Deridder, Eef Vanderhelst

Copeptin – a marker for differential diagnosis between acute exacerbation of COPD and heart failure in patients with acute dyspnea
Ventisislava Pencheva Genova (Sofia, Bulgaria), Victor Manolov, Ognian Georgiev

Relationship between systemic inflammation and rhythmicity of acute exacerbations of COPD
Ahmed Ben Saad (Monastir, Tunisia), Asma Migaoou, Rania Kaddoussi, Nesrine Fahem, Samah Joobeur, Saousen Cheikh Mhamed, Naceur Rouabhi

Study of microalbuminuria in COPD patients and its association with cardiac comorbidities
UTKARSH KHATTRI (Meerut, India), Lalit Singh, Rajeev Tandon, Geeta Karki, Nida Choudhry

A specific monoclonal antibody targeting C-36 peptide of alpha-antitrypsin as a tool in respiratory research
Srini Tumpara (Hannover, Germany), Srini Tumpara, Elena Korenbaum, Tobias Welte, Beatriz Martinez Delgado, Sabina Janciauskiene

Determinants of blood eosinophil count in adults from a large population-based study
Rita Amaral (Porto, Portugal), Tiago Jacinto, Andrei Malinovschi, Christer Janson, David Price, João Fonseca, Kjell Alving

Breathing rhythm does not influence exhaled volatile organic compound profile analyzed by an electronic nose.
Silvano Dragonieri (Bari (BA), Italy), Vitaliano Nicola Quaranza, Enrico Buonamico, Fabrizio Diaferia, Giovanna Elisiana Carpagnano

Measurements of upper and lower airway nitric oxide in healthy adults
Balázs Csoma (Budapest, Hungary), Filippa Beringer, Gergő Szűcs, Veronika Müller, Zsófia Lázár
Session 130 13:15 - 14:15

**Pre-congress content**

**E-poster: Long COVID - 19**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s):** COVID

**Chairs:** Gernot G.U. Rohde (Frankfurt am Main, Germany), Søren Sperling Haugen (Aarhus N, Denmark)

**PA1155** Persistent lung abnormalities versus established fibrosis: a prospective study of COVID-19 follow-up  
Bavithra Vijayakumar (Thame (Oxfordshire), United Kingdom), James Tonkin, Anand Devaraj, Keir E J Philip, Christopher M Onron, Sujal R Desai, Pallav L Shah

**PA1156** Post-discharge persistent symptoms after hospitalization for COVID-19  
Nozha Ben Salah (Tunis, Tunisia), Mohamed aymen Jebali, Hana Blibeche, Houda Snene, Donia Belkhir, Mariem Maalej, Safa Kerkeni, Mariem Trabelsi, Ahmed Laater, Nadia Mehiri, Bechir Louzir

**PA1157** Predicting factors of pulmonary functional sequelae in COVID-19 patients after 4 months from hospital admission  
Annalisa Frizzelli (Parma, Italy), Annalisa Frizzelli, Marina Aiello, Luigi Calzetta, Pier Anselmo Morì, Laura Marchi, Veronica Alfieri, Nicola Sverzellati, Maria Majori, Alfredo Chetta

**PA1158** Mental disorders in patients (pts) with COVID-19 pneumonia: comparison with COPD exacerbation  
Natalia Sanina (Dnipro, Ukraine), Yuliia Huba, Tetiana Pertseva, Lyudmyla Konopkina, Kseniya Bielosludtseva, Olha Shchuduro

**PA1159** Influence of COVID-19 pneumonia on development of mental disorders  
Natalia Sanina (Dnipro, Ukraine), Yuliia Huba, Tetiana Pertseva, Lyudmyla Konopkina, Kseniya Bielosludtseva, Olha Shchuduro

**PA1160** Respiratory Physiological Sequelae following Coronavirus Infection: A Systematic Review  
Ketan Patel (Colchester, United Kingdom), Christopher C. Huntley, Shahnoor-E-Salam Bushra, Farah Mobeen, Peter S Burge, Alice M Turner, Gareth I Walters

**PA1161** Peculiar high resolution computed tomography patterns in post-covid fibrosis  
Richa Tyagi (Lucknow (UP), India), Surya Kant, Darshan Bajaj, Anit Parihar

**PA1162** Quality of life of patients three months after COVID-19 hypoxemic pneumonitis  
Houda Snène (Tunis, Tunisia), Issraa El Wadhane, Hana Blibeche, Safa Kerkeni, Meriem Trabelsi, Wafa Fenina, Meriem Maalej, Aymen Jebali, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

**PA1163** Post-COVID impairment: objective multidimensional assessment of long term effects in hospitalized, non-ICU patients  
Emanuel Cardoso (Basel, Switzerland), Andrei Darie, Matthias Herrmann, Desiree M. Schumann, Leticia Grize, Werner Strobel, Kathleen Jahn, Michael Tammm, Daiana Stolz

**PA1164** Predictors of mental health disorders in health workers during COVID-19 pandemic  
Rihab Jebali (ARIANA, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Hafaoua Daghfous, Fatma Tritar

**PA1165** Insomnìa in COVID-19 survivors: prevalence, severity and associated factors  
Warda Jelassi (TUNIS, Tunisia), Abrir Heddîl , Cyrine Echeikh, Meriem Mjid, Yacine Ouahchi, Samira Merai, Sonia Toujani, Besma Dhalhi

**PA1166** LOTUS - Long-term pulmonary outcomes after infection with SARS-CoV-2: Dyspnea is poorly explained by reduced lung function  
Søren Sperling Haugen (Aarhus N, Denmark), Andreas Floe, Steffen Leth, Tina Gissel, Lars Kristensen, Charlotte Hylgaard, Lene Dahl, Ayfer Topcu, Johannes Schmid, Soren Jensen-Fangel, Hans Jürgen Hoffmann, Elisabeth Bendstrup

**PA1167** Radiologic follow-up after COVID-19 pneumonia  
Elisabetta Cocconcelli (Padova (PD), Italy), Nicol Bernardinello, Chiara Giraudo, Adelaide Giorgino, Davide Leoni, Serena Marinello, Sara Lococo, Gioele Castelli, Marina Saetta, Annamaria Cattelan, Paolo Spagnolo, Elisabetta Balestro

**PA1168** First insight into the complexity of post-covid recovery - a single centre experience  
Marko Banić (Zagreb, Croatia), Andrea Vukić Dugac, Miroslav Samaržija, Davorka Muršić, Zagorka Boras, Vesna Trkeš, Denis Baričević, Marta Koršić, Maja Juričić Kursan, Tajana Jalušić Glunčić, Latinka Basara, Mateja Janković Makek
Development of asthma-related symptoms in mild or moderate COVID-19 patients several months post infection: A descriptive case series from a pneumologist outpatient clinic
Miriam Marchon (Faoug, Switzerland), Andrea Stieger, Severin Wittmer

Patterns of dyslipidaemia in postCOVID19 follow up patients; food for thought
Irma Bracka (GALATSI ATHENS, Greece), Irma Bracka, Elli Keramida, Eleni Bellou, Ioannis Machairas Sallas, Ioannis Karampinis, Theodoras Daskalos, Spyridon Mazarakis, Panagiotis Demertzis, Venia Papagiannopoulou, Georgia Hardavella

Trajectory of patient-reported outcomes (PROMs) up to 6 months after hospitalization for SARS-CoV-2

Depression, anxiety, traumatic stress and burnout in healthcare workers (HCWs) during the COVID-19 pandemic in Greece:a multi-center, cross-sectional study
Nikolaos Athanasiou (Athens, Greece), Sofia Pappa, Stavros Patrinos, Zafeiria Barmparssou, Stamatoula Tsikrika, Andreas Adraktas, Athanasia Patakas, Ilias Migdalis, Sofia Gida, Paraskevi Katsaounou

Pulmonary function and tomographic features of COVID-19 survivors 2 months after hospital discharge: a cohort study
Nina Visconti (Rio De Janeiro (RJ), Brazil), Michelle Cailleux-Cezar, Barbara Bracarense, Fabio Amorim, Fernanda Silva, Nadja Graça, Luiz Paulo Lovos, Domenico Capone, Maria Izabel Santos, Alexandre Cardoso, Fernanda Melo

Symptoms and quality of life in Finnish COVID-19 survivors – women more symptomatic after six months
Anna Lindahl (Helsinki, Finland), Miia Aro, Jere Reijula, Mika Juhani Mäkelä, Jukka Ollgren, Mervi Puolanne, Asko Järvinen, Tuula Vasankari

Channel 1 Session 131 14:30 - 15:45
Challenging clinical cases: CCC Paediatric respiratory diseases
Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in paediatric respiratory diseases area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

Disease(s): Paediatric respiratory diseases
Target audience: Paediatrician, Clinical researcher, General practitioner, Nurse, Physiologist, Radiologist, Physician in Pulmonary Training, Respiratory critical care physician, Respiratory physiotherapist

Chairs: Monika Gappa (Düsseldorf, Germany), Stefan Unger (Edinburgh (Edinburgh), United Kingdom)

14:30 Introduction
14:35 One bug, many drugs
Kushalinii Hillson (Great Kingshill, United Kingdom)

14:45 Telehealth possibilities and pitfalls in COVID-19 lockdown: a case of hypoxia in a child
Marco Zampoli (Cape Town, South Africa)

14:55 DRESS to Impress: A Case of Eosinophilic Bronchiectasis with Systemic Sequelae
Elise Cole (Glasgow, United Kingdom)

15:05 Unusual cause of newborn respiratory distress
Arlette Andrade (La Serena, Chile)

15:15 Clubbing: A learning curve
Laura Gardner (LONDON, United Kingdom)

15:25 Discussion and Q&A
All Speakers

Channel 2 Session 132 14:45 - 16:15
Oral presentation: COVID-19: insights from respiratory physiotherapists
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
Disease(s): Airway diseases, Interstitial lung diseases, Respiratory critical care

Method(s): Pulmonary rehabilitation, Public health, Pulmonary function testing, General respiratory patient care

Tag(s): COVID

Chairs: Chris Burtin (Diepenbeek, Belgium), Victoria Alcaraz Serrano (Barcelona, Spain)

**OA1182 Introduction**

**OA1183** Impact of wearing different facial masks on respiratory symptoms, oxygen saturation, and functional capacity during six-minute walk test (6MWT) in healthy young adults

Sauwaluk Dacha (Chiang Mai, Thailand), Busaba Chuatrakoon, Kanphajee Sornkaew, Kamonchanok Suthakhun, Putsamon Weeranorapanich

**OA1184** Association between functionality and respiratory impairment after hospitalization for COVID-19: a cohort study

Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Caroline Gil Godoy, Érika Cristina Gouveia-Silva, Rafaela Fagundes Xavier, Danielle Brancolini Oliveira, Luciana Cassimiro, Vinicius Iamonti, Carlos Toufen Jr, Carlos R Carvalho, José Eduardo Pompeu

**OA1185** Physical and self-reported abnormalities to Long-COVID in hospitalized and non-hospitalized COVID-19 patients: A single-center cross-sectional study

Henrik Hansen (Dragør, Denmark), Stine Jonsen, Stefan Sattler, Kamilla Miskowiak, Keerthana Kunalan, Allan Victor, Lars Pedersen, Helle Frost Andreasen, Barbara Jolanta Jørgensen, Hanne Heeboll, Michael Brun Andersen, Lisbeth Marner, Carsten Hædersdal, Sisse Bolm Ditlev, Celeste Porsbjerg, Thérèse Lapperre

**OA1186** Severe fatigue in long COVID - a follow-up study

Maarten Van Herck (Diepenbeek, Belgium), Yvonne Goërtz, Sarah Houben-Wilke, Felipe Machado, Roy Meys, Jeannet Delbressine, Anouk Vaes, Chris Burtin, Rein Posthuma, Frits Franssen, Bita Hajian, Herman Vlijm, Yvonne Spies, Alex Van ‘T Hul, Daisy Janssen, Martijn Spruit

**OA1187** Post-Discharge Telerehabilitation Practices In Covid-19 Patients

Esra Pehlivan (Istanbul, Turkey), Ismail Palalı, Sibel Gayretli, Demet Turan, Halit Çınarka, Erdoğan Çetinkaya

**OA1188** Pulmonary rehabilitation in individuals pos-acute COVID-19 infection: Preliminary results

Rafaela Xavier (São Paulo (SP), Brazil), Caroline Godoy, Erika Gouveia E Silva, Vinicius Iamonti, Jose Eduardo Pompeu, Carlos Toufen Jr., Carlos Carvalho, Celso Carvalho

**OA1190** Face-to-face pulmonary rehabilitation in the middle of the pandemic: patients’ views

Maria Gomes (Albergaria-à-Velha, Portugal), Maria Gomes, Sara Almeida, Sara Souto-Miranda, Guilherme Rodrigues, Alda Sofia Pires De Dias Marques

**OA1191** Late Breaking Abstract - Physical activity-related aspects of individuals with COPD in social isolation due to the COVID-19 pandemic.

Nidia Aparecida Fernandes (Londrina (PR), Brazil), Andrea Daiane Fontana, André Vinicius Santana, Lorena Paltanin Schneider, Rafaela Cristina Almeida, Leandro Cruz Mantoani, Karina Couto Furlanetto, Raquel Pastrello Hirata, Thainá Bessa, Carlos Augusto Marçal Camillo, Fabio Pitta

**OA1192** Late Breaking Abstract - Physical activity recovery in patients with COVID-19 infection included in pulmonary rehabilitation

Marieke Wyts (Laeken, Belgium), Marieke Wyts, Stephanie Everaerts, Yannick Vande Weygaerde, Bihiyya Salhi, Fien Hermans, Eric Derom, Natalie Lorent, Wim Janssens, On Behalf Of Leuven-Gent Pulmonary Rehabilitation Teams

**OA1193** Discussion

All Speakers
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1195</td>
<td>Safety, pharmacokinetics, and pharmacodynamics of TD-8236, an inhaled pan-JAK inhibitor, following single- and multiple-ascending doses in healthy volunteers and mild asthmatics</td>
<td>Nathan Pfeifer (South San Francisco, United States of America), Tadhg Guerin, Kenneth Colley, Wayne Yates, Elad Kaufman, Jacky Woo, Richard Graham, David Bourdet, Dave Singh</td>
</tr>
<tr>
<td>OA1196</td>
<td>Inhaled JAK inhibitor GDC-4379 reduces FeNO in patients with mild asthma</td>
<td>Hubert Chen (South San Francisco, United States of America), Rebecca Kunder, Yixuan Zou, Hallam Gugelmann, Joshua Galanter, Rui Zhu, Ryan Owen, Tracy Staton, Matthew Wright, Matthew Durk, Avi Eliahu, Maria Wilson, Richard Beasley, Irene Braithwaite</td>
</tr>
<tr>
<td>OA1197</td>
<td>Phase 1 study of a novel, prolonged-action anti-IL-5 monoclonal antibody in asthma</td>
<td>Dave Singh (Manchester, United Kingdom), Rainard Fuhr, Nicholas Bird, Sarah Mole, Kelly Hardes, Yau Lun Man, Anthony Cahn, Steven Yancey, Isabelle Pouliquen</td>
</tr>
<tr>
<td>OA1198</td>
<td>Effect of tezepelumab on the proportion of exacerbation-free patients with severe, uncontrolled asthma in NAVIGATOR</td>
<td>Stephanie Korn (Mainz, Germany), Arnaud Bourdin, Geoffrrey Chupp, Gene Colice, Christopher S Ambrose, Kamil Kmita, Jean-Pierre Llanos-Ackert, Nestor Molfino, Bill Cook</td>
</tr>
<tr>
<td>OA1199</td>
<td>Improvements in cough severity and cough-related quality of life in a phase 2 trial (RELIEF) with the P2X3 antagonist BLU-5937 in refractory chronic cough (RCC)</td>
<td>Surinder S. Birring (London, United Kingdom), Jaclyn A. Smith, Alyn H. Morice, Mandel Sher, James H. Hull, Alan B. Goldsobel, Sylvain Lanouette, Ella Li, Laurent Harvey, Catherine M. Bonuccelli</td>
</tr>
<tr>
<td>OA1200</td>
<td>Intravenous iron replacement improves exercise tolerance in COPD: A randomised trial</td>
<td>Clara Martín Ontiyuelo (Barcelona, Spain), Anna Rodó Pin, Daniel Echeverría Esnal, Mireia Admetlló, Xavier Duran Jordà, Joaquim Gaa, Esther Barreiro, Diego A. Rodríguez-Chiaradia</td>
</tr>
<tr>
<td>OA1202</td>
<td>Discussion</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Channel 4 Session 134 14:45 - 16:15**

**Oral presentation: The future of idiopathic pulmonary fibrosis**

**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

This session includes the Best Abstract for Assembly 12 - Interstitial Lung Diseases, entitled "Results of a phase 2 study of GLPG1205 for idiopathic pulmonary fibrosis (PINTA)"

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

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

**Chairs**: Wim A Wyts (Leuven, Belgium), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

**OA1203**

**Introduction**

**OA1204**

**Prognostic significance of dose reduction of antifibrotics in patients with IPF**

Simon Porse (København N, Denmark), Nils Hoyer, Thomas Skovhus Prior, Elisabeth Bendstrup, Saher B. Shaker

**OA1205**

**Lung cancer in patients with Idiopathic Pulmonary Fibrosis. A retrospective multicenter study in Europe.**


**OA1206**

**Outcomes of patients with progressive fibrosing interstitial lung disease (PF-ILD) – data from a prospective ILD registry**

Michael Kreuter (Heidelberg, Germany), Hans-Joachim Kabitz, Lars Hagmeyer, Peter Hammerl, Albert Esselmann, Conrad Wiederhold, Dirk Skowasch, Christoph Stolpe, Marcus Joest, Stefan Veitshans, Marc Höfligert, Phileen Maqhuzu, Larisa Schwarzkopf, Andreas Hellmann, Michael Pfeifer, Jürgen Behr, Rainer Karpavicius, Andreas Günther, Felix J. F. Herth, Philipp Markart
**Session 135**

**14:45 - 16:15**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

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

**Chairs:** Aurelie Fabre (Dublin 4, Ireland), Guillaume Beltramo (Dijon, France)

**OA1213 Introduction**

**OA1214 Inhaled corticosteroids reduce senescence in endothelial progenitor cells from COPD patients**
Koralia Paschalaki (London, United Kingdom), Christos Rossios, Vassilis Gorgoulis, Anna Randi, Pater Barnes

**OA1215 Proteomics approach to identify COPD-related changes in pulmonary fibroblasts**
Nick Bekker (Reeuwijk, Netherlands), Alienke Van Pijkeren, Justina Clarinda Wolters, Alejandro Sánchez Brotons, Victor Guryev, Rainer Bischoff, Wynand Alkema, Maarten Van Den Berge, Peter Horvatovich, Wim Timens, Corry-Anke Brandsma

**OA1216 Increased arterial remodelling in smokers and mild-moderate COPD patients are indicative of potential early onset of pulmonary hypertension.**
Prem Bhattarai (Launceston, Australia), Wenying Lu, James Markos, Collin Chia, Josie Larby, Greg Haug, Andrew Williams, Stephen Myers, Ashutosh Hardikar, Archana Vijay Gaikwad, Surajit Dey, Gurpreet Kaur Singhera, Tillie L. Hackett, Mathew Suji Eapen, Sukhwinder Singh Sohal

**OA1217 Increased expression of SARS-CoV-2 (Covid-19) adhesion sites on type II pneumocytes, small airway epithelium, and alveolar macrophages in smokers and patients with COPD**
Samuel James Brake (Newnham, Australia), Wenying Lu, James Markos, Josie Larby, Collin Chia, Greg Haug, Heinrich C. Weber, Kielan Darcy Mcalinden, Ashutosh Hardikar, Gurpreet Kaur Singhera, Tillie L. Hackett, Mathew Suji Eapen, Sukhwinder Singh Sohal

**OA1218 Association of the salivary microbiome with asthma exacerbations**
Javier Perez-Garcia (San Cristóbal de La Laguna, Spain), Javier Pérez García, Antonio Espuela-Ortiz, José M. Hernandez-Perez, Ruperto Gonzalez-Perez, Olaia Sárdon, Elena Martín-González, Elena Mederos-Luis, Paula Corcúera, Immaculada Sánchez-Machín, Paloma Poza-Guedes, Ariel Callero, Mario González, Luis Manuel González García, Javier Korta-Murua, Jesús Villar, Maria Pino-Yanes, Fabian Lorenzo-Díaz

**OA1219 USEFULNESS OF MIRNAS AS PREDICTORS OF LUNG CANCER IN PATIENTS WITH COPD. A PILOT STUDY**
Noemi Cerón Pisa (Palma, Illes Balears, Spain), Amanda Iglesias Coma, Francisco Javier Verdú Rivera, Josep Muncunill Farreny, Jaume Sauleda Roig
Impact of prematurity on rabbit lung development: a key factor for mimicking chronic neonatal lung disease
Matteo Storti (Parma, Italy), Francesca Ricci, Costanza Casiraghi, Chiara Catozzi, Francesca Ravanetti, Luisa Ragonieri, Roberta Ciccinarra, Matteo Zoboli, Gino Villetti, Maurizio Civelli, Fabrizio Salomone, Barbara Montanini, Simone Ottonello

Diagnosis of Primary Ciliary Dyskinesia: a multi-center experience
Rim Hjeij (Münster, Germany), Sandra Cindric, Heike Olbrich, Petra Pennekamp, Niki T. Loges, Gerard W. Dougherty, Julia Wallmeier, Johanna Raidt, Heymut Omran

Arterial remodelling in patients with idiopathic pulmonary fibrosis (IPF) and the possible role of endothelial to mesenchymal transition (EndMT)
Archana Gaikwad (Launceston (TAS), Australia), Wenyiing Lu, Suraaj Dey, Prem Bhattachar, Collin Chia, Josie Larby, Greg Haug, Stephen Myers, Samuel James Brake, Jade Jaffar, Glen Philip Westall, Gurpreet Kaur Singhera, Tillie-Louise Hackett, James Markos, Mathew Suji Eapen, Sukhwinder Singh Sohal

Late Breaking Abstract - Transcriptional response to RSV in asthma primary bronchial epithelial cells: are the basal cells responsible for the reduced NF-kB response?
Aurore Gay (Groningen, Netherlands), Marijn Berg, Orestes Carpaij, Uilke Brouwer, Djoke Van Gosliga, Hananeh Ailee, Bart Lambrecht, Maarten Van Den Berge, Rudi Hendriks, Gerard Koppelman, Louis Bont, Martijn Nawijn

Symposium: Digital health in respiratory medicine: opportunities for everyone
Aims: To discuss the potential for implementation of e-Health/m-Health technologies in routine respiratory medicine; to explain novel methods for telemonitoring, telerehabilitation, use of artificial intelligence technologies and m-Health for different groups of respiratory patients; to identify the main challenges for adoption and implementation of e-Health/m-Health technologies in clinical practice; to provide an update on developments in digital technology and demonstrate its use in clinical practice.

Disease(s): Paediatric respiratory diseases, Pulmonary vascular diseases, Sleep and breathing disorders
Method(s): General respiratory patient care, Imaging, Pulmonary rehabilitation
Tag(s): Clinical, Digital health

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

Chairs: Vitalii Poberezhets (Vinnytsia, Ukraine), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

14:45 Introduction
Dennis Falzon (Genève, Switzerland)

14:50 Artificial intelligence in the clinic: possible roles for pulmonary rehabilitation tests
Wim Janssens (Leuven, Belgium)

15:05 The World Health Organization actions on digital health for tuberculosis: perspectives for respiratory medicine
Dennis Falzon (Genève, Switzerland)

15:20 Telerehabilitation and telemonitoring of pulmonary patients
Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom)

15:35 Behavioural changes of patients and health professionals in the digital era
Marieke Verkleij (Amsterdam, Netherlands)

15:50 Discussion and Q&A
All Speakers

State of the art session: Respiratory infections
Emerging challenges and opportunities in respiratory infections
Aims: To review the challenges and opportunities in respiratory infections, including antibiotics for pneumonia, bronchiectasis, antibiotic resistance and challenges for the upcoming decade; to discuss the available evidence and more recent recommendations regarding treatment and prevention of tuberculosis (TB).
Symposium: Diagnostic and therapeutic advances in mesothelioma care

Aims: To describe the latest achievements in diagnosis and treatment of pleural mesothelioma in light of the recent application of artificial intelligence for medical diagnosis and care.

Disease(s): Thoracic oncology
Method(s): Endoscopy and interventional pulmonology  Epidemiology  Surgery
Tag(s): Clinical, Digital health
Target audience: Adult pulmonologist/Clinician, Medical Student, Nurse, Respiratory critical care physician, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon
Chairs: Federica Meloni (Pavia (PV), Italy), Torsten Gerriet Blum (Berlin, Germany)

14:45  Introduction  

14:50  Artificial intelligence in diagnosis of mesothelioma  
Françoise Galateau-Salle (Lyon, France)

15:05  Malignant mesothelioma: new treatment advances, including targeted therapies  
Jens Soerensen (Copenhagen, Denmark)

15:20  Intrathoracic hyperthermic chemotherapy: facts and fables  
Till Markowiak (Regensburg, Germany)

15:35  Surgery in the era of immune and targeted therapy  
Isabelle Opitz (Zurich, Switzerland)

15:50  Discussion and Q&A  
All Speakers
### Studio Paris  
**Session 140  14:45 - 16:15**

**Lungs on fire: LoF Pulmonary vascular diseases?**

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

**Disease(s):** Pulmonary vascular diseases, Respiratory infections

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Radiologist, Respiratory critical care physician, Medical Student

**Chairs:** Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France), Sheila Ramjug (Altrincham, United Kingdom)

**Discussants:** Luke Howard (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:45</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>14:50</td>
<td>Presentation of cases by the session facilitator</td>
<td>Luke Howard (London, United Kingdom)</td>
</tr>
<tr>
<td></td>
<td>Case 1 - Author: Elif Agaoglu, United Kingdom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case 2 - Author: Shweta Anand, India</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case 3 - Author: Marta Alexandra Carvalho Da Silva, Portugal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case 4 - Author: Nemsi Ella, Tunisia</td>
<td></td>
</tr>
<tr>
<td>16:10</td>
<td>Session wrap-up</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 6  
**Session 141  14:45 - 16:15**

**Oral presentation: COVID-19 acute respiratory distress syndrome**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

This session includes the Best Abstract for Assembly 2 - Respiratory Intensive Care, entitled "Association between PEEP and VFD in COVID–19 ARDS"

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

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

**Tag(s):** COVID

**Chairs:** Christian Karagiannidis (Cologne, Germany), Ignacio Martin-Loeches (Dublin, Ireland)

<table>
<thead>
<tr>
<th>OA1256</th>
<th>Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1257</td>
<td>Use of low tidal volume ventilation (LTVV) has an association with outcome in COVID-19 patients</td>
</tr>
</tbody>
</table>
Association between PEEP and VFD in COVID–19 ARDS
Christel Valk (Amsterdam, Netherlands), Anissa Tsonas, Michela Botta, Lieuwe Bos, Janesh Pillay, Ary Serpa Neto, Marcus Schultz, Frederique Paulus

Use of neuromuscular blocking agents in mechanically ventilated patients with COVID-19: A propensity score analysis
Gianluigi Li Bassi (Brisbane, Australia), Kristen Gibbons, Jacky Suen, Heidi Dalton, Nicole White, Amanda Corley, Samuel Hinton, Simon Forsyth, John Laffey, Daniel Brodie, Aidan Burrell, Eddy Fan, Robert Bartlett, Antoni Torres, Davide Chiumello, Alyaa Elhazmi, Carol Hodgson, Shingo Ichiba, Carlos Luna, Srinivas Murthy, Alistair Nichol, Pauline Yeung Ng, Mauro Panigada, John Fraser

Ventilation management and clinical outcomes in invasively ventilated patients with COVID-19 from CIBERESUCICOVID study
Antoni Torres Marti (Barcelona, Spain)

Impaired ventilation is not independently associated with 28-day mortality in coronavirus disease 2019 (COVID-19) acute respiratory distress syndrome (ARDS)
Luis Fernando Morales Quinteros (Barcelona, Spain), Ary Serpa Neto, Antonio Artigas, Lluis Blanch, Michella Botta, David A Kaufman, Marcus J Schultz, Anissa Tsonas, Frederique Paulus, Lieuwe D Bos

Associations of BMI with ventilation management and outcomes in COVID-19 ARDS patients
Renee Schavemaker (Amsterdam, Netherlands), Marcus Schultz, Wim Lagrand, Eline Van Slobbe–bijlsma, Ary Serpa Neto, Frederique Paulus

Prone positioning in patients with COVID-19 under invasive mechanical ventilation and acute respiratory distress syndrome: a multicenter cohort study
Marieta Cabral Amaral Cunha (São Paulo, Brazil), Rodrigo Della Méa Plentz, Guadalupe Nery De Sant’Anna, Adriana Claudia Lunardi, Larissa Padrão Isensee, Rafaela Fagundes Xavier, Jociane Schardong, Natiele Camponogara Righi, Juliana Carvalho Ferreira, Celso Ricardo Fernandes Carvalho

Effect of fully-automated vs conventional ventilation on mechanical power of ventilation in COVID–19 ARDS patients
Laura A. Buiteman-Kruizinga (Delft, Netherlands), Hassan E. Mkadmi, Ary Serpa Neto, Michela Botta, Marcus J. Schultz, Frederique Paulus, Pim L.J. Van Der Heiden

Late Breaking Abstract - Tocilizumab (T) plus pembrolizumab (P) in patients (pts) with Covid-19 pneumonia: COPERNICO
Pilar Vizcarra (Madrid, Spain), Matilde Sanchez, José Manuel Pérez-García, Maria Gion, Maria Pilar Martíalay, Javier Taboada, Sergio De La Torre, Miguel Sampayo-Cordero, Andrea Malfettone, Antonio llombart-Cussac, Javier Cortés

Discussion
All Speakers

15:30-16:15
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:20</td>
<td>Relationship between sleep apnoea and cancer</td>
<td>Miguel Angel Martinez Garcia (Valencia, Spain)</td>
<td>1274</td>
</tr>
<tr>
<td>16:35</td>
<td>Update on the management of parapneumonic pleural effusions</td>
<td>Lisete Teixeira (São Paulo, Brazil)</td>
<td>1275</td>
</tr>
<tr>
<td>16:50</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>1276</td>
</tr>
<tr>
<td>17:03</td>
<td>Bronchoscopy in the COVID-19 era</td>
<td>Fernando António Teixeira Guedes Rodrigues (Luxembourg, Luxembourg)</td>
<td>1277</td>
</tr>
<tr>
<td>17:18</td>
<td>Acute management of COVID-19</td>
<td>Francisco Arancibia Hernandez (Santiago de Chile, Chile)</td>
<td>1278</td>
</tr>
<tr>
<td>17:33</td>
<td>Pulmonary rehabilitation after COVID-19</td>
<td>Vinicius Zacarias Maldaner Da Silva (Brasilia (DF), Brazil)</td>
<td>1279</td>
</tr>
<tr>
<td>17:48</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>1280</td>
</tr>
</tbody>
</table>

**Session 144**

**Breakout room: Symposium, Digital health in respiratory medicine: opportunities for everyone**

**Chairs:** Carla Ribeiro (Vila Nova de Gaia, Portugal), Wim Janssens (Leuven, Belgium), Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Marieke R. Verkleij (Amsterdam, Netherlands), Dennis Falzon (Genève, Switzerland)

**Session 145**

**Breakout room: Symposium, State of the art session, Respiratory infections**

**Chairs:** Flávia Fonseca Fernandes (Brasília, Brazil), Amelia Shoemark (Dundee (Angus), United Kingdom), Michal Shteinberg (Haifa, Israel), Cécile Magis-Escurra (Nijmegen, Netherlands), Michael S Niederman (New York, United States of America)

**Session 146**

**Breakout room: Symposium, Diagnostic and therapeutic advances in mesothelioma care**

**Chairs:** Lucia Carolina Viola Muñoz (Bogotá, Colombia), Françoise Galateau-Salle (Lyon, France), Jens Sorensen (Copenhagen, Denmark), Till Markowiak (Regensburg, Germany), Isabelle Opitz (Zurich, Switzerland)

**Session 147**

**Breakout room: Hot topics, Environment, air pollution, health and respiratory disease**

**Chairs:** Justine Devulder (London, United Kingdom), Barbara Hoffmann (Düsseldorf, Germany), Silvia Carraro (Padova (PD), Italy), Ana M. Vicedo-Cabrera (Bern, Switzerland), Omar S. Usmani (London, United Kingdom)

**Session 148**

**Breakout room: Lungs on fire: LoF Pulmonary vascular diseases?**

**Chairs:** Alguili Elsheikh (Basildon, United Kingdom), Luke Howard (London, United Kingdom)

**Session 149**

**Oral presentation: Deep phenotyping of obstructive diseases for precision medicine**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

**Disease(s):** Airway diseases

**Method(s):** Endoscopy and interventional pulmonology General respiratory patient care Cell and molecular biology Imaging Pulmonary function testing Physiology Public health

**Chairs:** Florence Schleich (Liège, Belgium), Guy Brusselle (Ghent, Belgium)

**OA1281 Introduction**
Neutrophilic inflammation in sputum does not define a clinical distinct asthma phenotype in ATLANTIS
Pauline Kuks (Groningen, Netherlands), Tessa Kole, Monica Kraft, Salman Siddiqui, Leonardo Fabbri, Klaus Rabe, Gabriele Nicolini, Alberto Papi, Christopher Brightling, Dave Singh, Nazanin Zounemat-Kermani, Fan Chung, Ian Adcock, Huib Kerstjens, Maarten Van Den Berge

Association between functional small airways disease and 3-year change in emphysema in the SPIROMICS cohort
Wassim Labaki (Ann Arbor, United States of America), Charles Hatt, Alexander Bell, Craig Galban, Ella Kazerooni, Susan Murray, Jeffrey Curtis, Fernando Martinez, Igor Barjaktarevic, R. Graham Barr, Russell Bowler, Alejandro Comellas, Christopher Cooper, David Couper, Gerard Criner, Mark Dransfield, Nadia Hansel, Eric Hoffman, Richard Kanner, Jerry Krishman, Victor Ortega, Robert Paine Iii, Prescott Woodruff, Meilan Han

Elastic principal graphs for clinical trajectory analysis in COPD: a COPDGene study
Alexander Bell (Ann Arbor, United States of America), Sundaresh Ram, Wassim Labaki, Susan Murray, Ella Kazerooni, Stefanie Galbán, Fernando Martinez, Charles Hatt, Evgeny Mirkes, Andrei Zinovyev, Alexander Gorban, Meilan Han, Craig Galbán

Identification of distinct trajectories of FEV1 progression in the ECLIPSE cohort
Sarah Ronnow (Herlev, Denmark), Joseph P.M. Blair, Jannie M.B. Sand, Bruce E. Miller, Ruth Tal-Singer, Jørgen Vestbo, Morten A. Karsdal, Diana J. Leeming

Salivary microbiota composition is associated with severe exacerbations
Sara Mele-Dias (Ilhavo, Portugal), Carla Valente, Lília Andrade, Alda Marques, Ana Sousa

Exhaled breath analyses in bronchial thermoplasty for severe asthma
Pieta Wijsman (Amsterdam, Netherlands), Paul Brinkman, Annika Goorsenberg, Lieuwe Bos, Julia D’Hooghe, Els Weersink, Anke-Hilse Maitland-Van Der Zee, Jouke Annema, Peter Bonta

Quantification of inflammatory cytokines in exhaled breath particles following segmental and inhalation endotoxin challenge of healthy volunteers
Olaf Holz (Hannover, Germany), Saskia Carstensen, Meike Müller, Anna-Carin Olin, Jens M. Hohlfeld

Treatable traits in the NOVELTY study: prevalence, patterns and relationship with physician-assessed severity
Alvar Agustí (Barcelona, Spain), Eleni Rapsomaniki, Richard Beasley, Rod Hughes, Hana Müllerová, Alberto Papi, Ian D Pavord, Rosa Faner

The carnitine pathway is dysregulated in asthma in an oral corticosteroid-independent mechanism
Craig Wheelock (Stockholm, Sweden), Stacey Reinke, Shama Naz, Nazanin Kermani, Romanas Chaleckis, Johan Kolmert, Marika Ström, Åsa Wheelock, Ratko Djukanovic, Fan Chung, Ian Adcock, Sven-Erik Dahlen, . Ubipred Study Group

Late Breaking Abstract - Performance of artificial intelligence in determining the intensity of abnormal breath sounds in asthma patients.
Tomasz Grzywalski (Swarzedz, Poland), Adam Maciaszek, Krzysztof Szarzyński, Honorata Hafke-Dys, Jędrzej Kociński, Barbara Kuźniar-Kamińska

Discussion
All Speakers

Channel 3  Session 150  16:30 - 18:00

Oral presentation: Best of paediatric physiology and sleep research

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Sleep and breathing disorders  Airway diseases

Method(s): Imaging  Epidemiology  Public health  Pulmonary function testing  Physiology

Chairs: Refika Hamutcu Ersu (Ottawa, Canada), Enrico Lombardi (Florence, Italy)

OAL293 Introduction

Infant lung function and physical activity in pregnancy
Hrefna Katrín Gudmundsdóttir (Oslo, Norway), Oda C. L. Carlsen, Karen Eline Stensby Bains, Martin Färöd, Kai-Håkon Carlsen, Guttorm Haugen, Christine M. Jonassen, Marissa Leblanc, Björn Nordlund, Eva Maria Rehbinder, Håvard O. Skjerven, Anne Cathrine Staff, Riyas Vettukattil, Karin C. Lodrup Carlsen

OAL294 Impulse oscillometry findings compared to spirometry in patients with neuromuscular disorders
Ji Soo Park (Seoul, Republic of Korea), Jihiye Kim, Min Jung Kim, Yun Jung Choi, Jong-Hee Chae, Dong In Suh
**Fluctuation analysis of FEV1 in children and adolescents with controlled asthma**
Sotirios Fouzas (Patras, Greece), Eirini Sofia Frima, Dimos Gidaris, Nikolaos Karantaglis, Grigorios Chatziparasidis, Ilias Theodorakopoulos, Michael B Anthracopoulos, Urs Frey

**Infant tidal flow-volume parameters and arousal state**
Martin Färdis (Solna, Sweden), Karen Eline Stensby Bains, Hrefna Katrin Gudmundsdóttir, Catarina Almqvist, Kai-Håkon Carlsten, Gunilla Hedlin, Björn Nordlund, Cilla Söderhäll, Håvrd Ove Skjerven, Riyas Vettukattil, Karin Cecilia Lødrup Carlsten

**Low- and high-attenuation lung volume in quantitative chest CT in children**
Athanasios G. Kaditis (Athens, Greece), Dimitrios Moutafidis, Maria Gavra, Sotirios Golfinopoulos, Antonios Kattamis, George Chrousos, Christina Kanaka-Gantenbein

**Effects of the COVID-19 Lockdown on Sleep Duration in Children and Adolescents: A Survey Across Different Continents**
Athanasios G. Kaditis (Athens, Greece), Adrienne Ohler, Alex Gileles-Hillel, Shoham Choshen-Hillel, David Gozal, Oliviero Bruni, Secil Aydinoz, Rene Cortese, Leila Kheirandish-Gozal

**Later lung function in birthweight discordant monozygotic twins**
Yasmin Salem Mahmoud (Bern, Switzerland), C. Corin Willers, Sofia Amylidi-Mohr, Anne-Christianne Kentgens, Philipp Latzin, Luigi Raio, Sophie Yammine

**Spirometry forced expiratory time is driven by central airway obstruction in asthmatic children**
Nicole Beydon (Paris, France), Florence Coquelin, Marc Koskas

**Novel indices to improve the diagnostic ability of nocturnal oximetry in children with OSA**
Athanasios G. Kaditis (Athens, Greece), C. Corin Willers, Sofia Amylidi-Mohr, Anne-Christianne Kentgens, Philipp Latzin, Luigi Raio, Sophie Yammine

**Late Breaking Abstract - Pulmonary function in children and adolescents after COVID-19**
Anne Schlegtendal (Bochum, Germany), Leona Knoke, Christoph Maier, Thomas Lücke, Folke Brinkmann

**Introduction**

**The bronchiectasis ‘bacteriophagome’**
Micheál Mac Aogáin (Singapore, Singapore), Fransiskus Xaverius Ivan, Tavleen Jaggi, Holly R Keir, Alison J Dicker, Albert Lim Yick Hou, Mau Ern Poh, Martina Oriano, Mariko Siyue Koh, Ong Thun How, Augustine Tee, Teck Boon Low, John Arputhan, Abisheganaden, Stefano Aliberti, Francesco Blasi, James D Chalmers, Sanjay H Chotirmall

**Characterisation of eosinophilic bronchiectasis: A European multicohort study**
Amelia Shoemark (Dundee, United Kingdom), Michal Shteinberg, Anthony De Soya, Charles Haworth, Hollian Richardson, Lida Peren, Alison Dicker, Pieter C Goeminne, Erinn Cant, Eva Polverino, Josje Altenburg, Holly R Keir, Michael Loevinger, Francesco Blasi, Tobias Welte, Oriol Sibila, Stefano Aliberti, James D Chalmers

**The microbiology of stable bronchiectasis: data from the EMBARC bronchiectasis registry**

**Changes in sputum bacterial density in people with bronchiectasis: BRONCH UK Study data**
Zina Alfahl (Belfast, United Kingdom), Gisli G. Einarsson, Katherine O’Neill, Deirdre F. Gilpin, J. Stuart Elborn, Kathryn Ferguson, Adam Hill, Michael R. Loevinger, Mary Carroll, Timothy Gatheral, Anthony De Soya, James Chalmers, Christopher Johnson, John R Hurst, Jeremy Brown, Judy M. Bradley, Michael M. Tunney
<table>
<thead>
<tr>
<th>Abstract ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1310</td>
<td>Sputum neutrophil elastase and inhaled antibiotic response in bronchiectasis: a post-hoc analysis of the ORBIT-4 trial</td>
<td>Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Hollian Richardson, Thomas Pembbridge, Yonghua Gao, Pieter C Goeminne, Charles S Haworth, James D Chalmers</td>
</tr>
<tr>
<td>OA1311</td>
<td>Mapping inflammatory endotypes of bronchiectasis associated with impaired mucociliary clearance</td>
<td>Mathieu Bottier (Dundee, United Kingdom), Erin Cant, Lilia Delgado, Diane M Cassidy, Yan Hui Giam, Alexandria Smith, Hollian Richardson, Alison J Dicker, Jeffrey T J Huang, Holly R Keir, Lidia Perea, Simon Finch, Stefano Aliberti, Oriol Sibila, James D Chalmers, Amelia Shoemark</td>
</tr>
<tr>
<td>OA1312</td>
<td>Inhaled corticosteroids use in patients with bronchiectasis: Data from the EMBARC registry</td>
<td>Pieter Goeminne (Bornem, Belgium), Eva Polverino, James D. Chalmers, Stefano Aliberti, Charles Haworth, Francesco Blasi, Wim Boersma, Anthony De Soyza, Katerina Dimakou, Stuart Elborn, Michael Loebinger, Antoni Torres, Michal Shteineberg, Tobias Welte, Montserrat Vendrell, Felix Ringhsausen, Rosario Menendez, Amelia Shoemark, Pierre Regis Burgel, Pieter Goeminne</td>
</tr>
<tr>
<td>OA1313</td>
<td>Salivary proinflammatory cytokines and airway bacterial infection in Bronchiectasis</td>
<td>Lidia Perea Soriano (Barcelona, Spain), Rosa Faner, Belen Solarat, Alvar Agusti, Oriol Sibila</td>
</tr>
<tr>
<td>OA1314</td>
<td>Immunometabolic markers and the sputum microbiome in bronchiectasis</td>
<td>Mathieu Bottier (Dundee, United Kingdom), Hollian Richardson, Alexandria Smith, Holly R. Keir, Diane Cassidy, Simon Finch, Stefano Aliberti, Oriol Sibila, Amelia Shoemark, James D. Chalmers</td>
</tr>
<tr>
<td>OA1315</td>
<td>Late Breaking Abstract - The respiratory tract of patients with antibody deficiency on immunoglobulin replacement is characterised by inflammation and dysbiosis despite adequate levels of sputum IgG</td>
<td>Anna Schnell (Bern, Switzerland), David M. Lowe, Stefanie Graeter, Mehmet Davrandi, Siobhan O. Burns, Alexander Schaub, Moritz Saxenhofer, Maria Hauswald, Carolin Witte, Clara Leboreiro, Fernando Moreira, Irina Irińcheevea, Ilka Schulze, Cedric Vonarburg, Annette Feussner</td>
</tr>
<tr>
<td>OA1316</td>
<td>Discussion</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Channel 5**  
**Session 152**  
**16:30 - 18:00**  
**Oral presentation: New evidence from longitudinal asthma cohorts and other key studies**  
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.  
**Disease(s):** Airway diseases  
**Methods:** Epidemiology, General respiratory patient care, Public health  
**Chairs:** Guy Marks (Sydney (NSW), Australia), Vanessa Garcia-Larsen (Baltimore, United States of America)  

<table>
<thead>
<tr>
<th>Abstract ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1317</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>OA1319</td>
<td>Do chronic obstructive lung diseases increase long-term mortality in Helsinki area - An Epilung study</td>
<td>Juuso Jalasto (Helsinki, Finland), Paula Kauppi, Ritva Luukkonen, Åri Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Bo Lundbäck, Anssi Sovijärvi, Päivi Piirilä</td>
</tr>
<tr>
<td>OA1320</td>
<td>Father's prepuberty overweight and adult lung function and height in future sons</td>
<td>Marianne Lonnebotn (Bergen, Norway), Lucia Calciano, Michael Abramson, Bryndís Benediktsdóttir, Lennart Bråbeck, Karl A. Franklin, Mathias Holm, Nils Oskar Jögi, Ane Johanes, Jorunn Kjrkeleit, Andrei Malinovskyi, Raul Godoy Mayoral, Antonio Pereira-Vega, Vivi Schlünsen, Shyamali Dharmage, Simone Accordini, Francisco Gómez Real, Cecilie Svanes</td>
</tr>
<tr>
<td>OA1321</td>
<td>Early life risk factors for asthma from childhood until age 28 years</td>
<td>Linnéa Almqvist (Boden, Sweden), Martin Andersson, Helena Backman, Eva Rönmark, Linnea Hedman</td>
</tr>
<tr>
<td>OA1322</td>
<td>Urinary caffeine and caffeine metabolites and lung function in a nationwide study of U.S. adults</td>
<td>Yuch-Ying Han (Pittsburgh, United States of America), Erick Forno, Juan Celedon</td>
</tr>
</tbody>
</table>
**Body mass index trajectories from childhood to middle age and related incidence, persistence and relapse of asthma from 43 to 53 years of age: a longitudinal cohort study**

Gulshan Ali (Melbourne, Australia), Adrian Lowe, Jennifer Perret, E. Haydn Walters, Caroline Lodge, David Johns, Alan James, Bircan Erbas, Garun Hamilton, Gayan Bowatte, Richard Wood-Baker, Michael Abramson, Dinh Bui, Shyamali Dharmage

**Risk factors associated with severe COVID-19 in asthma. A report from the Swedish National Airway Register**


**The impact of ethnicity on disease presentation and control in severe asthma**

John Busby (Belfast, United Kingdom), Liam G Heaney, Thomas Brown, Rekha Chaudhuri, Paddy Dennison, Robin Gore, David J Jackson, Adel H Mansur, Andrew Menzies-Gow, Simon Message, Rob Niven, Mitesh Patel, David Price, Salman Siddiqui, Robert Stone, Paul Pfeffer

**Assessing the impact of corticosteroids on bone health in people with asthma: a systematic review and meta-analysis**

Christos Chalitsios (Nottingham, United Kingdom), Dominick Shaw, Tricia Mckeever

---

**16:30-17:15**

**INDUSTRY SKILLS LAB WORKSHOP**

**See Page 1**

**Studio Amsterdam**  
**Session 154**  
**16:30 - 18:00**

**Symposium Amsterdam:** Digital health meets sleep breathing disorders

**Aims:** To provide a state-of-the-art overview of the growing role of digital health and telemedicine in the management of patients with different sleep breathing disorders; to describe the recent development of new technologies for diagnosis, treatment and follow-up of patients with sleep breathing disorders; to describe the optimal use of these new technologies and explain their cost-effectiveness; to describe the current and possible future roles of consumer technologies for patients with sleep breathing disorders; to explain the possibility of analysing big data derived using the telemedicine approach and to identify possible opportunities and risks.

**Disease(s):** Paediatric respiratory diseases  
Respiratory critical care  
Sleep and breathing disorders

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

**Tag(s):** Clinical, Digital health

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs:** Vitalii Poberezhets (Vinnystya, Ukraine), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

| 16:30 | Introduction |  
| 16:35 | New technologies for diagnosis of obstructive sleep apnoea: the way to go?  
Marie Bruyneel (Brussels, Belgium) |  
| 16:50 | Telemedicine for treatment and follow-up of patients with sleep breathing disorders  
Jean-Louis Pépin (Grenoble, France) |  
| 17:05 | Evaluation of sleepiness: new available tools or still searching for the Holy Grail?  
Mark W. Elliott (Leeds (West Yorkshire), United Kingdom) |  
| 17:20 | Big data analysis in telemedicine in sleep: the European status, opportunities and pitfalls  
Maria Bonsignore (Palermo, Italy) |  
| 17:35 | Discussion and Q&A  
All Speakers |
**Studio Barcelona**  
**Session 155**  
16:30 - 18:00

**Grand round: Imaging grand round**  
Imaging of interstitial lung diseases in the era of digital health

**Aims:** To provide an update on the latest advances in interstitial lung disease (ILD) imaging with a focus on diagnosis and prevention of misdiagnosis; to provide an overview of multidisciplinary diagnosis of ILD and how imaging is integrated into this process in the era of digital health.

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

**Method(s):** Epidemiology, Imaging, Physiology, Public health, Transplantation

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic surgeon

**Chairs:** Daiana Stolz (Basel, Switzerland), Tobias Welte (Hannover, Germany)

**16:30**  
**Introduction**

**16:35**  
**Imaging of idiopathic pulmonary fibrosis based on case presentations: guidelines, pitfalls and prevention of misdiagnosis**  
Lucio Calandriello (Rome, Italy)

**16:55**  
**Hypersensitivity pneumonitis: case-based imaging update**  
Sujal Desai (London, United Kingdom)

**17:15**  
**Multidisciplinary diagnosis of ILD: the radiologist’s perspective. Case presentations**  
Simon Walsh (London, United Kingdom)

**17:35**  
**Case-based imaging of connective tissue disease-related lung disease**  
Anna Kerpel-Fronius (Budapest, Hungary)

**17:55**  
**Session wrap-up**

**Studio London**  
**Session 156**  
16:30 - 18:00

**Symposium: Lung graft allocation and monitoring in the 21st century**

**Aims:** To discuss lung graft allocation and monitoring in the 21st century.

**Disease(s):** Thoracic oncology

**Method(s):** Transplantation

**Tag(s):** Clinical, Digital health

**Target audience:** Thoracic oncologist, Thoracic surgeon

**Chairs:** Federica Meloni (Pavia (PV), Italy), Torsten Gerriet Blum (Berlin, Germany)

**16:30**  
**Introduction**

**16:35**  
**Identification of lung transplant candidates, stratification of risk, lung allocation and quality control in Europe using real-time decision-making and big data: lessons learned and future perspectives**  
Jens Gottlieb (Hannover, Germany)

**16:50**  
**The lung in a box: ex vivo monitoring of donor lungs and clinical implications for lung preservation, repair and utilisation**  
Chandima Divithotawela (Gaythorne (QLD), Australia)

**17:05**  
**Outcomes of telehealth care for lung transplant recipients**  
Cecilia Chaparro (Toronto (ON), Canada)

**17:20**  
**Digital imaging of small airways pathology after lung transplantation: past, present and future**  
Johnny Verschakelen (Leuven, Belgium)

**17:35**  
**Discussion and Q&A**  
All Speakers

**Studio Munich**  
**Session 157**  
16:30 - 18:00

**Journal session: Highlights from the JAMA Network on idiopathic pulmonary fibrosis, chronic obstructive pulmonary disease and lung cancer screening**

A joint ERS/Journal of the American Medical Association (JAMA) session
Aims: to provide an update on antibiotic therapy for idiopathic pulmonary fibrosis (IPF), management of refractory dyspnoea in patients with severe chronic obstructive pulmonary disease (COPD) and patient selection strategies for lung cancer screening with low-dose computed tomography (CT).

Disease(s): Airway diseases, Interstitial lung diseases, Thoracic oncology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

Chairs: Richard Costello (Dublin 9, Ireland), Raquel Duarte (Porto, Portugal)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
<td>George O'Connor (Boston, United States of America)</td>
</tr>
<tr>
<td>16:35</td>
<td>Role of the microbiome and antibiotic therapy in IPF</td>
<td>Andrew Wilson (Norwich (Norfolk), United Kingdom)</td>
</tr>
<tr>
<td>16:50</td>
<td>Management of refractory dyspnoea in COPD</td>
<td>Daisy J.A. Janssen (Horn, Netherlands)</td>
</tr>
<tr>
<td>17:05</td>
<td>Update on lung cancer screening with low-dose CT</td>
<td>Rafael Meza (Ann Arbor, United States of America)</td>
</tr>
<tr>
<td>17:20</td>
<td>Pulmonary embolism in patients with COPD</td>
<td>Francis Couturaud (Brest, France)</td>
</tr>
<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
<tr>
<td>17:55</td>
<td>Conclusions</td>
<td>George O'Connor (Boston, United States of America)</td>
</tr>
</tbody>
</table>

Studio Paris  
Session 158  
16:30 - 18:00

Respiratory medicine meets other disciplines: Pulmonary embolism: controversies in management A joint ESC/ERS session

Aims: To describe the interaction and involvement of cardiology and pulmonology specialities in the care of patients with pulmonary embolism or pulmonary hypertension. The novelties presented here are moving the field forward beyond the current guidelines, which were jointly developed by the European Society of Cardiology and European Respiratory Society.

Disease(s): Pulmonary vascular diseases

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Radiologist

Chairs: Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France), Sheila Ramjug (Altrincham, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>16:35</td>
<td>ESC/ERS position paper on optimal follow-up after acute pulmonary embolism</td>
<td>Erik Klok (Leiden, Netherlands)</td>
</tr>
<tr>
<td>16:50</td>
<td>Treatment and prevention of cancer-associated venous thromboembolism</td>
<td>Laurent Bertoletti (Saint Etienne Cedex, France)</td>
</tr>
<tr>
<td>17:05</td>
<td>Interventional treatment of pulmonary embolism: catheter-delivered local thrombolysis versus reduced-dose systemic thrombolysis</td>
<td>Luke Howard (London, United Kingdom)</td>
</tr>
<tr>
<td>17:20</td>
<td>Can right ventricle imaging improve risk stratification in pulmonary arterial hypertension?</td>
<td>Frances S. De Man (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>
Oral presentation: Early manifestations of chronic respiratory disease: zooming in at the epithelial barrier

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** Cell and molecular biology, Epidemiology, Imaging

**Chairs:** H. Irene Heijink (Groningen, Netherlands), Sabine Bartel (Groningen, Netherlands)

---

**OA1364 Introduction**

**OA1365** Microfluidic single cell analysis of microRNA levels in small airway epithelial cells and fibroblasts from COPD patients

- Vanessa Ho (London, United Kingdom), Keith Willison, Jonathan Baker, David Klug, Peter Barnes, Louise Donnelly

**OA1366** Cell type eQTL deconvolution of bronchial epithelium through integration of single cell and bulk RNA-seq

- Cancan Qi (Groningen, Netherlands), Marijn Berg, Xiaojing Chu, Maarten Van Den Berge, Chengjian Xu, Gerard Koppelman, Martijn Nawijn, Yang Li

**OA1367** NETosis induced by Haemophilus Influenzae disrupts the lung epithelial barrier

- Lina Oqvist (Molndal, Sweden), Rebecca Riise, Cecilia Wingren, Helena Lindmark, Annika Wellner, Annika Astrand, Linda Yrlid

**OA1368** Visualising biodistribution and biokinetics of inhaled biologicals: application of light sheet imaging technology

- Giuseppe Ciccottosto (Parkville, Australia), Andrew Jarnicki, Robert O'Donoghue, Mun-Joo Chuei, Caitlin O'Brien, Gabriela Segal, Ellie Cho, Eva-Maria Hansbauer, Stefan Kling, Thomas Jaquin, Gabriele Matschiner, Shane Olwill, Gary P. Anderson

**OA1369** MicroRNA profiling in bronchial biopsies identifies altered expression in asthma and high levels of allergen-modulated epithelial microRNAs

- Jenny Calven (Gothenburg, Sweden), Jenny Calven, Christopher Mccrae, Carina Malmhäll, Kristina Johansson, Henric Olsson, Madeleine Radinger

**OA1370** Early transcriptional responses of bronchial epithelial cells following exposure to whole cigarette smoke

- Alen Faiz (Ultimo (NSW), Australia), Anne M. Van Der Does, Rashard M. Mahbub, Dennis K. Ninaber, Senani R. Mudiyaniselage, Wim Timens, Maarten Van Den Berge, Pieter S. Hiemstra

**OA1371** Dysregulation of ZFP36L1 and ZFP36L2 in severe asthma alters epithelial integrity and dampens genome-wide glucocorticoid responses

- Rocío Teresa Martinez-Nunez (London, United Kingdom), Jennifer Rynne, Elena Ortiz-Zapater, Manuela Plate, Rachel Chambers, Peter Howarth

**OA1372** Proteomics of fully differentiated bronchial epithelial cells derived from COPD or control shows no significant differences in susceptibility or response to influenza virus infection

- Misako Nakayama (Otsu, Japan), Juliane Merl-Pham, Hannah Busen, Anna Dmitrieva, Ashesh Chakraborty, Andrea Schanberger, Clemens Ruppert, Andreas Guenther, Jürgen Behr, Anne Hilgendorff, Stefanie Hauck, Heiko Adler, Claudia Alma Staab-Weijnitz

**OA1373** Aged alveolar epithelium contributes to inflammaging and reduced stem cell function in the lung

- Mareike Lehmann (München, Germany), Qiangjiang Hu, Yan Hu, Meshal Ansari, Ricardo Pineda, William Janssen, Fabian Theis, Herbert Schiller, Melanie Königshoff

**OA1374** Late Breaking Abstract - A multiomic micro- and macro-anatomical cell atlas of the human lungs and airways


---

**OA1375 Discussion**

All Speakers
<table>
<thead>
<tr>
<th>Studio Amsterdam</th>
<th>Session 161</th>
<th>18:00 - 18:15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Symposium, Digital health meets sleep breathing disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Carla Ribeiro (Vila Nova de Gaia, Portugal), Marie Bruyneel (Brussels, Belgium), Jean-Louis Pépin (Grenoble, France), Mark W. Elliott (Leeds (West Yorkshire), United Kingdom), Maria Bonsignore (Palermo, Italy)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio Barcelona</th>
<th>Session 162</th>
<th>18:00 - 18:15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Grand round, Imaging grand round</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Flávia Fonseca Fernandes (Brasília, Brazil), Lucio Calandriello (Rome, Italy), Sujal Desai (London, United Kingdom), Simon Walsh (London, United Kingdom), Anna Kerpel-Fronius (Budapest, Hungary)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio London</th>
<th>Session 163</th>
<th>18:00 - 18:15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Symposium, Lung graft allocation and monitoring in the 21st century</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Lucia Carolina Viola Muñoz (Bogotá, Colombia), Jens Gottlieb (Hannover, Germany), Chandima Divithotawela (Gaythorne (QLD), Australia), Cecilia Chaparro (Toronto (ON), Canada), Johny Verschakelen (Leuven, Belgium)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio Munich</th>
<th>Session 164</th>
<th>18:00 - 18:15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Journal session: Highlights from the JAMA Network on idiopathic pulmonary fibrosis, chronic obstructive pulmonary disease and lung cancer screening</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Justine Devulder (London, United Kingdom), George O'Connor (Boston, United States of America), Andrew Wilson (Norwich (Norfolk), United Kingdom), Daisy J.A. Janssen (Horn, Netherlands), Rafael Meza (Ann Arbor, United States of America), Francis Couturaud (Brest, France)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio Paris</th>
<th>Session 165</th>
<th>18:00 - 18:15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Respiratory medicine meets other disciplines, Pulmonary embolism: controversies in management</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Alguili Elsheikh (Basildon, United Kingdom), Erik Klok (Leiden, Netherlands), Laurent Bertoletti (Saint Etienne Cedex, France), Luke Howard (London, United Kingdom), Frances S. De Man (Amsterdam, Netherlands)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18:15-19:45
**INDUSTRY VIRTUAL SYMPOSUM** SEE PAGE 1

20:00-21:30
**INDUSTRY VIRTUAL SYMPOSUM** SEE PAGE 1
07:45-09:15
INDUSTRY VIRTUAL SYMPOSIUM
SEE PAGE 1

08:00-08:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1

09:00-09:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1

Channel 1
Session 184 09:30 - 10:45
Challenging clinical cases: CCC Respiratory critical care

Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussion among the case presenters and audience.

Disease(s): Respiratory critical care

Tag(s): Clinical

Target audience: Respiratory critical care physician, Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Paediatrician, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon, Radiologist, Medical Student

Chairs: Marieke L. Duiverman (Groningen, Netherlands), Christian Karagiannidis (Cologne, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>09:35</td>
<td>Painful bulge over the chest wall</td>
<td>Pranav Ajmera (Pune, India)</td>
</tr>
<tr>
<td>09:45</td>
<td>How to stop the bleed?</td>
<td>Titia P.E. Schaepman - Ruys (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>09:55</td>
<td>A complex case of respiratory failure secondary to an unusual lung pathological finding in a patient with COVID-19</td>
<td>Eleanor Manners (London, United Kingdom)</td>
</tr>
<tr>
<td>10:05</td>
<td>Cystic Lung Disease- Clinical and radiological details matter</td>
<td>Sivaraja Subramaniam (Thanjavur (Tamil Nadu), India)</td>
</tr>
<tr>
<td>10:15</td>
<td>Dyspnoea after radiofrequency cardiac ablation: Respiratory prospect</td>
<td>Muhamamd Zubair Nasim (Nottingham, United Kingdom)</td>
</tr>
<tr>
<td>10:25</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

Channel 2
Session 185 09:30 - 11:00
Oral presentation: Asthma treatment: clinical and translational science

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases

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

Chairs: Renaud Louis (Liège, Belgium), Paola Rogliani (Roma (RM), Italy)

<table>
<thead>
<tr>
<th>OA1482</th>
<th>Impact of asthma-associated genetic polymorphisms on the efficacy of house dust mite sublingual allergy immunotherapy in adults with allergic asthma</th>
<th>marianne witten (Hørsholm, Denmark), Ilka Hoof, Klaus Bønnelykke, Thomas Stranzl, Xingnan Li, Deborah A. Meyers, Eugene R. Bleecker, Peter S. Andersen</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1484</td>
<td>Effect of tezepelumab on exacerbation-related oral corticosteroid use in NAVIGATOR</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Andrew Menzies-Gow, Geoffrey Chupp, Christopher S Ambrose, Kamil Kmita, Jean-Pierre Llanos-Ackert, Gene Colice, Bill Cook</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1485</th>
<th>Bronchial smooth muscle of severe asthmatic patients decreases rhinovirus replication within the epithelium through a CCL-20/PKR/eIF2-a dependent pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pauline Esteves (PESSAC, France), Benoit Allard, Alexis Celle, Isabelle Dupin, Elise Maurat, Olga Ousova, Matthieu Thumereil, Hugue Begueret, Thierry Lassere, Roger Marthan, Pierre-Olivier Girotet, Patrick Berger, Thomas Trian</td>
</tr>
</tbody>
</table>

| OA1486 | Effect of bronchial thermoplasty on histopathological parameters in distinct asthma endotypes/phenotypes |
|--------|-------------------------------------------------------------------------------------------------
|        | Eleni Papakonstantinou (Basel, Switzerland), Triantafyllia Koletsia, Liang Zhou, Lei Fang, Michael Roth, Meropi Karakioulaki, Spasenija Savic, Leticia Grize, Michael Tamm, Daiana Stolz |

<table>
<thead>
<tr>
<th>OA1487</th>
<th>CAPTAIN: Effects of lung function at screening (FEV1 % predicted) as a continuous variable on treatment outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alberto Papi (Ferrara, Italy), Neil Barnes, Andrew Fowler, Huib Kerstjens, Edward Kerwin, David Mannino, Robert Nathan, Ian Pavord, Emilio Pizzichini, David Slade, Agne Zarankaite, John Oppenheimer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1488</th>
<th>COVID-19 risk and outcomes in adult asthmatics treated with biologics or systemic corticosteroids: nationwide real-world evidence.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adir Yochai (Haifa, Israel), Marc Humber, Walid Saliba</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1489</th>
<th>Evaluating contributions of mometasone (MF), indacaterol (IND) and glycopyrronium (GLY) to reduction of exacerbations in patients with inadequately controlled asthma: Results from the IRIDIUM study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada), Richard N Van Zyl-Smit, Huib A M Kerstjens, Jorge F Maspero, Motoi Hosoe, Ana-Maria Tanase, Abhijit Pethe, Peter D’Andrea, Dominic Brittain</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1490</th>
<th>Efficacy of tezepelumab in adolescents with severe, uncontrolled asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Elliot Israel, Geoffrey Chupp, Chris Ambrose, Bill Cook, Gillian Hunter, Jean-Pierre Llanos-Ackert, John Downie, Gene Colice</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1491</th>
<th>Late Breaking Abstract - The burden of intermittent oral corticosteroid use in asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heath Heatley (Singapore, Singapore), Trung Tran, Arnaud Bourdin, Andrew Menzies-Gow, David Jackson, Ekaterina Maslova, Derek Skinner, Victoria Carter, David Price</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1492</th>
<th>Late Breaking Abstract - Effects of tezepelumab on host epithelial tolerance to virus in patients with uncontrolled asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Asger Sverrild (Valby, Denmark), Samuel Cerps, Juan Nieto-Fontarigo, Sangeetha Ramu, Morten Hvidtfeldt, Jennifer Kearley, Janet M Griffiths, Jane R Parnes, Celeste Porsbjerg, Lena Uller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1493</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

### Channel 3 Session 186 09:30 - 11:00

**Oral presentation: Adult cystic fibrosis**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology  General respiratory patient care  Transplantation  Epidemiology

**Chairs:** Pierre-Régis Burgel (Paris, France), Barry Plant (Cork, Ireland)

<table>
<thead>
<tr>
<th>OA1494</th>
<th>Introduction</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>OA1495</th>
<th>Proteomic analysis uncovers distinct signatures of bacterial-viral coinfections in cystic fibrosis cells</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adrian Endres (Frankfurt am Main, Germany), Philipp Kasel, Helena Boland, Christian Hügel, Konstantinos Kalogeropoulos, Peter Braubach, Danny Jonigk, Michael Hogardt, Gernot Rohde, Ulrich Auf Dem Keller, Carla Bellinghausen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1496</th>
<th>Serine protease-dependent degradation of IL-6 by Pseudomonas aeruginosa in an in vitro model of bacterial-viral coinfection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adrian Endres (Frankfurt am Main, Germany), Helena Boland, Christian Hügel, Ralf Schubert, Peter Braubach, Danny Jonigk, Michael Hogardt, Gernot Rohde, Carla Bellinghausen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA1497</th>
<th>Frequency and phenotypical alterations of unconventional T cells in cystic fibrosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pauline Tossan (Tours, France), Sylvie Legue, Loïc Gonzalez, Thomas Flament, Julie Mankikian, Youen Jouan, Antoine Guillon, Mustapha Si-Tahar, Christophe Paget</td>
</tr>
</tbody>
</table>
Aspergillus pulmonary disease in cystic fibrosis (CF) patients: multicentre perspective observational study based on new diagnostic tests to evaluate the prognostic value on the CF disease

Silvia Bresci (Florence, Italy), Jessica Mencarini, Ersilia Vita Fiscarelli, Lisa Cariani, Giulia Linardos, Daniella Girelli, Martina Rossitto, Simona Pollini, Antonio Teri, Giovanni Taccetti, Alessandro Bartoloni

Chronic Pseudomonas aeruginosa lung infection, but not CFTR modulator therapy affects circulating regulatory T cells in an adult population with cystic fibrosis

Dirk Westhölter (Essen, Germany), Hendrik Beckert, Svenja Strassburg, Matthias Welsner, Sivagurunathan Sutharsan, Christian Taube, Sebastian Reuter

Could a 2-year mortality prediction model have prevented deaths from respiratory failure: a single UK centre experience

Kavita Dave (Milton Keynes (Buckinghamshire), United Kingdom), Rachel Dunk, Su Madge, Vicky Gerovasili, Anna Reed, Nicholas J Simmonds

Discussion
All Speakers

Channel 4 Session 187 09:30 - 11:00

Oral presentation: Nursing perspective during the COVID-19 pandemic

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases  Respiratory critical care
Method(s): General respiratory patient care  Public health  Respiratory intensive care  Pulmonary rehabilitation
Tag(s): COVID, Digital health

Chairs: Marco Clari (TORINO, Italy), Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom)

OA1502 Introduction

OA1503 Living with the risk of being infected: COPD patients' experiences during the coronavirus pandemic
Camilla Askov Mousing (Randers SØ, Denmark), Dorthe Sørensen

Lindsay Welch (Southampton, United Kingdom), Lindsay Welch, Nicola Roberts, Kate Lippiett, Emma Ray, Carol Kelly

OA1505 Awake proning in patients with COVID-19
Willemske Stilma (Amsterdam, Netherlands), Lieuwe Bos, Luigi Pisani, Marcus Schultz, Frederique Paulus

Alessandro Godono (Torino, Italy), Dario Gavetti, Marco Clari, Carmela Bongiorno, Enrico Pira, Maurizio Berardino

OA1507 The impact of the COVID-19 pandemic on Portuguese rehabilitation nurses
Miguel Padilha (Rio Tinto, Portugal), Rui Silva

OA1508 Virtual consultations as follow up on home oxygen therapy for patients with COPD: A patient perspective
hannah Schmidt (Odense, Denmark), Gunhild Tulinius, Helle Marie Christensen

OA1509 The SWISS Nurse; respiratory nursing care without any borders. An admission avoidance winter pressure initiative
Emma Rickards (St Helens (Merseyside), United Kingdom), Lisa Ascough, Sarah Sibley, Onnor Hampson, Elaine Gossage

OA1510 Nurse-led community care
Aisling Foot (Dublin 3, Ireland), Breda Cushen, Claire Lewis

OA1511 Late Breaking Abstract - Was our step-down virtual covid ward safe and effective?
David Jennings (Chichester (West Sussex), United Kingdom), Kate Hills, Julie Briscoe, Bethia Bradley

OA1512 Late Breaking Abstract - Promoting physical activity by the Respiratory Nurses
Sónia Maria Pereira Rocha (Esinhio, Portugal), Sónia Maria Pereira Rocha (Esinhio, Portugal), Maria Fernanda Rodrigues, Goredi Marques, Glória Maria Couto, Raquel Maria Marques, Maria João Cunha

OA1513 Discussion
All Speakers
**Oral presentation: Novel insights into the diagnosis, mechanism and treatment of malignant pleural disease**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology  Physiology  Endoscopy and interventional pulmonology

**Chairs:** Rachelle Asciak (Attard, Malta), Christian B. Laursen (Odense, Denmark)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1514</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>OA1515</td>
<td>In vitro discrimination between mesothelioma and lung cancer based on headspace volatile profiling</td>
<td>Eline Janssens (Edegem, Belgium), Zoë Mol, Lore Vandermeersch, Christophe Walgraeve, Jan Van Meerbeeck, Elly Marcq, Kevin Lamote</td>
</tr>
<tr>
<td>OA1516</td>
<td>Breath analysis allows to predict treatment response in malignant pleural mesothelioma patients.</td>
<td>Eline Schillebeeckx (Antwerpen, Belgium), Eline Janssens, Veerle Surmont, Kristiaan Nackaerts, Jan Van Meerbeeck, Kevin Lamote</td>
</tr>
<tr>
<td>OA1517</td>
<td>A novel proteomic technique to identify new diagnostic biomarkers for malignant pleural mesothelioma: a feasibility study.</td>
<td>Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote</td>
</tr>
<tr>
<td>OA1518</td>
<td>The role of monocyte chemotactic protein-1 (MCP-1) in the development of malignant pleural effusion</td>
<td>Fatih Tekin (ANKARA, Turkey), Deniz Koksal, Z.Gunnur Di̇kmen, Sevilay Karahan, Ridvan Bayler, Burcu Ancin, Erkan Di̇kmen, Devrim Akinci, Sevgen Onder</td>
</tr>
<tr>
<td>OA1519</td>
<td>The relationship between pleural effusion, neural respiratory drive and breathlessness – preliminary results from the SINE study</td>
<td>Parthipan Sivakumar (London, United Kingdom), Neeraj Shah, Georgios Kaltsakas, Nicholas Hart, Patrick Murphy, Liju Ahmed</td>
</tr>
<tr>
<td>OA1520</td>
<td>Intracavitary anaesthesia for medical thoracoscopy: a randomised trial</td>
<td>Maged Hassan (Alexandria, Egypt), Mohamed Gadallah, Moustafa Shaheen, Sahar Mourad, Ahmed Abdelhady</td>
</tr>
<tr>
<td>OA1521</td>
<td>Primary cilium modulates mesothelioma cell viability and 3D sphere formation.</td>
<td>Sotirios Zarogiannis (Larisa, Greece), Ourania Kotsiou, Rajesh Jagirdar, Erasmia Rouka, Eleanna Pitaraki, Konstantinos Gourgoulianis</td>
</tr>
<tr>
<td>OA1522</td>
<td>The frequency of BAP1 and MTAP loss in Benign Asbestos-associated Pleural Inflammation</td>
<td>Katie Ferguson (Glasgow, United Kingdom), Nicola Hyndman, Fiona Roberts, Kevin G Blyth</td>
</tr>
<tr>
<td>OA1523</td>
<td>Discussion</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Studio Amsterdam**

**Symposium: New technologies for the management of children with respiratory diseases**

**Aims:** To identify new sources of data (internet of things, environmental data, etc.) that are available and relevant for the management of respiratory diseases in children; to describe how these new big data are processed by different artificial intelligence methods; to explain how these new sources of data, processed by artificial intelligence, are leading to a new paradigm in the management of respiratory diseases in children; to describe the ethical issues associated with new digital-based management of respiratory diseases; to list the factors associated with the acceptance of digital-based management by families of children with respiratory diseases.

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

**Tag(s):** Clinical, Digital health

**Target audience:** Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Respiratory therapist, Journalist, Adult pulmonologist/Clinician

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td>1524</td>
</tr>
<tr>
<td>09:35</td>
<td>E-health and home monitoring: the views of patients and parents</td>
<td>Andreas Hager (, Sweden)</td>
</tr>
</tbody>
</table>
## Studio Barcelona  Session 190  09:30 - 11:00

### State of the art session: Interstitial lung diseases
**Novel insights into interstitial lung diseases in 2021**

**Aims:** To discuss novel insights into the field of interstitial lung diseases (ILDs), including areas where scientific and therapeutic changes are ongoing or task forces reports and guidelines are pending.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Pathologist, Patient, Radiologist, Scientist (basic, translational), Thoracic oncologist

**Chairs:** Katerina Antoniou (Heraklion, Greece), Carlos Robalo Cordeiro (Coimbra, Portugal), Tiago Alfaro (Coimbra, Portugal)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td></td>
<td>1531</td>
</tr>
<tr>
<td>09:35</td>
<td>Familial pulmonary fibrosis</td>
<td>Coline H. M. van Moorsel (Nieuwegein, Netherlands)</td>
<td>1532</td>
</tr>
<tr>
<td>09:50</td>
<td>What can ILD registries teach us?</td>
<td>Andreas Guenther (Gießen, Germany)</td>
<td>1533</td>
</tr>
<tr>
<td>10:05</td>
<td>Progressive fibrosing ILDs</td>
<td>Martin Kolb (Hamilton (ON), Canada)</td>
<td>1534</td>
</tr>
<tr>
<td>10:20</td>
<td>Langerhans cell histiocytosis: is it an ILD?</td>
<td>Abdellatif Tazi (Paris, France)</td>
<td>1535</td>
</tr>
<tr>
<td>10:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>1536</td>
</tr>
</tbody>
</table>

## Studio London  Session 191  09:30 - 11:00

### Symposium: Highlights on gender and respiratory health
**Implications for research, prevention and clinical management of respiratory diseases**

**Aims:** To discuss the epidemiology and impact of sex and gender on the main respiratory risk factors and diseases, specifically asthma, chronic obstructive pulmonary disease, lung cancer and smoking; to highlight the need to include gender issues in respiratory research and to address gender-specific approaches for prevention and clinical management of respiratory diseases and health policies.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs:** Martijn A. Spruit (Horn, Netherlands), Charlotte Suppli Ulrik (Virum, Denmark)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td></td>
<td>1537</td>
</tr>
</tbody>
</table>


---

**ERS Virtual International Congress 2021**

**MONDAY 06 SEPTEMBER, 2021**

**DETAILED PROGRAMME**

---

116

05.09.2021
Primary care session: Part I: restarting COPD care in the post-COVID era

Strategies to improve care of chronic obstructive pulmonary disease patients in the face of limitations and barriers in the post-COVID era

Aims: to provide an overview of and a discussion forum for important issues relating to the management of asthma and chronic obstructive pulmonary disease (COPD) after the COVID-19 pandemic; to present new approaches for managing patients in primary care during the COVID-19 pandemic; to invite feedback from the audience.

Disease(s): Airway diseases

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

Tag(s): Clinical, COVID, Digital health

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Patient

Chairs: Miguel Román Rodriguez (Palma De Mallorca, Spain), Hilary Pinnock (Edinburgh, United Kingdom), Marion Delcroix (Leuven, Belgium)

09:30 Introduction

09:35 Which are the best methods to manage COPD patients in the post-COVID era?
Noel Baxter (Glasgow, United Kingdom)

09:50 Are we selecting the right inhaler for the right COPD patient?
Janwillem W. H. Kocks (Groningen, Netherlands)

10:05 Should primary care physicians be monitoring eosinophils in COPD patients?
Núria Toledo Pons (Palma De Mallorca, Spain)

10:20 Discussion and Q&A
All Speakers

Oral presentation: Imaging

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases, Interstitial lung diseases

Method(s): Endoscopy and interventional pulmonology, Imaging, General respiratory patient care, Pulmonary function testing

Tag(s): COVID

Chairs: Bianka Forgo (Orebro, Sweden), Ruža Stevi (Beograd, Republic of Serbia)

OA1559 Introduction

OA1560 Chest CT manifestation in children who had Covid-19
Diana Rotaru-Cojocari (Chișinău, Republic of Moldova), Rodica Selevestru, Eugenia Criveanschi, Aliona Cotoman, Galina Gutu, Cristina Tomacinschi, Svetlana Sciucu
Deep learning architecture for the classification of COVID-19 and others pneumonias sources on lung CT imaging
Akshayaa Vaidyanathan (Liege, Belgium), Julien Guiot, Fadila Zerka, Louis Deprez, Denis Danthine, Fabio Bottari, Gregory Canivet, Philippe Lambin, Sean Walsh, Mariaelena Occhipinti, Paul Meunier, Wim Vos, Pierre Lovinfosse, Ralph T.H. Leijenaar

Chest CT signs of Aging Lung: incidence and impact on one-year mortality
Federica Maci (Foggia, Italy), Donato Lacedonia, Giulia Scioscia, Paolo Fuso, Pasquale Tondo, Annarita Depalo, Ernesto Giuffreda, Maria Pia Foschino Barbaro

Longitudinal structural changes using MDCT in patients with combined pulmonary fibrosis with emphysema
Ayako Shimada (Chiba, Japan), Naoko Kawata, Mitsuhiro Abe, Hirotaka Sato, Masaki Suzuki, Hajime Yokota, Shin Matsuoka, Hideaki Haneishi, Koichiro Tatsumi, Takuji Suzuki

Thoracic Radiological Sequelae after Coronavirus Infection: A Systematic Review
Christopher C. Huntley (Bromsgrove, United Kingdom), Ketan Patel, Shahnoor-E-Salam Bushra, Farah Mobeen, Peter S Burge, Alice M Turner, Gareth I Walters

Detection of the pulmonary extracellular matrix by bronchoscopic optical coherence tomography
Pieta Wijsman (Amsterdam, Netherlands), Richard Van Den Elzen, Lisa Van Smoorenburg, Annika Goorsenberg, Janette Burgess, Maarten Nawijn, Jouke Annema, Maarten Van Den Berge, Martijn De Bruin, Peter Bonta

Estimation of the Alveolar Partial Pressure of Oxygen using Hyperpolarized Helium-3: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study
Naz P. Taskiran (New York, United States of America), Grant T. Hiura, Xuzhe Zhang, Stephen M. Dashnaw, Eric A. Hoffman, Daniel Malinsky, Elizabeth C. Oelsner, Martin R. Prince, Benjamin M. Smith, Yanping Sun, Yifei Sun, James Wild, Wei Shen, R. Graham Barr, Emlyn W. Hughes

A Multidisciplinary Multicenter Study Evaluating Risk Factors, Prevalence and Characteristics of Post-COvid-19 Interstitial Lung Syndrome (POCILS)
Sara Tomassetti (Florence, Italy), Tiberio Oggioni, Emanuel Barisone, Elena Bargagli, Martina Bonifazi, Marco Confalonieri, Antonella Caminati, Raffaele Scala, Stefano Gasparini, Sergio Harari, Catherine Klersy, Federica Meloni, Adele Torricella, Teresita Aloe, Valentina Luzzi, Leonardo Gori, Stefania Ferraro, Giulia Giudici, Diletta Cozzi, Edoardo Cavagli, Vittorio Miele, Sara Piciuicchi, Nicola Sverzellati, Silvia Puglisi, Venerino Poletti, Claudia Ravaglia

Skills lab Session 195 10:00 - 12:00
Skills lab: Respiratory sleep
Aims: To explain the indications and equipment for in-hospital polysomnography; to give an overview for the use of new technologies and available tools for respiratory home monitoring; to show how to interpret the results of distance monitoring in different Sleep Disordered Breathing cases; to provide algorithms for PaP/NIV telemonitoring towards effective resolution of symptoms, to improve comorbidities, early identification of residual symptoms as well as for rehabilitation programmes.
Disease(s): Sleep and breathing disorders, Airway diseases, Paediatric respiratory diseases
Method(s): Epidemiology, Physiology, Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational)
Chairs: Sophia E. Schiza (Heraklion, Greece), Anita Simonds (London, United Kingdom)

10:00 Introduction
Anita Simonds (London, United Kingdom), Sophia E. Schiza (Heraklion, Greece)

10:05 Polysomnography: indications and interpretation
Johan Verbraecken (Edegem (Antwerp), Belgium)

10:30 Home sleep studies: indications and interpretation
Thomas Penzel (Berlin, Germany)

10:55 PAP telemonitoring and residual apnea–hypopnea index/symptoms: clinical cases and impact for follow-up management
Renaud Tamisier (Grenoble, France)

11:20 Home monitoring in patients with neuromuscular disorders from diagnosis to non-invasive ventilation initiation to rehabilitation programmes
Marieke L. Duiverman (Groningen, Netherlands), Michelle Chatwin (London, United Kingdom)
Studio Paris

Session 197
10:45 - 11:00

Breakout room: Primary care session, Part I: restarting COPD care in the post-COVID era

Chairs: Gustavo Cortes Puentes (Rochester, United States of America), Noel Baxter (Glasgow, United Kingdom), Janwillem W. H. Kocks (Groningen, Netherlands), Nuria Toledo Pons (Palma De Mallorca, Spain)

10:55 Introduction
Anita Simonds (London, United Kingdom), Sophia E. Schiza (Heraklion, Greece)

11:00 Remote consultations to monitor asthma in primary care
Hanna Sandelowsky (Vendelso, Sweden)

11:15 What is the best way to engage people with asthma in self-management?
Viv Marsh (Bridgnorth, United Kingdom)

11:30 Interventions to reduce hospital admissions and asthma crisis
Noel Baxter (Glasgow, United Kingdom)

11:45 Discussion and Q&A
All Speakers

Studio Paris

Session 198
10:55 - 12:10

Primary care session: Part II: restarting asthma care in the post-COVID era

Aims: To provide an overview of and a discussion forum for important issues relating to the management of asthma and chronic obstructive pulmonary disease after the COVID-19 pandemic; to present new approaches for managing patients in primary care during the COVID-19 pandemic; to invite feedback from the audience.

Disease(s): Airway diseases

Method(s): General respiratory patient care

Tag(s): Clinical, COVID, Digital health

Target audience: General practitioner, Nurse, Patient, Adult pulmonologist/clinician, Medical student, Paediatrician

Chairs: Hilary Pinnock (Edinburgh, United Kingdom), Miguel Roman Rodriguez (Palma De Mallorca, Spain), Marion Delcroix (Leuven, Belgium)

10:55 Introduction

11:00 Remote consultations to monitor asthma in primary care
Hanna Sandelowsky (Vendelso, Sweden)

11:15 What is the best way to engage people with asthma in self-management?
Viv Marsh (Bridgnorth, United Kingdom)

11:30 Interventions to reduce hospital admissions and asthma crisis
Noel Baxter (Glasgow, United Kingdom)

11:45 Discussion and Q&A
All Speakers
### Channel 2  
**Session 204**  
**11:15 - 12:45**  
**Oral presentation: Patient-reported outcome measures (PROMs): easy tools in the management of chronic respiratory diseases**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion. This session includes the Best Abstract for Assembly 5 - Airway Diseases, Asthma, COPD and Chronic Cough, entitled “The Leicester Cough Questionnaire in two phase 3 trials of gefapixant in chronic cough”

**Disease(s):** Airway diseases  

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

**Chairs:** Renaud Louis (Liège, Belgium), Iñigo Ojanguren Arranz (Barcelona, Spain)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1586</td>
<td><strong>Introduction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OA1587</td>
<td>The Leicester Cough Questionnaire in two phase 3 trials of gefapixant in chronic cough</td>
<td>Surinder S. Birring (London, United Kingdom), Jaclyn A. Smith, Alyn Morice, Ian Pavord, Peter V Diepinigaitis, Lorcan Mcgarvey, Anjela Tzontcheva, Qing Li, Allison Martin Nguyen, Jonathan Schellhout, David Muccino, Carmen La Rosa</td>
<td>London</td>
</tr>
<tr>
<td>OA1588</td>
<td>Patient-reported chronic cough severity over 52 weeks in two phase 3 trials of gefapixant</td>
<td>Peter Diepinigaitis (New York, United States of America), Surinder S Birring, Alyn Morice, Jaclyn A Smith, Ian Pavord, Lorcan Mcgarvey, Anjela Tzontcheva, Qing Li, Allison Martin Nguyen, Jonathan Schellhout, David Muccino, Carmen La Rosa</td>
<td>New York</td>
</tr>
<tr>
<td>OA1589</td>
<td>Prevalence of Poor Disease Control in Patients with severe COPD according to GOLD 2021</td>
<td>Juan José Soler-Cataluña (La Eliana (Valencia), Spain), Arturo Huerta, Pere Almagro, Diego González-Segura, Borja G Cosío</td>
<td>Valencia</td>
</tr>
<tr>
<td>OA1590</td>
<td>Real-world evidence of reported symptoms and quality of life burden associated with chronic rhinosinusitis with nasal polyposis and comorbid asthma status</td>
<td>Benjamin Emmanuel (Gaithersburg, United States of America), Mousumi Biswas, Megan Scott, Mark Small, Lauren Lee, Stephanie Chen, Sandrine Ruiz</td>
<td>United States of America</td>
</tr>
<tr>
<td>OA1591</td>
<td>The Severe Asthma Questionnaire (SAQ) - minimal clinically important difference and sensitivity to change</td>
<td>Matthew Masoli (Plymouth (Devon), United Kingdom), Joseph Lanario, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, David Allen, Dodd James, Gemma Hayes, Jose Valderr, Sallie Lamb, Rupert Jones</td>
<td>Plymouth</td>
</tr>
<tr>
<td>OA1592</td>
<td>A Parent Reported Quality of Life Measure for Young Children with Primary Ciliary Dyskinesia: QOL-PCDPR</td>
<td>Laura Behan (Ballincollig (Co. Cork), Ireland), Corine Driessens, Siobhan Carr, Sharon Dell, Amanda Harris, Rebecca Knibb, Margaret Leigh, Manjith Narayanan, Evie Robson, Lynne Schofield, Jane Lucas</td>
<td>Ballincollig</td>
</tr>
<tr>
<td>OA1593</td>
<td>Treatable traits in the NOVELTY study: assessing complexity by network analysis</td>
<td>Rosa Faner (Barcelona, Spain), Eleni Rapsomaniki, Richard Beasley, Rod Hughes, Hana Müllerová, Alberto Papi, Ian D Pavord, Alvar Agusti</td>
<td>Barcelona</td>
</tr>
<tr>
<td>OA1594</td>
<td>Long-term impact of COPD on postoperative cardiorespiratory morbidity and mortality: a population cohort study</td>
<td>Nermin Diab (Ottawa, Canada), Ashwin Sankar, Jin Luo, Kevin Thorpe, Duminda Wijeysundera, Andrea Gershon</td>
<td>Ottawa, Canada</td>
</tr>
<tr>
<td>OA1595</td>
<td>Is blood eosinophil count a biomarker for chronic obstructive pulmonary disease in a real-world clinical setting? Predictive property and longitudinal stability in Japanese patients.</td>
<td>Koichi Nishimura (Kyoto, Japan), Masaaki Kusunose, Ryo Sando, Mio Mori, Ayumi Shibayama</td>
<td>Kyoto</td>
</tr>
</tbody>
</table>
Late Breaking Abstract - Blood and bronchoalveolar neutrophil signatures associate with COPD severity

Discussion
All Speakers

Channel 3 Session 205 11:15 - 12:45
Oral presentation: Advances in treatment and management of tuberculosis and nontuberculous mycobacterial disease

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

Chairs: Jan Heyckendorf (Hamburg, Germany), Alberto Garcia-Basteiro (Maputo, Mozambique)

OA1598 Introduction

OA1599 New definitions of extensively drug resistant tuberculosis: update from the World Health Organization
Kerri Viney (Geneva, Switzerland), Fuad Mirzayev, Nguyen Nhat Linh, Medea Gegea, Matteo Zignol

OA1600 Outcomes of modified all-oral 9-month treatment regimen for rifampicin-resistant tuberculosis in Belarus
Natalia Yatskevich (Minsk, Belarus), Elmira Gurbanova, Henadz Hurevich, Masoud Dar, Askar Yedilbayev, Viatcheslav Grankov, Ogtye Gozalov, Alena Skrahina

OA1601 Metformin as an adjunct in treatment of Pulmonary Tuberculosis in Non-Diabetic patients.
Sudarsan Pothal (Puri, India), Ipsita Samantaray, Sashi Bhusan Biswal

OA1602 Treatment failure of nontuberculosis pulmonary disease after adjunctive surgical resection
Noeul Kang (Seoul, Republic of Korea), Byung Woo Jhun

OA1603 Use of inhaled GM-CSF in treatment-refractory NTM infection. An open-label, exploratory clinical trial.
Rachel Thomson (Brisbane (QLD), Australia), Grant Waterer, Michael R. Loebinger, Cecilia Ganslandt

OA1604 Comparison of the Pharmacokinetics of a child-friendly Fixed-Dose Combination of rifampin and isoniazid and separate tablets in children with pulmonary tuberculosis.
Aziza Pakhlavonova (Moscow, Russian Federation), Valentina Aksenova, Nadezhda Klevno, Alexey Kazakov, Sergey Popov, Vyacheslav Hotchenkov, Alexander Ruzhitsky

OA1605 Barriers and enablers to implementing TB control strategies in EU and EEA countries: a systematic review
Olivia Conroy (London, United Kingdom), Fatima Wurie, Simon Collin, Matt Edmunds, Gerard De Vries, Knut Lönrooth, Ibrahim Abubakar, Sarah Anderson, Dominik Zenner

OA1606 Impact of pulmonary tuberculosis on COPD outcomes
Nuno Faria (Porto, Portugal), Maria Inês Costa, Joana Gomes, Maria Sucena

OA1607 Tuberculosis in the elderly. Clinical aspects and outcomes.
Elena Garay Llorente (Barakaldo, Spain), Eva Tabernero Huguet, Teresa Rodrigo Sanz, Lander Altube Urrengoextea, Juan Francisco Medina Gallardo, Nerea Ortíz Laza, Javier Garros Garay, Juan Rodriguez Lopez, Jose Maria Garcia Garcia, Pii Tuberculosis Group Separ

OA1608 Late Breaking Abstract - Impact of the SARS-CoV-2 pandemic on incidence and phenotype of tuberculosis in a UK hotspot
Jee Whang Kim (Leicester, United Kingdom), Rahul Patel, David Bell, Manish Pareek, Helen Thuraisingam, Jo Lee, Alison Gilmour-Caunt, Louise Yorke, Gerrit Woltmann, Raman Verma, Pranabashis Haldar

OA1609 Discussion
All Speakers

Channel 4 Session 206 11:15 - 12:45
Oral presentation: Paediatric lung disease: novel mechanisms, methods and translational studies

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
Disease(s): Airway diseases

Method(s): Cell and molecular biology Imaging Physiology Pulmonary function testing Respiratory intensive care

Chairs: Ivana Mižíková (Cologne, Germany), Miguel Angel Alejandro Alcázar (Köln, Germany)

OA1610 Introduction

OA1611 Neonatal βfNaC-Tg mice with cystic fibrosis-like lung disease possess enlarged airspaces
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Sanja Blaskovic, Dominik Schittny, Elena Borisova, Zhe Zhou-Suckow, Jolanthe Schatterny, Marcus A. Mall, Christian M. Schlepütz, Marco Stampanoni, Johannes C. Schittny

OA1612 Defects in outer dynein arm docking machinery cause primary ciliary dyskinesia
Rim Hjeij (Münster, Germany), Isabella Aprea, Heike Olbrich, Gerard W. Dougherty, Heymut Omran

OA1613 LSC - 2021 - Development of a 3D co-culture model of the airway mucosa using human primary cells
Ivana Mižíková (Cologne, Germany), Miguel Angel Alejandro Alcázar (Köln, Germany)

OA1614 LSC - 2021 - Decellularized extracellular matrix hydrogels for human airway organoid culture
Sinem Tas (Lund, Sweden), Deniz A. Bölbükbas (deniz.bolubkas@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Hani N. Alsafadi (hani.alsafadi@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Iran An Da Silva (iran.augusto_silva@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Martina M. De Santis (martina.de_santis@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Emil Rehnberg (emil.rehnberg.319@student.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Isabel Tamargo (isabeltamargo23@gmail.com / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Sophie Mohlin (sofie.mohlin@med.lu.se / Division of Pediatrics, Clinical Sciences, Translational Cancer Research, Lund University Cancer Center at Medicon Village, Lund ), Sandra Lindstedt (sandra.lindstedt_ingemanson@med.lu.se / Dept of Cardiothoracic Surgery, Heart and Lung Transplantation, Wallenberg Center for Molecular Medicine, Lund University Hospital, Lund ), Darcy E. Wagner (darcy.wagner@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund )

OA1615 A safe inhaled alkaline treatment that inhibits respiratory viral infections in a dose-dependent manner
Michael Davis (Indianapolis, United States of America), Jessica Saunders, Ryan Relich, Laura Smith, Benjamin Gaston

OA1616 Serum thymic stromal lymphopoietin level depends on allergic profile in pediatric asthma
Andrey Kamaev (St. Petersburg, Russian Federation), Olga Trusova, Natalia Lyashenko, Irina Kamaeva, Natalia Shaporova

OA1617 Late Breaking Abstract - Short exposure to moderate hyperoxia leads to long term effects in the murine lung in-vivo
Erika Gonzalez (Munich, Germany), Juan Henao, Florian Schelter, Markus Mueller, Xin Zhang, Thomas Carell, Benjamin Schubert, Anne Hilgendorff

OA1618 Late Breaking Abstract - Estimation of alveolar surface area by functional morphometry utilising a premature baboon model
Theodore Dassios (London, United Kingdom), Mario Rudiger, Donald Mccurnin, Emma Williams, Anne Greenough, Marius Alexander Moebius

OA1619 Late Breaking Abstract - ERBB3 involved in growth factor pathway crosstalk during neonatal lung development in a 3D ex vivo model
Xin Zhang (Munich, Germany), Xin Zhang, Erika Gonzalez, Carola Voss, Anne Hilgendorff

OA1620 HBD-2 mutations are associated with childhood asthma and prophylactic hBD-2 application prevents asthma in mice
Natasa Borchers (Lappersdorf, Germany), Elisangela Santos-Valente, Antoaneta A. Toncheva, Jan Wehkamp, Andre Franke, Vincent D. Gaertner, Peter Nordkild, Jon Genuneit, Benjamin A. H. Jensen, Michael Kabesch

OA1621 Discussion
All Speakers
Oral presentation: New trends in non-invasive respiratory support

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

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

**Tag(s):** COVID

**Chairs:** João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Sarah Bettina Schwarz (Köln, Germany)

---

OA1622 **Introduction**

OA1623 **Validation of a detection algorithm for patient-ventilator asynchrony in COPD patients treated with NIV**
Tim Raveling (Groningen, Netherlands), Suzanne Van Norden, Matieke Duiverman

OA1624 **Ultrasoundographic evaluation of the diaphragm during NHF versus NIV use in respiratory failure.**
Andreas Hoheisel (Leipzig, Germany), Jens Bräunlich, Alexandra Wald, Hubert Wirtz

OA1625 **Effect of respiratory muscle unloading on cerebral and peripheral muscle oxygenation during high-intensity exercise in COPD-HF patients**
Cássia Goulart (São Carlos, Brazil), Flávia Caruso, Adriana De Araújo, Silvia De Moura, Aparecida Catri, Piergiuseppe Agostoni, Renata Mendes, Ross Arena, Audrey Borghi-Silva

OA1626 **Home nasal high-flow following severe COPD exacerbation: a mixed-methods feasibility randomised controlled trial**
Rebecca D’Cruz (London, United Kingdom), Anne Rossel, Eui-Sik Suh, Georgios Kaltasakas, Neeraj Shah, Amy Dewar, Louise Rose, Patrick Murphy, Nicholas Hart

OA1627 **High-flow nasal cannula therapy versus standard pressure support non-invasive ventilation in treating adult patients with severe asthma exacerbation complicated with respiratory failure**
Doaa Magdy (Assiut, Egypt), Ahmed Metwally

OA1628 **Non-invasive respiratory support in COVID-19 patients outside the intensive care unit: a multicenter study**
Eduardo Antonio Velez Segovia (Barcelona, Spain), Sergi Martí Beltran, Mercedes Pallero Castillo, Julia Sampol Sirvent, Toni Marin, Irene Aldas, Gladis Sabater, Marc Bonnin, Manel Luján, Cristina Lalmolda Puyol, Patricia Peñacoba, Juana Martinez Llorens, Oscar Berndich, Julia Tarrega, Ana Cordoba Izquierdo, Lourdes Lozano, Anne-Elise Carsin, Susana Mendez, Judith Garcia

OA1629 **Recommended approaches to minimize aerosol dispersion of COVID during noninvasive ventilatory support can deteriorate ventilator performances: a benchmark comparative study**
Maxime Patout (Mont-Saint Aignan, France), Emeline Fresnel, Manuel Lujan, Claudio Rabec, Annalisa Carluci, Léa Razakamanantsoa , Adrien Kerlour , Hilario Nunes, Yacine Tandjaoui-Lambiotte, Antoine Cuvelier, Jean-François Muir, Cristina Lalmoda, Bruno Langevin, Javier Sayas, Jesus Gonzalez-Bermejo , Jean-Paul Janssens

OA1630 **Usefulness of telemedicine in ALS during COVID-19 pandemic**
Natalia Pascual Martínez (Cordoba, Spain), Maria Melgar Herrero, Estefania Mira Padilla, Cristina Gomez Rebollo, Pablo Garcia Lovera, Cristina Muñoz Corroto, Teresa Gomez Caravaca, Laura Muñoz Cabello, Manuela Mejías Ruiz, Mariola Fernández Alcainde, Ana Luz Luna Jiménez, Jose Maria Martín Muñoz, Maria José González Benitez, Mónica Posadas De Julián, Rosa Gomez Gomez, Maria Luisa Raya Seco De Herrero, Elisa Martinez Repiso

OA1631 **Correlation between GFAP and UCH-L1 serum concentrations and mitigation of brain insult after MV with diaphragm neurostimulation.**
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Marlena Ornowska, Michelle Nicholas, Matt Gani, Doug Evans, Steve Reynolds

OA1632 **Late Breaking Abstract - Inspiratory Effort And Respiratory Mechanics In Spontaneously Breathing Covid-19 Patients On Hospital Admission**
Roberto Tonelli (Modena, Italy), Ivana castaniere, Alessandro Marchioni, Luca Tabbi, Riccardo Fantini, Dario Andrisani, Filippo Gozzi, Giulia Bruzzi, Linda Manicardi, Antonio Moretti, Caterina Cerbone, Morgana Vermi, Emanuela Biagioni, Stefano Busani, Massimo Girardis, Enrico Clini

OA1633 **Discussion**
All Speakers
Aims: To provide clinicians with practical take-home messages regarding the key management and health policy issues related to the respiratory health of children and young people; to provide an update on four important topics in paediatric respiratory medicine.

Disease(s): Paediatric respiratory diseases, Respiratory infections

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

Tag(s): Translational, Digital health, Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Journalist

Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland)

11:15 Introduction

11:20 Can phenotype and endotype discovery be translated to the clinic?
Adnan Custovic (London, United Kingdom)

11:35 Biologics: current use and future applications for personalised therapy
Els J.M. Weersink (Amsterdam, Netherlands)

11:50 Time to ban short-acting -agonists and use anti-inflammatory treatment as required to improve outcomes
Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy)

12:05 The pro’s and con’s of remote monitoring and telemedicine
Theresa Guilbert (Cincinnati, United States of America)

12:20 Discussion and Q&A
All Speakers

Studio Barcelona Session 209 11:15 - 12:45

Lungs on fire: LoF Interstitial lung diseases?

Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s): Interstitial lung diseases

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Physician in Pulmonary Training, Nurse, Radiologist, Pathologist, Thoracic oncologist, Medical Student

Chairs: Katerina Antoniou (Heraklion, Greece), Carlos Robalo Cordeiro (Coimbra, Portugal), Tiago Alfaro (Coimbra, Portugal)

Discussants: Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

11:15 Introduction

11:20 Presentation of cases by the session facilitator
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

Case 1 - Author: Mário Alexandre Oliveira Pinto, Portugal

Case 2 - Author: Sophie Cottin, Belgium

Case 3 - Author: Johad Khoury, Israel

Case 4 - Author: Wallace Wee, Canada

12:40 Session wrap-up

Studio London Session 210 11:15 - 12:45

Symposium: Sarcopenia in chronic respiratory disease: new definitions, assessment and treatment options
Aims: To describe the concept of sarcopenia in chronic respiratory disease and its importance to maintain and/or optimise the benefits of pulmonary rehabilitation; to describe the assessment of sarcopenia in chronic respiratory disease; to describe how to implement and assess the treatment options for sarcopenia in chronic lung disease; to describe the effects of sarcopenia on patients undergoing pulmonary rehabilitation.

Disease(s): Airway diseases, Thoracic oncology

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Respiratory therapist

Chairs: Martijn A. Spruit (Horn, Netherlands), Charlotte Suppli Ulrik (Virum, Denmark)

11:15 Introduction

11:20 Update on recent definitions and diagnosis of sarcopenia
Gulistan Bahat (ISTANBUL, Turkey)

11:35 Malnutrition and sarcopenia assessment
Annemie Schols (Maastricht, Netherlands)

11:50 Underlying mechanisms and pharmacological approaches for treatment of sarcopenia
Neil Greening (Leicester (Leicestershire), United Kingdom)

12:05 Modalities of pulmonary rehabilitation, including exercise training for sarcopenia in chronic lung disease
Matthew Maddocks (London, United Kingdom)

12:20 Discussion and Q&A
All Speakers

Studio Munich Session 211 11:15 - 12:45

Symposium: Digital transformation in practice: enabling next-generation medicine

Aims: To present an initiative for personalised medicine using new medical technologies; to discuss the implementation of digital resources to improve the care of respiratory patients.

Disease(s): Airway diseases, Respiratory infections

Method(s): General respiratory patient care

Tag(s): Clinical, COVID, Digital health

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Technical Assistant, Nurse, Patient

Chairs: Marc Miravitlles (Barcelona (CT), Spain), Miriam Barrecheguren Fernandez (Barcelona, Spain)

11:15 Introduction

11:20 The Catalan open innovation hub on ICT-supported integrated care services
Carme Hernandez Carcereny (Barcelona, Spain)

11:35 Turning the crisis into an opportunity: digital health strategies deployed during the COVID-19 outbreak
Jordi Piera (Barcelona, Spain)

11:50 Computational challenges of personalised medicine: from bench to bedside
Kristel Van Steen (Liège, Belgium)

12:05 Implementation of digitally enabled integrated person-centred care across Europe
Filip Domanski (Brussels, Belgium)

12:20 Discussion and Q&A
All Speakers

Channel 6 Session 212 11:15 - 12:45

Oral presentation: Respiratory infections

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
| OA1659 | Introduction |
| OA1660 | Late Breaking Abstract - Value of the interleukin profile can be an objective standard for control the tactics of managing patients with bronchiolitis  
Pavel Berezhanskiy (Uspenskoe (Moscow region), Russian Federation), Andrey Andjel, Aleksandr Malachov, Valeria Elagina |
| OA1661 | Late Breaking Abstract - Developing the pneumonia-optimized ratio for community-acquired pneumonia: an easy, inexpensive and accurate prognostic biomarker  
Guilherme Cristianetti Frison (Porto Alegre, Brazil), Enrico Moretto, Vinicius Cury, Lucas Antoniazzi, Paulo Henrique Oliveira, Wyllians Borelli, Sainan Cunha, Renato Seligman |
| OA1662 | Late Breaking Abstract - Dysbiosis in the lung microbiome of patients with HIV and pneumonia is associated with worse disease severity and mortality scores  
Veronica Ueckermann (Pretoria (Gauteng), South Africa), Marthie Ehlers |
| OA1663 | Late Breaking Abstract - The prognostic value of computed tomography findings in COVID-19 older patients  
Panaiotis Finamore (Roma (RM), Italy), Chukwuma Okoye, Giuseppe Bellelli, Alessandra Coin, Susanna Del Signore, Stefano Fumagalli, Pietro Giare, Alba Malara, Enrico Mossello, Caterina Trevisan, Stefano Volpato, Gianluca Zia, Fabio Monzani, Raffaele Antonelli Incalzi |
| OA1664 | Late Breaking Abstract - Relevance of first wave derived COVID-19 prediction scores, in the UK second wave, for mortality and safe early discharge  
Hakim Ghani (Watford, United Kingdom), Alessio Navarra, Shamira Ghouse, Nafissa Hussain, Nabiah Malik, Jishanthan Ragunathan, Simon Saldanha, Kholawe Kutshwa, Mihrin Patel, Sceyon Mohan, Rama Vancheeswaran |
| OA1665 | Late Breaking Abstract - Tocilizumab in hospitalized patients with severe COVID-19: an open label, prospective study  
Theodoros Karampitsakos (Patras, Greece), Elli Malakoudou, Ourania Papaioannou, Vassilina Dimakopoulou, Eirini Zarkadi, Matthaisios Katsaras, Panagiota Tsiri, Georgios Tsirikos, Ioanna Oikonomou, Christos Davoulos, Vasiliki Georgiopoulou, Fotios Sampsonos, Markos Marangos, Karolina Akinosoglou, Argyris Tzouvelekis |
| OA1666 | Late Breaking Abstract - Improving adherence to prescribing remdesivir in COVID-19  
Nilakshini Mahendran (Ilford, United Kingdom), Rebecca Bamford, Usman Ahmed, Tina Ramishvili, Henry Garner, Shamir Alvis, Miia Germani-Batacchi, Adam Ainley |
| OA1667 | Late Breaking Abstract - Economic burden of pertussis among adults 50 years and above: a retrospective observational study in England  
Lauriane Harrington (Wavre, Belgium), Emmanuel Aris, Bhavinar Amit, Akpo Essé Ifébi Hervé, Jason C. Simeone, Anna Ramond, Dimitri Lambrelli, Nicolas Jamet, Yen Sergerie, Piyali Mukherjee, Kinga Meszaros |
| OA1668 | Late Breaking Abstract - Leptomeningeal manifestations of SARS-CoV-2 pneumonia: a prospective observational study.  
Pietro Gianella (Lugano, Switzerland), Marco Marando, Tanja Fusi-Schmidhauser, Adriana Tamburello, Lorenzo Graziol-Gauthier, Elia Rigamonti, Gianluca Argentieri, Carla Puligheddu, Alberto Pagnamenta, Antonio Valenti, Marco Pons |
| OA1669 | Late Breaking Abstract - Short duration high intensity intrapleural Alteplase with Pulmozyme in pleural infection management – a single centre experience  
Xiong Khee Cheong (Kuala Lumpur, Malaysia), Mohamed Faisal Abdul Hamid, Andrea Yu-Lin Ban, Boon Hau Ng, Nik Nuratiqah Nik Abeed, Nik Azuan Nik Ismail, Nik Farhan Nik Fuad, Syed Zulkifli Syed Zakaria, Sheah Lin Ghan |

Discussion
All Speakers

**Studio Paris**

**Session 213**

Breakout room: Breakout room: Primary care session. Part II: restarting asthma care in the post-COVID era

**Chairs**: Gustavo Cortes Puentes (Rochester, United States of America), Hanna Sandelowsky (Vendelso, Sweden), Viv Marsh (Bridgnorth, United Kingdom), Noel Baxter (Glasgow, United Kingdom)

**Session 214**

Pro-Con debate: The current classification of pulmonary hypertension meets clinical practice

---

**ERS Virtual International Congress 2021**

**DETAILED PROGRAMME**

**MONDAY 06 SEPTEMBER, 2021**

---

**OA1659**
Introduction

**OA1660**
Late Breaking Abstract - Value of the interleukin profile can be an objective standard for control the tactics of managing patients with bronchiolitis
Pavel Berezhanskiy (Uspenskoe (Moscow region), Russian Federation), Andrey Andjel, Aleksandr Malachov, Valeria Elagina

**OA1661**
Late Breaking Abstract - Developing the pneumonia-optimized ratio for community-acquired pneumonia: an easy, inexpensive and accurate prognostic biomarker
Guilherme Cristianetti Frison (Porto Alegre, Brazil), Enrico Moretto, Vinicius Cury, Lucas Antoniazzi, PauloHenrique Oliveira, Wyllians Borelli, Sainan Cunha, Renato Seligman

**OA1662**
Late Breaking Abstract - Dysbiosis in the lung microbiome of patients with HIV and pneumonia is associated with worse disease severity and mortality scores
Veronica Ueckermann (Pretoria (Gauteng), South Africa), Marthie Ehlers

**OA1663**
Late Breaking Abstract - The prognostic value of computed tomography findings in COVID-19 older patients
Panaiotis Finamore (Roma (RM), Italy), Chukwuma Okoye, Giuseppe Bellelli, Alessandra Coin, Susanna Del Signore, Stefano Fumagalli, Pietro Giare, Alba Malara, Enrico Mossello, Caterina Trevisan, Stefano Volpato, Gianluca Zia, Fabio Monzani, Raffaele Antonelli Incalzi

**OA1664**
Late Breaking Abstract - Relevance of first wave derived COVID-19 prediction scores, in the UK second wave, for mortality and safe early discharge
Hakim Ghani (Watford, United Kingdom), Alessio Navarra, Shamira Ghouse, Nafissa Hussain, Nabiah Malik, Jishanthan Ragunathan, Simon Saldanha, Kholawe Kutshwa, Mihrin Patel, Sceyon Mohan, Rama Vancheeswaran

**OA1665**
Late Breaking Abstract - Tocilizumab in hospitalized patients with severe COVID-19: an open label, prospective study
Theodoros Karampitsakos (Patras, Greece), Elli Malakoudou, Ourania Papaioannou, Vassilina Dimakopoulou, Eirini Zarkadi, Matthaisios Katsaras, Panagiota Tsiri, Georgios Tsirikos, Ioanna Oikonomou, Christos Davoulos, Vasiliki Georgiopoulou, Fotios Sampsonos, Markos Marangos, Karolina Akinosoglou, Argyris Tzouvelekis

**OA1666**
Late Breaking Abstract - Improving adherence to prescribing remdesivir in COVID-19
Nilakshini Mahendran (Ilford, United Kingdom), Rebecca Bamford, Usman Ahmed, Tina Ramishvili, Henry Garner, Shamir Alvis, Miia Germani-Batacchi, Adam Ainley

**OA1667**
Late Breaking Abstract - Economic burden of pertussis among adults 50 years and above: a retrospective observational study in England
Lauriane Harrington (Wavre, Belgium), Emmanuel Aris, Bhavinar Amit, Akpo Essé Ifébi Hervé, Jason C. Simeone, Anna Ramond, Dimitri Lambrelli, Nicolas Jamet, Yen Sergerie, Piyali Mukherjee, Kinga Meszaros

**OA1668**
Late Breaking Abstract - Leptomeningeal manifestations of SARS-CoV-2 pneumonia: a prospective observational study.
Pietro Gianella (Lugano, Switzerland), Marco Marando, Tanja Fusi-Schmidhauser, Adriana Tamburello, Lorenzo Graziol-Gauthier, Elia Rigamonti, Gianluca Argentieri, Carla Puligheddu, Alberto Pagnamenta, Antonio Valenti, Marco Pons

**OA1669**
Late Breaking Abstract - Short duration high intensity intrapleural Alteplase with Pulmozyme in pleural infection management – a single centre experience
Xiong Khee Cheong (Kuala Lumpur, Malaysia), Mohamed Faisal Abdul Hamid, Andrea Yu-Lin Ban, Boon Hau Ng, Nik Nuratiqah Nik Abeed, Nik Azuan Nik Ismail, Nik Farhan Nik Fuad, Syed Zulkifli Syed Zakaria, Sheah Lin Ghan

**Discussion**
All Speakers
Aims: To identify strengths and weaknesses of the current pulmonary arterial hypertension (PAH) classification; to discuss 1) how the altered phenotype of pulmonary arterial hypertension fits in the classification; to discuss comorbidities and multiple causes of pulmonary hypertension (PH); to discuss novel biological insights which might or might not be useful to be included in the current classification.

Disease(s): Pulmonary vascular diseases

Method(s): Imaging  Pulmonary function testing  Respiratory intensive care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Physician in Pulmonary Training

Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Miguel Román Rodriguez (Palma De Mallorca, Spain), Marion Delcroix (Leuven, Belgium)

12:20 Introduction

12:22 Pro: The current classification of pulmonary hypertension meets clinical practice
David Montani (Le Kremlin-Bicêtre, France)

12:34 Con: The current classification of pulmonary hypertension meets clinical practice
Harm Jan Bogaard (Amsterdam, Netherlands)

12:46 Discussion and Q&A
All Speakers

Studio Amsterdam  Session 215  12:45 - 13:00

Breakout room: Breakout room: Symposium, Wheezing illnesses along the life span
Chairs: Adnan Custovic (London, United Kingdom), Els J.M. Weersink (Amsterdam, Netherlands), Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy), Theresa Guilbert (Cincinnati, United States of America), Abdul Mannan Mustafa (Multan, Pakistan)

Studio Barcelona  Session 216  12:45 - 13:00

Breakout room: Breakout room: Lungs on fire, LoF Interstitial lung diseases?
Chairs: Kunal Khanderao Deokar (Thane (Maharashtra), India), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

Studio London  Session 217  12:45 - 13:00

Breakout room: Breakout room: Symposium, Sarcopenia in chronic respiratory disease: new definitions, assessment and treatment options
Chairs: Ema Swingwood (Monmouthshire, United Kingdom), Gulistan Bahat (STANBUL, Turkey), Annemie Schols (Maastricht, Netherlands), Matthew Maddocks (London, United Kingdom), Neil Greening (Leicester (Leicestershire), United Kingdom)

Studio Munich  Session 218  12:45 - 13:00

Breakout room: Breakout room: Symposium, Digital transformation in practice: enabling next-generation medicine
Chairs: Justine Devulder (London, United Kingdom), Carme Hernandez Carcereny (Barcelona, Spain), Jordi Piera (Barcelona, Spain), Kristel Van Steen (Liège, Belgium), Filip Domanski (Brussels, Belgium)

Skills lab  Session 219  12:50 - 15:00

Skills lab: Thoracic ultrasound

Aims: To demonstrate the current use of thoracic ultrasound and to provide participants with the practical case examples with expert commentary.

Disease(s): Thoracic oncology  Interstitial lung diseases  Respiratory infections  Respiratory critical care

Method(s): Imaging  General respiratory patient care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon

Chairs: Najib M. Rahman (Oxford, United Kingdom), Christian B. Laursen (Odense, Denmark)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Demonstration: Chest wall &amp; parietal pleura</td>
<td>Najib M. Rahman (Oxford, United Kingdom), Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)</td>
<td>1676</td>
</tr>
<tr>
<td>13:20</td>
<td>Demonstration: Focused assessment of the lung &amp; heart</td>
<td>Christian B. Laursen (Odense, Denmark), Casper Falster (Odense, Denmark)</td>
<td>1677</td>
</tr>
<tr>
<td>13:40</td>
<td>Thoracic ultrasound for assessing and monitoring patients with acute respiratory distress syndrome</td>
<td>Silvia Mongodi (Pavia, Italy)</td>
<td>1678</td>
</tr>
<tr>
<td>14:00</td>
<td>Transthoracic ultrasound guided biopsies</td>
<td>Rocco Trisolini (Roma, Italy)</td>
<td>1679</td>
</tr>
<tr>
<td>14:20</td>
<td>Contrast enhanced thoracic ultrasound</td>
<td>Niels Jacobsen (Odense M, Denmark)</td>
<td>1680</td>
</tr>
<tr>
<td>14:40</td>
<td>Thoracic ultrasound for monitoring patients following pleurodesis</td>
<td>Maged Hassan (Alexandria, Egypt), Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)</td>
<td>1681</td>
</tr>
</tbody>
</table>

**Studio Paris Session 220**

13:00 - 13:15

Breakout room: Breakout room: Pro-Con debate, The current classification of pulmonary hypertension meets clinical practice

Chairs: Gustavo Cortes Puentes (Rochester, United States of America), David Montani (Le Kremlin-Bicêtre, France), Harm Jan Bogaard (Amsterdam, Netherlands)

13:00-14:30

**INDUSTRY VIRTUAL SYMPOSIUM**

SEE PAGE 1

**Pre-congress content Session 227**

13:15 - 14:15

E-poster: Epidemiology and burden of tuberculosis and other lung diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):**
- Airway diseases
- Respiratory critical care
- Thoracic oncology

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

**Tag(s):**
- COVID

Chairs: Adrian Rendon (Monterrey, Mexico), Kiarina Chichirelo-Konstantynovych (Vinnitsya, Ukraine)

**PA1720**

Efficacy and safety of chemotherapy regimens containing fluoroquinolones in pediatric TB

Yulia Khokhlova (Moscow, Russian Federation), Marina Gubkina, Natalya Yukhimenko, Irina Petrakova, Svetlana Sterlikova

**PA1721**

Effect of smoking on tuberculosis treatment outcomes: A systematic review and meta-analysis

Abay Burusie (Assela, Ethiopia), Fikre Enquesilassie, Adamu Addissie

**PA1722**

Predictors of retrospective tuberculosis treatment outcomes in selected health institutions in Nigeria

Nelson Eze (Abuja, Nigeria)

**PA1723**

Prevalence of the epidemic variants of the Mycobacterium tuberculosis Beijing genotype across Russian regions

Tatiana Umpeleva (Ekaterinburg, Russian Federation), Igor Mokrousov, Anna Vyazovaya, Svetlana Zhdanova, Maria Badleeva, Irina Yarusova, Alena Gerasimova, Regina Mudarisova, Natalia Solovieva, Natalia Eremeeva, Diana Vakhrusheva, Oksana Pasechnik, Oleg Ogarkov, Viacheslav Zhuravlev

**PA1724**

The social and structural determinants of tuberculosis incidence trends in 116 countries from 2005-2015: an ecological study

Fiona A. Koeltringer (Salzburg, Austria), Kristi Annerstedt, Daniel Carter, Delia Boccia, William E. Rudgard

**PA1725**

Prevalence of Eosinophilia in Patients with Tuberculosis

Vasanth Naidu (London, United Kingdom), Moerida Belton

**PA1726**

Prevalence of Multidrug Resistant Tuberculosis among TB Patients in Malaysia

Mahindran Rajendran (Shah Alam, Malaysia)
Effect of air pollution and greenness on the nasal microbiota in infancy
Amanda Gisler (Basel, Switzerland), Insa Korton, Markus Hilty, Kees De Hoogh, Danielle Vienneau, Urs Frey, Fabienne Decrue, Olga Gorlanova, Andras Soti, Philipp Latzin, Jakob Usemann

The combined effect of air pollution and temperature on respiratory health outcomes: a systematic review.
Ashtyn Areal (Düsseldorf, Germany), Qi Zhao, Claudia Wigmann, Tamara Schikowski

The effects of national lockdown on incidence of acute exacerbation of chronic obstructive pulmonary disease
Richard Cooper (Chester, United Kingdom), Imran Hussain, Naveed Mustfa, Helen Stone

Data driven phenotyping and COVID-19 case definitions: a pattern recognition approach
George Vavougios (Larissa, Greece), Christofors Konstantatos, Pavlos - Christoforos Sinigalias, Sotirios Zarogiannis, Kostas Kolomvatsos, Konstantinos Gourgoulianis

Association between antacid proton pump inhibitors and histamine 2 receptor antagonists and incidence of lung cancer: a population-based cohort analysis
Won-Il Choi (Goyang-si, Republic of Korea), Jihyeon Jeong, Choong Won Lee

Coronavirus infection (Covid – 19) in children with cystic fibrosis in the Russian Federation
Elena Zhekaite (Moscow, Russian Federation), Elena Kondratyeva, Victoria Sherman, Olga Simonova, Yuliya Gorinova, Anna Voronkova

Predictors for detecting chronic respiratory diseases in population surveys: a pilot study for RESPIRE 4CCORD study
Dhiraj Agarwal (Pune (Maharashtra), India), Nik Sherina Hanafi, Ee Ming Khoo, Richard Parker, Deesha Ghorpade, Sundeep Salvi, Osman M Yusuf, Mohsin S Khan, Shahida O Yusuf, Deepa Das, Biswajit Paul, Rita Isaac, Mohammad Shahidul Islam, Samir Saha, Su May Liew, Norita Hussein, Ahmad Ilhan Abu Bakar, Yong Kek Pang, Karuthan Chinna, Li Ping Wong, Sanjay Juvvaker, Hilary Pinnock

Progression to a severe form of COVID-19 among patients with chronic respiratory diseases: a French multicentric study.
Sarah BASIN (NANCY, France), Simon Valentin, Arnaud Maurac, Mathias Poussel, Benjamin Pequignot, Aurélien Brindel, Céline Robert, Cédric Baumann, Amandine Luc, Julien Soler, François Chabot, Ari Chaouat

COVID-19 Related Deaths in Istanbul
Nilufer Aykac (ISTANBUL, Turkey), Onur Hamzaoglu

Survival and decanulation frequency in out-of-hospital intensive care
Abdel Hakim Bayarassou (Rösrath, Germany), Simon D. Herkenrath, Wilhelm Rehorn, Marcel Treml, Winfried Randerath

Factors associated with community-acquired pneumonia in-hospital mortality in Portugal
Ezequiel Pessoa (Lisbon, Portugal), Cristina Bárbara, Andreia Costa, Paulo Nogueira

Targeted sequencing of 130 asthma candidate genes and association testing of rare variants with age of onset in Norwegian asthma patients.
Gry B. N. Nordang (Skien, Norway), Øyvind L. Busk, Geir Klepaker, Christian M. Page, Marissa Leblanc, Øystein L. Holla, Anne Kristin M. Fell

Pre-congress content Session 228 13:15 - 14:15
E-poster: Pneumonia
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care

Method(s): General respiratory patient care Cell and molecular biology Respiratory intensive care Epidemiology Public health
Chairs: Adrian Ceccato (barcelona, Spain), Catia Cilloniz Campos (Barcelona, Spain)

Long-term impact of DRIP score on antibiotic stewardship in patients with community acquired pneumonia
Jason Carr (Salt Lake City, United States of America), Michael Lanspa, Brandon Webb, Nathan Dean

Prime-boost, double-dose immunization and immunity to influenza vaccination in COPD
<table>
<thead>
<tr>
<th>Session No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1741</td>
<td>Outcomes of Critically ill Very old patients with Acute Respiratory Distress Syndrome and Community-Acquired Pneumonia</td>
<td>Catia Cilloniz Campos (Barcelona, Spain), Juan Manuel Pericas, Hector Peroni, Albert Gabarrus, Enric Barbetta, Andrea Paloméque, Miquel Ferrer, Antoni Torres</td>
</tr>
<tr>
<td>PA1742</td>
<td>Severity of community-acquired pneumonia in elderly.</td>
<td>Asma Ghourabi (Ariana, Tunisia), Ines Zendah, Chirine Moussa, Houda Rouis, Nour Mahmoud, Soumaya Debbbie, Alya Zaoui, Ibtihel Kouaoua, Amel Khattab, Lamia Bayahi, Habib Ghedira</td>
</tr>
<tr>
<td>PA1743</td>
<td>Respiratory tract infection in centenarians</td>
<td>Christiaan Yu (Clayton, Australia), Ar Aung, Chuan Foo</td>
</tr>
<tr>
<td>PA1744</td>
<td>The impact of Healthcare-Associated Pneumonia in patients admitted in a Northern Portuguese hospital</td>
<td>Lucia Méndez González (Santa Maria da Feira, Portugal), Pedro Castro, Catia Canereas</td>
</tr>
<tr>
<td>PA1745</td>
<td>VAP: Clinicoradiological and microbiological profile &amp; risk-factors for MDR bacterial infection</td>
<td>Swetna Nandy (Kolkata, India), Arunabha Datta Chaudhuri, Sumit Roy Tapadar</td>
</tr>
<tr>
<td>PA1746</td>
<td>Particularities of pneumonia in diabetes patients.</td>
<td>Asma Ghourabi (Ariana, Tunisia), Chirine Moussa, Houda Rouis, Soumaya Debbbie, Nour Mahmoud, Alya Zaouia, Amel Khattab, Ibtihel Kouaoua, Ines Zendah, Habib Ghedira</td>
</tr>
<tr>
<td>PA1747</td>
<td>An Audit of Hospital in the Home Treatment in Respiratory Patients</td>
<td>Mohammed Al Harrasi (Nizwa, Oman), Paul King</td>
</tr>
<tr>
<td>PA1748</td>
<td>A STUDY OF CLINICORADIOLOGICAL AND MICROBIOLOGICAL PROFILE AND BIOMARKERS IN CASES OF COMMUNITY ACQUIRED PNEUMONIA ADMITTED IN A TERTIARY CARE HOSPITAL</td>
<td>BISWAJIT HATI (Berhampore, India), Atin Dey, Somnath Bhattacharya, Mitali Chatterjee</td>
</tr>
<tr>
<td>PA1749</td>
<td>Lymphopenic community acquired pneumococcal pneumonia: Clinical characteristics and outcome</td>
<td>Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Beatriz Gonzalez Quero, Ainhoa Gomez Bonilla, Silvia Perez Fernandez, Alejandro Rezola Carasus, Amaia Artaraz Ereño, Jone Solorzano Santobé, Imanol Gonzalez Muñoz, Pedro Pablo España Yandolía, Rafael Zalacain Jorge</td>
</tr>
<tr>
<td>PA1750</td>
<td>Bacteraemic pneumococcal pneumonia and SARS-CoV-2 pneumonia: differences and similarities</td>
<td>Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Pedro Pablo España Yandolía, Raul Mendez Ocaña, Silvia Perez Fernandez, Eva Tabernero Huget, Ane Uranga Echeverria, Paula Gonzalez Jimenez, Patricia Garcia Hontoria, Rosario Menendez Villanueva, Rafael Zalacain Jorge</td>
</tr>
<tr>
<td>PA1752</td>
<td>The predictive validity for mortality in community-acquired pneumonia of qSOFA was greater than IDSA/ATS minor criteria</td>
<td>Qi Guo (Shenzhen (Guangdong), China), Hai-Yan Li, Wei-Dong Song, Ming Li, Xiao-Ke Chen, Hui Liu, Hong-Lin Peng, Hai-Qiong Yu, Nian Liu, Yan-Hong Li, Zhong-Dong Lü, Li-Hua Liang, Qing-Zhou Zhao, Mei Jiang</td>
</tr>
<tr>
<td>PA1753</td>
<td>Impact on in-hospital mortality of Ceftaroline versus standard of care in Community-Acquired Pneumonia: A Propensity Matched Analysis</td>
<td>Catia Cilloniz Campos (Barcelona, Spain), Raul Mendez, Hector Peroni, Carolina Garcia-Vidal, Veronica Rico, Rosario Menendez, Antoni Torres, Alex Soriano</td>
</tr>
<tr>
<td>PA1754</td>
<td>Outcomes reported in pneumonia randomized controlled trials</td>
<td>Alexander Mathioudakis (Stockport, United Kingdom), Markus Fally, Rebecca Robey, Thomas Williams, Faiuna Haseeb, Ahmed Koula, Paul Dark, Andrew Bentley, Jørgen Vestbo, Tim Felton</td>
</tr>
<tr>
<td>PA1755</td>
<td>Performance of the CORB score for predicting clinical outcomes in community-acquired pneumonia.</td>
<td>Karen Dayanna Pedreros Suarez (Bogotá, Colombia), Alirio Bastidas, Karen D Pedreros, Manuela Herrera, Juan F Frias, Alvaro F. Aguilar, Laura D Saza, Alejandra P. Nonzoque, Laura E. Bello, Maria D. Hernandez, German A Camargo, Anyelmine Jamess, Silvia Ramirez, Natalia Murillo, Luis F Reyes</td>
</tr>
<tr>
<td>PA1756</td>
<td>Hospital acquired pneumonia- what's the score? A scoping &amp; observational study on severity scoring indicies in HAP</td>
<td>Michael Peirson (Beverley, United Kingdom), Peter Kempster, Sion Williams, Damian John McKeon</td>
</tr>
<tr>
<td>PA1757</td>
<td>Rapid syndromic PCR testing in a Norwegian cohort with suspected community acquired pneumonia</td>
<td>Sondre Serigstad (Bergen, Norway), Harleen M.S. Grewal, Marit Ebbesen, Øyvind Kommedal, Dagfinn Markussen, Lars Heggelund, Daniel Faulholt-Jepsen, Christian Ritz, Elling Ulvestad, Rune Bjørneklett, Siri T. Knoop, . Capnor Study Group*</td>
</tr>
</tbody>
</table>
Can sputum induction aid in identifying micro-organisms that cause respiratory tract infections other than tuberculosis? A tertiary care hospital experience.
Ayaz Mohammad Khan (Riyadh 11426, Saudi Arabia), Hamdan Al-Jahdali, Abdullah Harbi, Rajkumar Rajendram, Al-Rhaji Suliman, Sherbini Nahid, Mohammed Alhamadi, Abdula Al-Rashidi

Pre-congress content

Session 229
E-poster: Acute non-invasive respiratory therapies in COVID-19 and beyond

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

Tag(s): COVID

Chairs: Liewue D.J. Bos (Amsterdam, Netherlands), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)

PA1759
CPAP as a useful tool in COVID-19 related acute hypoxemic respiratory failure: Experience from 3 UKhospitals
Niranjan Babu Ananda Setty (Bangalore (Karnataka), India), Yasser Ahmed, Ashraf Roshdy, Duncan Powrie, Dora Amran, Alguili Elsheikh, Sriya Gokaraju, Anne Tear, Maryam Noeman, Maria Darda, Iman El Sayed, Vijayalakshmi Karunanithi, Aarani Mahalingam, Muhammad Shafq, Iman Abdulhalkih, Johnson Samuel

PA1760
Experience with high-flow nasal oxygen therapy in COVID-19 patients on a regular internal medicine ward
Markus Hofer (Zürich, Switzerland), Mark Schmiedskamp, Spencer Rezek, Natalie Ott, Ines Unger, Georg Volk, Jürgen Hetzel

PA1761
The use of pronation associated with non-invasive ventilator support in patients with severe SARS-CoV-2 pneumonia: preliminary data.
Giancarlo Garutti (Modena (MO), Italy), Elisa Businarolo, Rosita Melara, Lorenzo Porrino, Maria Serena Simeone, Valeria Vezzani, Carmela Citione, Maurizio Moretti, Alessandro Pignatti, Rodolfo Murgia

PA1762
Survival rates among COVID-19 patients treated with high flow nasal oxygen therapy with a do-not-intubate-order: an observational study
Illya Smesseim (Hoofddorp, Netherlands), Burak Atasever, Lisa Hessels, Daniel Korevaar, Liewue Bos, Bram Goorhuis, Esther Noscent, Kirsten Mooij-Kalverda, Peter Bonta

PA1763
The impact of embedding trial recruitment into a clinical care pathway
Kay Por Yip (Birmingham, United Kingdom), Simon Gompertz, Catherine Snelson, Jeremy Willson, Shym Madathil, Syed Huq, Farrukh Rauf, Natasha Salmon, Julie Tracey, Brendan Cooper, Kay Filip, Dhruv Parekh, Davinder Dosanjh

PA1764
Non-Invasive Respiratory Support outcomes in patients with SARS-Cov-2 and Respiratory Failure managed in an Acute Respiratory Care Unit (ARCU)
Milan Barik (Hull (North Humberside), United Kingdom), Sarah Boot, Anjali Gondker, Joseph Hogg, Aoc Johnson, Muthu Thirumaran, Husham Elfaki, Akshay Dwarakanath

PA1765
First and second waves results of COVID-19 patients treated with non-invasive respiratory therapies outside the ICU: unincentric, observational study
VIRGINIA Parra León (MADRID, Spain), Daniel López-Padilla, José Rafael Terán Tinedo, Sergio Suárez Escudero, Soledad López Martin, Elena Ojeda Castillejo, Francisco Caballero Segura, Beatriz Recio Moreno, Christian Castro Riera, Luis Puente Maestú

PA1766
A retrospective study of the use of ROX index to predict failure in patients receiving CPAP for COVID-19
Asfandyar Youssuf (Norwich, United Kingdom), David Gottlieb, Aneesh Aggarwal, Bernadette Peacock, Shruthi Konda

PA1767
Risk factors for noninvasive ventilatory support failure in patients with COVID-19 pneumonia
Inês Teixeira Farinha (Maia, Portugal), Alexandra Tenda Cunha, Lidia Gomes, Samuel Pereira, Maria Inês Matias, João Pina Cabral, Christine Canizes, Filipa Costa

PA1768
Predictors of weaning from helmet CPAP in COVID-19: preliminary results from a retrospective observational study
Dejan Radovanovic (Milano (MI), Italy), Stefano Pini, Marina Saad, Luca Perotto, Maurizio Rizzi, Pierachille Santus

PA1769
Early use of Helmet CPAP reduces mortality rate in patients with COVID-19
Francesco Andrani (Piacenza, Italy), Francesco Andrani, Angelo Mangia, Enrica Bucchioni, Sara Chiesa, Paolo Magri, Antonella Ielpo, Silvia Di Stasi, Carlo Cagnoni, Daniela Aschieri, Marco Stabile, Cristina Maestri, Cosimo Franco
CPAP improves oxygen saturation and breathing rate in COVID-19 patients
Mark Schmiedeskamp (Winterthur, Switzerland), Markus Hofer, Spencer Rezek, Ines Unger, Natalie Ott, Georg Volk, Jürgen Hetzel

Monitoring lung mechanics by oscillometry in COVID 19 ARDS receiving non-invasive ventilation: a pilot study
Chiara Veneroni (Milano (MI), Italy), Chiara Torregiani, Paola Confalonieri, Gloria Citton, Francesco Salton, Mohamad Jaber, Marco Confalonieri, Raffaele Dellaca

The impact of the COVID-19 pandemic on a domiciliary non-invasive ventilation (D-NIV) service referral
Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Swapna Mandal

The effect of the COVID-19 pandemic on response times for acute non-invasive ventilation (NIV) set-ups
Rahul Mukherjee (Birmingham (West Midlands), United Kingdom), David Inglis, Pearlene Antoine-Pitterson, Emma Gallagher, Bethany Jones

Validity of APACHE II and SOFA score in Predicting Prognosis in Mechanically Ventilated Patients in Respiratory ICU
Nida Choudhry (Bareilly, India), Lalit Singh, Rajeev Tandon, Utkarsh Khattri

Impact on outcome of non invasive ventilation after extubation
Lilya Debbiche (Rades, Tunisia), Samia Ayed, Selimi Sellauouti, Farouk Daoud, Amira Jamoussi, Emna Rachdi, Fatma Jarraya, Jalila Ben Khell, Mohamed Besbes

Experimental use of CPAP device for emergency high-flow nasal oxygen therapy
Pavol Pobeha (Košice, Slovakia), Jakub Hak, Pavol Joppa

Predictors of persistent hypercapnia after an hypercapnic AECOPD
Jens Bräunlich (Leipzig, Germany), Kristin Turba, Hubert Wirtz

Characteristics of obese patients admitted in a department of pneumology with acute hypercapnic respiratory failure (AHRF): an observational study in a north African population
Ahmed Dhia EL-EUCH (Sfax, Tunisia), Boullah Moustapha, Gargouri Rahma, Kotti Amina, Jdidi Jihen, Moussa Nedia, Jmal Yassin, Ketata Wajdi, Kammoun Samy

Pre-congress content - Session 230 13:15 - 14:15

E-poster: Environment and air pollution

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care Airway diseases Interstitial lung diseases

Method(s): Cell and molecular biology Public health Epidemiology Physiology Pulmonary function testing General respiratory patient care

Chairs: George D. Thurston (New York, United States of America), Aneesa Vanker (Cape Town, South Africa)

Bushfire smoke exposure cause impairment to airway muco-ciliary function
Randy Suryadinata (Parkville, Australia), Paul Martinello, Phil Robinson

Investigation of PM2.5 oxidative potential in the Milan metropolitan area: Impacts of biomass burning emissions
Constantinos Sioutas (Los Angeles, United States of America), Elhsan Soleimanian, Amirhosein Mousavi, Alessandro Borgini, Cinzia De Marco, Ario A. Ruprecht

Environmental factors and mortality by COVID-19 in Brazil
Marilyn Urrutia Pereira (Uruguaiana (RS), Brazil), Luciana Rizzo, Nelson Do Rosário, Hector Basellino, Oscar Calderon, Jose Ignacio Larco, Mario Calvo Gil, Dirceu Solé

Comparison of inhalation and oral exposure to the glyphosate herbicide: effects on respiratory system in rats
Renata C Rossi (Presidente Prudente (SP), Brazil), Débora Cavalheiro Santos, Leticia Cruz Evangelista, Abel Gomes Pinheiro Neto, Debora Tavares Resende Silva, Ana Karina Marques Salge, Gisele Alborghetti Nai, Ana Paula Alves Favareto

Sputum transcriptomic analysis of air pollutant signatures: link to asthma severity and phenotype
Angelica TIOTIU (Nancy, France), Yusef Badi, Hisham Abubakar-Waziri, Ali Versi, Coen Wiegman, Philip M. Hansbro, Sharon Mumby, Sven-Erik Dahlén, Peter Sterk, Ratko Djukanovic, Ian M. Adcock, Kian Fan Chung

Genome-wide SNP-by air pollution interaction and airflow obstruction development in the Dutch population-based Lifelines cohort
Dimitra Sifaki-Pistolla (Heraklion, Greece), Judith M. Vonk, Ioanna Tsiligianni, Marike H. Boezen
PA1785 KIDSCREEN Questionnaires to Identify Respiratory Problems. Exploratory study with 800 people

Telma de Cassia dos Santos Nery (São Paulo (SP), Brazil), Rafael Futoshi Mizutani, Cleide Lopes, Mario Terra Filho, Rafael Stelmach, Ubiratan Paula Santos

PA1786 Air pollution exposure and incidence of asthma and allergic rhinitis in a general population sample

Sofia Tagliaferro (Pisa, Italy), Sara Maio, Sandra Baldacci, Salvatore Fasola, Claudio Gariazzo, Massimo Stafaggiotta, Stefania La Grutta, Francesco Forastiere, Giovanni Viegi

PA1787 Influence of residential land cover on hospitalizations: a population-based study

Sara Maio (Pisa (PI), Italy), Sandra Baldacci, Anna Angino, Sofia Tagliaferro, Isabella Annesi-Maesano, Salvatore Fasola, Stefania La Grutta, Francesco Forastiere, Giovanni Viegi

PA1788 Effects of outdoors and indoors particulate matter 2.5 on COPD: Multicenter prospective observational study

Jin-Young Huh (Republic of Korea), Hajeong Kim, Geunjoo Na, Shinhee Park, Seung Won Ra, Sung-Yoon Kang, Ho Cheol Kim, Hwan-Cheol Kim, Sei Won Lee

PA1790 TRPM8 polymorphisms and peculiarities in seasonal dynamics of asthma control and lung function

Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Elizaveta Sheludko, Dina Gassan, Olesya Kotova, Ivana Sugaylo, Yana Gorchakova, Juliy Perelman

PA1791 Are the lungs of children from polluted Silesia different from the lungs of children from cleaner Pomerania?

Piotr Dąbrowiecki (Warszawa, Poland), Piotr Dąbrowiecki, Artur Badyda, Łukasz Adamkiewicz, Dominika Mucha, Andrzej Chciałowski

PA1792 Microplastics inhalation: evidence in human lung tissue

Luis Fernando Amato-Lourenco (Osasco, Brazil), Regiani Carvalho Oliveira, Gabriel Ribeiro Junior, Luciana Dos Santos Galvao, Romulo Augusto Ando, Thais Maud

PA1793 An Evaluation of the Impacts of the Closure of a Coking Operation on Local Residents – An Interrupted Time Series Analysis

Wuyue Yu (New York, United States of America), George Thurston

PA1794 LSC - 2021 - COL4A3 expression in asthmatic epithelium depends on intronic methylation and ZNF263 binding

Sai Sneha Priya Nemani (Lübeck, Germany), Cornelis Joseph Vermeulen (vermeulen.corneel@gmail.com / University Medical Center Groningen, Pulmonary Diseases Hanzeplein 1 Groningen, Groningen, NL, NL-9700 RB, Groningen), Martin Pech (pech.martin@web.de / Children`s Hospital, University of Luebeck, Pediatric Pulmonology Luebeck, Schleswig-Holstein, DE, Lübeck), Alen Faiz (Alen.Faiz@uts.edu.au / University of Groningen, University Medical Center Groningen, Department of Pulmonary Diseases, GRIAC (Groningen Research Institute for Asthma and COPD) Groningen, Groningen, NL, Groningen), Brian George G. Oliver (brian.oliver@uts.edu.au / University of technology sydney, NSW, AUS 2000, New South Wales), Maarten Van Den Berge (m.van.den.berge@umcg.nl / University medical center Groningen, Pulmonary Diseases Hanzeplein 1 Groningen, Groningen, NL, Groningen), Janette Kay Burgess (j.k.burgess@umcg.nl / University Medical Center Groningen, Pathology and Medical Biology Hanzeplein 1 Groningen, Groningen, NL, 9713 GZ, Groningen), Matthias Kopp (matthias.kopp@uksh.de / Children’s Hospital, University of Luebeck, Pediatric Pulmonology Luebeck, Schleswig-Holstein, DE, Lübeck), Markus Weckmann (markus.weckmann@uksh.de / Children’s Hospital, University of Luebeck, Pediatric Pulmonology Luebeck, Schleswig-Holstein, DE, Lübeck)

PA1795 LSC - 2021 - Ambient PM2.5 Exposure and Respiratory Disease Hospitalization in Kandy, Sri Lanka.

Gaynan Bowatte (Reservoir, Australia), Sahith Priyankara (tmspriyankara@gmail.com / National Institute of Fundamental Studies,Kandy), Duminda Yasaratne (yasaratne@yahoo.com / University of Peradeniya,Kandy), Rohan Jayaratne (r.jayaratte@qut.edu.au / Queensland University of Technology,Brisbane), Mahesh Senaratne (smdmaheshchamika@gmail.com / National Institute of Fundamental Studies,Kandy), Sachith Abeyrathna (sachith.me@gmail.com / University of Peradeniya,Kandy), Rohan Weerasinghe (rohan.we@ifis.ac.lk / National Institute of Fundamental Studies,Kandy), Lidi Morawaska (l.morawaska@qut.edu.au / Queensland University of Technology,Brisbane), Luke Knibbs (l.knibbs@qut.edu.au / The Queensland University,Brisbane), Dushantha Madedegedara (dmadedegedara@yahoo.com / National Hospital, Kandy,Kandy), Shyamali Dharmage (s.dharmage@unimelb.edu.au / The University of Melbourne,Melbourne)

PA1796 Respiratory patients awareness of the risks for health posed by air pollution

Ignasi Garcia Olívé (Badalona, Spain), Toni Zapata, Adela Gonzalez, Marina Compte, Alan Jhunior Solis, Magali Arago, Susana Diaz, Pilar Aluja, Laura Pujol, Jorge Abad, Antoni Rosell

PA1797 Effects of traffic-related air pollution on airway epithelial transcriptome in older adults with and without COPD: a controlled human exposure study

Min Hyung Ryu (Vancouver (BC), Canada), Shijia Li, Ryan Donald Huff, Chris Carlsten

PA1798 Late Breaking Abstract - Ambient air pollution and respiratory health in sub-Saharan African children: a cross-sectional analysis

Yutong Cai (London, United Kingdom), Harry Gibson, Kazem Rahimi
Pre-congress content Session 231 13:15 - 14:15

E-poster: Innovations in nurse-led interventions in respiratory diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Thoracic oncology, Pulmonary vascular diseases

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

Chairs: Marco Clari (TORINO, Italy), Maria Granados Santiago (Alcaudete, Spain)

PA1799 The impact of an admission avoidance rapid response respiratory car in collaboration with the Northwest Ambulance Service
Emma Rickards (St Helens (Merseyside), United Kingdom), Lisa Ascough, Sarah Sibley, Onnor Hampson, Elaine Gossage

PA1800 Is an informative application a suitable tool for patients in a diagnostic lung cancer program? A qualitative study
Helle Marie Christensen (Tommerup, Denmark), Stephanie Paag Svane, Hanne Madsen

PA1801 Title: Eligible COPD patients and access to pulmonary rehabilitation in a Portuguese region
Liliana Celeste Faria Silva Ribeiro (São Mamede de Infesta, Portugal), Joana Faia, Patricio Costa, Lara Lemos, Angela Mota, Mariana Santos, Miguel Padilha

PA1802 Health-psychologic features and health-related quality of life in persons with severe asthma
Lina Rönneberg (Höviksnäs, Sweden), Malin Axelsson, Hannu Kankaanranta, Bo Lundbäck, Linda Ekerljung

PA1803 Patient perspective of participation in COVID-19 clinical trials
Karolina Krassowska (Headington, United Kingdom), Christine Mwasuku, Sanjay Ramakrishnan, Beverly Langford, Helen Jeffers, Mahdi Mahdi, Richard Russell, Mona Bafadhel

PA1804 Limitation of daily activities as predictors of caregiver burden of severe COPD patients
Maria Granados Santiago (Alcaudete, Spain), Alejandro Heredia Ciuró, Laura López López, Andrés Calvache Mateo, Natalia Muñoz Vigueras, Marie Carmen Valenza

PA1805 Rethinking COPD Exacerbations: a global patient perspective
Chris Mwasuku (Oxford, United Kingdom), Karolina Krassowska, Courtney Coleman, Pippa Powell, Mona Bafadhel

PA1806 Use of Clinical Nurse Specialists in the Management of Incidental Pulmonary Nodules
Marcus Anthony Pittman (Basildon (Essex), United Kingdom), Samantha Bloxham, Hannah Storey, Janet Kohn, Ousman Jallow, Alice Ncube, Joanne Peacock

PA1807 A training needs analysis of UK respiratory nurses’ research capability and capacity.
Emma Ray (Romsey, United Kingdom), Carol Kelly, David Culliford, Lindsay Welch

PA1808 The role of nurses in the home management of pulmonary arterial hypertension. A literature review
Sara Campagna (Torino, Italy), Alessio Conti, Walter Grosso Marra, Valerio Dimonte, Marco Clari

Pre-congress content Session 232 13:15 - 14:15

E-poster: Physical activity, exercise training and (tele)rehabilitation in respiratory patients

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Pulmonary rehabilitation, General respiratory patient care, Epidemiology, Transplantation, Respiratory intensive care, Pulmonary function testing

Tag(s): COVID, Digital health

Chairs: Carlos Augusto Marcal Camillo (Londrina (PR), Brazil), Ana Oliveira (Hamilton, Canada)

PA1809 Exacerbations and changes in physical activity and sedentary behaviour in patients with bronchiectasis after 1 year
Victoria Alcaraz Serrano (Barcelona, Spain), Ane Arbillaga, Patricia Oscanoa, Laia Fernández, Leticia Bueno, Rosanel Amaro, Elena Gimeno, Antoni Torres

PA1810 Physical activity and mortality risk in people with interstitial lung disease: a systematic review and meta-analysis
Vânia Rocha (Aveiro, Portugal), Cátia Paixão, Alda Marques
Patients with COPD have more self-efficacy for physical activity than other patients with chronic lung diseases
Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuyts, Lies Glorie, Thessa Verniest, Nikolaas De Maeyer, Robin Vos, Wim Janssens, Wim Wuys, Thierry Troosters, Heleen Demeyer

Comparison of physical activity patterns among three major chronic respiratory diseases – Preliminary Results
Leandro Mantoani (Londrina, Brazil), Carlos Augusto Camillo, Joice Mara De Oliveira, Claudia Polastri, Cassiana Cruz, Lorena Paltanin Schneider, Camile Ludovico Zamboti, Karina Couto Furlanello, Fabio Pitta

Unsupervised physical activity interventions for people with COPD: a systematic review
Cátia Paixão (Guarda, Portugal), Vânia Rocha, Dina Brooks, Alda Marques

Validity of the International Physical Activity Questionnaire in adults with asthma
Joice Mara Oliveira (Londrina, Brazil), Thamyres Sposito, Diery Fernandes Rugila, Natielly Soares Correia, Luiz Daniel Barizon, Natalia Yukie Vicentin Toda, Natalia Neves Moreira, Fabio Pitta, Karina Couto Furlanello

Physical activity level in patients with bronchiectasis: a systematic review of determinants and outcome measures
Cigdem Emirza (Istanbul, Turkey), Pelin Tiryaki, Begüm Kara Kaya, Elçin Akyurek, Goksen Kuran Aslan

Motivation and physical activity in COPD: an exploratory study
Joana Cruz (Leiria, Portugal), Sara Pimenta, Sofia Flora, Cândida G. Silva, Ana Oliveira, Nuno Morais, José Ribeiro, Fernando Silva, Rüben Caeceiro, Bruno P. Carreira, Filipa Januário, Lília Andrade, Fátima Rodrigues, Dina Brooks, Chris Burtin, Alda Marques

Physical activity during and after a severe acute exacerbation of COPD
Kirsten Quadflieg (Maasmechelen, Belgium), Ana Machado, Fabiano De Lima, Marc Daenen, David Ruttens, Michiel Thomeer, Martijn Spruit, Chris Burtin

Effects of Telerehabilitation on Peripheral Muscle Function in Pediatric Cystic Fibrosis Patients During Covid-19 Pandemic
Naciye Vardar Yağlı (Ankara, Turkey), Kübra Kiluç, Dilber Ademhan-Tural, Birce Sunman, Beste Ozsezen, Deniz Dogru, Melda Saglam, Ebru Calik-Kutukcu, Deniz Inal-Ince, Nural Kiper

Clinical effectiveness of Tele-Pulmonary rehabilitation: a comparative study to face pulmonary rehabilitation. Kola Akinlabi (London, United Kingdom), Ken Johnston, Binny Patel, Bunmi Adejobi, Radoslav Trojak, Akshita Patel, Gavin Sandercock

Video based telerehabilitation: patient acceptability and experience in chronic respiratory disease
Ken Johnston (London, United Kingdom), Binny Patel, Akshita Patel, Radoslav Trojak, Bunmi Adejobi, Kola Akinlabi

The effects of neuromuscular electrical stimulation on muscle strength, functional capacity, and quality of life among older patients with asthma
Elif Develi (Istanbul, Turkey), Rasmi Muammer, Yasar Kucukardali

Effects of combined aerobic and resistance physical training on pulmonary and respiratory muscle function in diabetics with overweight and obesity
Eli Forti (Capivari, Brazil), Tamires Alessa De Mori, Ivan Luiz Padilha Bonfante, Renata G. Duft, Mara Patricia Chacon-Mikahl, Claudia Regina Cavaglieri

Rapid Access Rehabilitation after exacerbations of COPD – A qualitative study
Ana Oliveira (Hamilton, Canada), Shirley Quach, Sanaa Alsabheen, Dina Brooks, Jan Walker, Roger Goldstein

Outcomes and measures of pulmonary rehabilitation in patients with COPD: a systematic review
Sara Souto-Miranda (Aveiro, Portugal), Guilherme Rodrigues, Martijn Spruit, Alda Marques

Responses to Two Different High-Intensity Interval Exercise Training Protocols on Pulmonary Function and Respiratory Muscle Strength In Diabetes Mellitus
Cemile Bozdemir Ozel (Eskisehir, Turkey), Hulya Arikan, Ebru Calik Kutukcu, Beyza Nur Karaduz, Deniz Inal Ince, Giray Kabakci, Selcuk Dalgelen

Barriers and challenges to deliver pulmonary rehabilitation among physiotherapist: results of a first national survey in Lebanon
Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova

HYPERCAPNIA AND FUNCTIONAL IMPROVEMENTS DURING PULMONARY REHABILITATION.
Camilo Corbellini (Rivoli (TO), Italy), Saverio Tavella, Elisa Gugliotta, Stefano Zampese, Eleuterio A. Sanchez Romero, Jorge Villafane
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): General respiratory patient care Pulmonary function testing Imaging Epidemiology

Chairs: Chin Kook Rhee (Seoul, Republic of Korea), Carolina Maria Gotera Rivera (Madrid, Spain)

**PA1828**
Cross-sectional study on therapeutic adherence and disease knowledge of patients affected by chronic obstructive pulmonary disease.
Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Vince Fazekas-Pongor, Gergo Szollosi, Maria Kerti

**PA1829**
Sugar coating hypoxia – Metformin risks?
David Barber (Warrington , United Kingdom), Claire Barber, Dennis Wat, Nikki Glover

**PA1830**
Influence of government-driven quality assessment program on patients with chronic obstructive pulmonary disease
Hye Jung Park (Seoul, Republic of Korea), Sung-Ryeol Kim, Sinae Kim, Hye Sun Lee, Bo Yeon Kim, Hye Kyoun Kim, Sang In Ahn, Ji Hyeon Shin, Jae-Hyun Lee, Jung-Won Park

**PA1831**
Effect of physical position on peak inspiratory flow in stable COPD
Michael B. Drummond (Chapel Hill, United States of America), Ashley G. Henderson, Asif Shaikh, Valentina Bayer, Roy A. Pleasants

**PA1832**
Endobronchial valve lung volume reduction and small airways function
Justin Leo Garner (Brentwood (Essex), United Kingdom), Martyn F Biddiscombe, Sally Meah, Adam Lewis, Sara C Butterly, Nick S Hopkinson, Samuel V Kemp, Omar S Usmani, Pallav L Shah, Sylvia Verbanck

**PA1833**
Long-term effect of alpha-1-antitrypsin augmentation therapy on the decline of FEV1 in deficient patients
Iris G. M. Schouten (Leiden (ZH), Netherlands), Marise J. Kastelein, Robert Bals, Alice M. Turner, Ilaria Ferrarotti, Angelo G. Corsico, Beatriz Lara Gallego, Marc Miravitlles, Robert A. Stockley, Jan Stolk

**PA1834**
Baseline characteristics of patients enrolled in the EARCO prospective registry of alpha-1 antitrypsin deficiency: preliminary results.
Alice Turner (Birmingham (West Midlands), United Kingdom), Maria Torres, José Luis López-Campos, Catarina Guimaraes, Joana Chorostowska-Wynimko, Robert Bals, Ilaria Ferrarotti, Gerard Mcelvaney, Karen O'Hara, Jan Stolk, Robert Stockley, Marion Wilkens, Christian Clarenbach, Timm Greulich, Marc Miravitlles

**PA1835**
Impact of COVID-19 on treatments’ dispensations for chronic airways diseases in France
Arnaud Bourdin (Montpellier Cedex 5, France), Milka Maravic, Lucas Perray, Nicolas Roche

**PA1836**
Treatment with inhaled corticosteroids in COPD groups GOLD A and B –relationship to clinical state in the COSYCONET cohort
Kathrin Kahnert (München, Germany), Rudolf Jörges, Franziska Trudzinski, Peter Alter, Christina Kellerer, Henrik Watz, Tobias Welle, Robert Bals, Diego Kauffmann-Guerrero, Jürgen Behr, Rolf Holle, Claus Vogelmeier, Johanna Lutter

**PA1837**
Efficacy perception and prescription of treatments for refractory/unexplained chronic cough by Spanish physicians
Luis Puente Maestu (Madrid, Spain), Jesús Molina-París, Juan A. Trigueros, J. Tomás Gómez-Saenz, Sabela Fernandez, Marta Sánchez-Jareño, Luis Cea-Calvo, Javier Domínguez-Ortega

**PA1838**
Association between COPD exacerbations and acute cardiovascular events: a systematic literature review
Hana Müllervá (Ickenham, United Kingdom), Jonathan Marshall, Enrico De Nigris, Precil Varghese, Nick Pooley, Nina Embleton, Zoe Marjenberg

**PA1839**
Effect of nocturnal oxygen therapy on daytime pulmonary hemodynamics in patients with COPD travelling to altitude. RCT.
Stéphanie Saxer (Zürich, Switzerland), Mona Lichtblau, Tsogyal Latshang, Sayaka Aeschbacher, Fabienne Huber, Philipp Schweinwiller, Stefanie Ulrich, Simon Schneider, Elisabeth Hasler, Michael Furian, Konrad Bloch, Silvia Ulrich

**PA1840**
Superior laryngeal nerve block in chronic refractory cough
Caroline Wright (South Cave, United Kingdom), Caroline Wright, Kayleigh Brindle, Rachel Thompson, Alyn Morice

Pre-congress content Session 234 13:15 - 14:15

E-poster: Lung function testing in the management of obstructive diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Airway diseases
Method(s): Pulmonary function testing  General respiratory patient care  Public health  Imaging  Epidemiology  Physiology
Chairs: Manlio Milanese (Pietra ligure (SV), Italy), Eric Derom (Ghent, Belgium)

PA1841  Analysis of spontaneous breathing can predict abnormal lung function in asthma
Fabien Beaufils (Bordeaux, France), Pierre-Olivier Girodet, Christophe Pison, Patrick Hanusse, Julie Joie, Thomas Similowski, Pierantonio Laveneziana, Roger Marthan, Patrick Berger

PA1842  Active asthma and longer disease duration associated with more hyperinflation and increased diffusion capacity – TRAIL Cohort
Oliver Djurhuus Tupper (Søborg, Denmark), Conrad Uldall Becker Schultz, Charlotte Suppli Ulrik

PA1843  Airway hyperresponsiveness in adult patients with and without allergies
Gunta Strazda (Riga, Latvia), Normunds Jurka, Olga Madaja, Immanuels Taivans

PA1844  The Frequency of Small Airway Dysfunction and Its Relationship with Disease Control in Chronic Airway Diseases
Demet Polat Yuluğ (Mersin, Turkey), Sibel Atış Naycı, Bahar Taşdelen, Eylem Sercan Ozgur, Cengiz Ozge

PA1845  Comparison of two forced oscillation devices in adults with respiratory disorders
M.R.C. Crutsen (Wittem, Netherlands), J.J.A. Baars, L.H. Conemans, S.O. Simons

PA1846  The effect of diurnal variation in exercise-induced bronchoconstriction
Andrew Rowe (Gaatstown, Ireland), Nicholas Mahony, Neil Fleming

PA1847  Association between seasonal patterns of the airway response to humid air and dynamics of lung function and disease control in asthma patients
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Evgenia Y. Afanaseva, Olesya O. Kotova, Dina A. Gassan, Elizaveta G. Sheludko, Anna G. Prikhodko

PA1848  Relationship between respiratory exchange ratio and pulmonary function in patients with obstructive lung disease
Jang Woo Lee (Goyang-si, Republic of Korea), So Myoung Jeon, Seong-Woong Kang, Yewon Lee

PA1849  Salbutamol or ipratropium bromide: does gender and age influence the response to drugs?
Liliana Raposo (Queijas, Portugal), Raquel Barros, Ana Sofia Oliveira, Cristina Barbara

PA1850  Improving the appropriate use of Mannitol challenge testing in a large teaching hospital.
Jessica Bradley (Leeds, United Kingdom), Lauren Lear, Tim Sutherland

PA1851  Asthma and peripheral airway obstruction
Raquel Barros (Lisboa, Portugal), Ana Sofia Oliveira, Cristina Bárbara

PA1852  Use of Lung Clearance Index (LCI) to distinguish asthmatics within a symptomatic population.
Laura Healy (Manchester, United Kingdom), Clare Murray, Angela Simpson, Stephen Fowler, Sarah Drake, Ran Wang, Lisa Willmore, Joanne Sale, Rhys Tudge, Gina Kerry, Lesley Lowe, Alex Horsley

PA1853  Bronchodilator responsiveness over time in SPIROMICS: Clinical characteristics
Christopher B. Cooper (Los Angeles, United States of America), Spiros Fortis, David Couper, Miguel Quibrera, Mehrdad Arjomandi, Igor Barjaktarevic, Graham Barr, Surya Bhatt, Russell Bowler, Jeffrey Curtis, Mark Dransfield, Brad Drummond, Meilan Han, Nadia Hansel, Annette Hastie, Eric Hoffman, Richard Kanner, Victor Kim, Jerry Krishnan, Stephen Lazarus, Fernando Martinez, Victor Ortega, Robert Paine, Stephen Peters, Stephen Rennard, Donald Tashkin, Prescott Woodruft, Wayne Anderson

PA1854  Prevalence of pre-operative airflow obstruction in high risk patients without prior COPD diagnosis
Tom Chambers (London, United Kingdom), William Ricketts, Richa Singh, Mevan Gooneratne

PA1855  Changes in FEV1 and SpO2 in patients with severe and very severe COPD
Anne Hildur Henriksen (Trondheim, Norway), Anine Rabe, María Bjørerstad Ringset

PA1856  Prediction of lung emphysema in COPD by spirometry and clinical symptoms: results from COSYCONET
Kathrin Kahntert (München, Germany), Rudolf Jöres, Antonius Schneider, Peter Alter, Hans-Ulrich Kauezor, Bertram Jobst, Jürgen Biederer, Robert Bals, Henrik Watz, Jürgen Behr, Diego Kaufmann-Guerrero, Johanna Lutter, Alexander Hapfelmeier, Helgo Magnussen, Franziska Trudzinski, Tobias Welle, Claus Vogelmeier, Christina Kellerer

PA1857  Duration and frequency of spirometry needed to accurately reflect longitudinal change of FEV1 in COPD
Jared Wilkinson (Los Angeles, United States of America), Igor Barjaktarevic, Holly Wilhalme, Christopher Cooper, Donald Tashkin
Classification of lung function trajectories in SPIROMICS
Wayne Anderson (Chapel Hill, United States of America), Miguel Quibrera, David Couper, Mehrdada Arjomandi, Igor Barjaktarevic, Graham Barr, Surya Bhatt, Mark Dransfield, Bradley Drummond, Meilan Han, Nadia Hansel, Annette Hastie, Eric Hoffman, Richard Kanner, Victor Kim, Stephen Lazarus, Victor Ortega, Robert Paine, Stephen Rennard, Donald Tashkin, Prescott Woodruff, Christopher Cooper

Improved spirometric index to discriminate the severity of centrilobular emphysema
Takafumi Shimada (Tsukuba, Japan), Hiroaki Iijima, Yusuke Shiraishi, Fumi Mochizuki, Takashi Naito, Hiroshi Shima, Kunihiko Terada, Susumu Sato, Shigeo Muro, Toyohiro Hirai, Nobuyuki Hizawa, Naoya Tanabe

Posture-induced changes in vital capacity are associated with COPD outcomes independent of airflow obstruction in SPIROMICS

Pre-congress content Session 235 13:15 - 14:15
E-poster: Pulmonary neoplasia and related pathologies
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Imaging, Epidemiology, Pulmonary function testing, Endoscopy and interventional pulmonology, General respiratory patient care

Chairs: Anand Devaraj (London, United Kingdom), Tiziana Patrizia Cremona (Bern, Switzerland)

Detection of Overlooked Pulmonary Metastases in Serial CT Scans through Deep Learning-based Tracking of Longitudinal Changes
Junghoon Kim (Seongnam-si, Gyeonggi-do, Republic of Korea), Dong Yul Oh, Kyong Joon Lee

Radiology quality assurance in a lung cancer screening trial
Claire Bradley (letterkenny, Ireland), Martyn Kennedy, Michael Darby, Philip A J Crosbie, Rhian Gabe, Matthew E J Callister

Comparative analysis of the detecting nodule or mass in the lungs on the chest X-ray by the doctor and the automatic digital X-ray analysis program
Uliana Smolnikova (Saint Petersburg, Russian Federation), Pavel Gavrilov

Emphysema as a 'radiomic-biomarker’ using low-dose computed tomography scans in high-risk smokers in an Australian cohort
Samantha Ennis (Sydney, Australia), Emily Stone, Elizabeth Silverstone, Brad Milner, Henry Marshall, Kwun Fong, Katrina Tonga

Emphysema subtypes and Preserved Ratio Impaired Spirometry in smokers
YUSUKE SHIRAISHI (Kyoto city, Japan), Naoya Tanabe, Takafumi Shimada, Kunihiko Terada, Hiroshi Shima, Fumi Mochizuki, Hiroaki Iijima, Motonari Fukui, Susumu Sato, Toyohiro Hirai

EARLY DIAGNOSIS OF LUNG VENTILATION EVENNESS DISORDERS USING NONINVASIVE IMAGING
Vyacheslav Kobylyansky (Moscow, Russian Federation), Aleksandra Horosheva, Kristina Solodovnikova

A value of ultrasonographic predictors of malignancy in left adrenal gland in lung cancer patients – a comparison of EUS-h, CT and PET-CT
Maciej Gnass (Myślenice, Poland), Stanisław Orzechowski, Damian Czyżewski, Jacek Wojtacha, Juliusz Pankowski, Wojciech Zając, Adam Cmiel, Marcin Zielinski, Artur Szlubowski

Application of technetium-99m-technetil in differentiation of active from inactive pulmonary tuberculosis using a single photon emission computed tomography method in children.
Stanislav Mikhaylov (Moscow, Russian Federation), Andrey Perfiliev, Natala Yukhimenko, Natalia Karpina, Rasul Amanskakhedov, Atadzhan Ergeshov, Larisa Rusakova

Correlation between histological yield of intrathoracic nodal EBUS biopsy and SUVmax in 18F-FDG PET scan
Shahbaz Nazir (Cottingham, United Kingdom), Samiha Naureen, Sega Pathmanathan
PA1870
PD-1L expression correlation with metabolic parameters of 18F FDG PET/CT in nonsmall cell lung cancer
Aysu Sinem Koç (Izmir, Turkey), Elife Akgün, Reşit Akyl, Barış Demirkol, Kürşad Nuri Baydili, Pınar Akın Kabalak, Özlem Ozmen, Şebnem Batur, Ayşan Büge Öz, Ülki Yılmaz, Funda Demir, Nalan Akyürek, Erdoğan Çetinkaya

PA1871
Automated volumetric quantification of lung emphysema: the effect of bronchiectasis and infectious lung destruction.
Nadezda Griva (Saint-Petersburg, Russian Federation), Pavel Gavrilov

PA1872
A comparison of 129Xe MRI and advanced lung function testing in patients with asthma and/or COPD: The NOVELTY ADPro substudy
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Laurie Smith, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Joshua Astley, Ryan Munro, Smitha Rajaram, Dave Capener, Jody Bray, Ian Smith, Leanne Armstrong,Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim Wild

PA1873
COPD and Asthma Differentiation using Quantitative CT Biomarkers by Hybrid Feature Selection and Machine Learning
Amir Moslemi (Toronto, Canada), Konstantina Kontogianni, Miranda Kirby, Judith Brock, Franziska Trudzinski, Felix JF Herth

PA1874
Airway tree caliber across the adult lifespan
Motahareh Vameghestahbanati (Montreal, Canada), Eric Hoffman, Miranda Kirby, Jessica Sieren, Norrina Allen, Alain Bertoni, Christopher Cooper, David Jacobs, Qutayba Hamid, Meilan Han, Nadia Hansel, James Hogg, Dennis Jensen, Richard Kanner, Erin Michos, Elizabeth Oelsner, Coralynn Sack, Karol Watson, David Couper, Andrea Benedetti, Prescott Woodruff, Jean Bourbeau, Wan Tan, R. Graham Barr, Benjamin Smith

PA1875
Airway tree caliber heterogeneity and airflow obstruction
Motahareh Vameghestahbanati (Montreal, Canada), Leina Kingdom, Matthew Anacleto-Dabarno, Eric Hoffman, Miranda Kirby, Norrina Allen, Elsa Angelini, Alain Bertoni, Qutayba Hamid, James Hogg, David Jacobs, Andrew Laine, Francois Maltais, Erin Michos, Coralynn Sack, Don Sin, Karol Watson, Artur Wysoczanski, Wan Tan, Jean Bourbeau, R. Graham Barr, Benjamin Smith

PA1876
3D image analysis of the alveolar shape in human lungs
Alex Michael Reimelt (Hannover, Germany), Dragoš M. Vasilescu, Richard Beare, Lars Knudsen, Roman Grothausmann

Pre-congress content
Session 236  13:15 - 14:15
E-poster: Fungi, viruses, parasites and the immunocompromised
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Respiratory critical care
Method(s): General respiratory patient care  Public health  Endoscopy and interventional pulmonology  Cell and molecular biology  Surgery  Transplantation  Respiratory intensive care  Imaging  Epidemiology
Chairs: Sanjay Haresh Chotirmall (Singapore, Singapore), Anand Shah (London, United Kingdom)

PA1877
The clinical significance of Aspergillus-positive respiratory samples
Katrina Pihlajamaa (HUS (Helsinki), Finland), Veli-Jukka Anttila, Ulla Hodgson

PA1878
Prognostic Factors for Mortality in Chronic Pulmonary Aspergillosis -Experience in Japan-
Hitomi Hirano (Ibaraki, Japan), Kenji Nemoto, Kai Kawashima, Hisayuki Oshima, Yuki Yabuuchi, Takafumi Shimada, Yuka Kitaoka, Naoki Arai, Kentaro Hyodo, Atsuhito Nakazawa, Jun Kanazawa, Yukiko Miura, Shuji Oh-Isi, Kenji Hayashihara, Takefumi Saito

PA1879
Healthcare utilisation and impact of antifungal stewardships within respiratory care settings: a systematic literature review
Salma Aldossary (Riyadh, Saudi Arabia), Anand Shah

PA1880
Mini-bronchoalveolar lavage for diagnosing COVID-19 associated invasive pulmonary aspergillosis.
Manon Vanbellinghen (Amsterdam (NH), Netherlands), Burak Atasever, Hans Van Der Spoe, Catherine Bouman, Karin Van Dijk, Josje Altenburg

PA1881
Surgical management of massive hemoptysis secondary to lung hydatidosis: tips and tricks
Abdessalem Hentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Walid Abid, Imed Frika

PA1882
Invasive fungal infections in acute leukemia patients.
Aslı Öncel (Ankara, Turkey), Yahya Buyukasik, O rumr Umuz, Ahmet U gur Demir, Lutfi Coplu

ERS Virtual International Congress 2021
DETAILED PROGRAMME
MONDAY 06 SEPTEMBER, 2021
### Utility of bronchoscopy in hematopoietic stem cell transplant (HSCT) patients with pulmonary infiltrates: A prospective study.

Mohammed Alhajji (Riyadh, Saudi Arabia), Abdallah Mobeireek, Mohammed Al Hajji, Ihab Weheba, Saud Alsaleh, Walid Rasheed, Liju Ahmed

### Surveillance for invasive pulmonary aspergillosis in critically ill patients with COVID-19


### To study the utility of Respiratory Biofire in the management of adults with acute respiratory infections

Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Viral Nanda, Camilla Rodriques

### Pulmonary infections in renal transplant recipients from tertiary care hospital, SIUT Pakistan

Muhammad Jawwad Nazmi (Karachi, Pakistan), Fakhir Haidri, Sohail Akhtar, Sunil Dodani, Ali Nadeem, Sobia Arbab, Isra Ifitikhar, Jawwad Shah, Tahir Aziz, Adib Rizvi

### Surgical management of lung hydatid cysts ruptured to the pleura

Imen Bouassida (Ariana, Tunisia), Mariem Hadj Dahmane, Bechir Ben Radhia, Amina Abdelkбир, Sarra Maazaoui, Mouna Milka, Hazem Zrbi, Sarra Zairi, Adel Marghli

### Clinical and radiological features of secondary pleural hydatidosis

Ahmed Dhia EL-EUCH (Sfax, Tunisia), Med Jemine Sidi Oumar, Moussa Nedia, Gargouri Rahma, Kallel Nesrine, Kotti Amina, Bahluo Najla, Feki Walid, Msaed Sameh, Yangui Ilhem, Hajer Ayedi, Wadij Ketata, Kammoun Samy

### Lung and HIV

Rajae Cherkaoui (CASABLANCA, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam Elkhattabi, Hicham Afif

### Clinical characteristic differences between pulmonary melioidosis and pulmonary tuberculosis with cavitary lesion

Ho Lam Nguyen (Hồ Chí Minh, Vietnam), Huyen Duong-Thanh, Hoa Le, Nhat-Thinh Le-Phu

### Estrogen deficiency and its manifestations in pregnant women with exacerbation of chronic simple bronchitis of cytomegalovirus etiology

Igor N. Gorikov (Blagoveschensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Natalia A. Ishutina, Inna V. Dovzhikova, Ksenia K. Petrova, Nikolay G. Prikhodko, Valentina I. Pavlenko, Victor P. Kolosov

### Proinflammatory cytokines in the blood of pregnant women with different courses of chronic simple bronchitis of cytomegalovirus etiology

Igor N. Gorikov (Blagoveschensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Natalia A. Ishutina, Inna V. Dovzhikova, Nikolay N. Dorofienko, Nikolay G. Prikhodko, Valentina I. Pavlenko

### Evaluation of two prognostic scoring systems for respiratory syncytial virus infection in a French multicentre cohort of allogeneic hematopoietic stem cell transplant recipients


### CRAX index for prediction of morbidity among hospitalized patients with Influenza (A) H1N1 infection

M. D. Varunn (Gobichettipalayam (Tamil Nadu), India), R Karthikeyan, K Anupama Murthy, S Sharanya Shree

### Impact of the revised EORTC/MSGERC 2020 criteria upon prognosis in patients with hematologic malignancies undergoing bronchoscopy

Nilüfer Aytin Acet Özütkür (Bursa, Turkey), Nilüfer Aytin Acet Öztürk, Dilara Ömer Topçu, Kübra Vurat Acar, Özge Aydin Güclü, Ibrahim Ethem Pınar, Ezgi Demirdoğan, Aslı Görek Dilektaşlı, Esra Kazak, Vildan Özkokcaman, Ahmet Ursavas, Halis Akalın, Fahir Özkalementaş, Beyza Ener, Ridvan Ali

---

**Pre-congress content**

**Session 237  13:15 - 14:15**

**E-poster: Occupational rhinitis and asthma**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care, Epidemiology, Public health, Physiology, Imaging, Cell and molecular biology, Pulmonary function testing

**Tag(s):** Digital health

**Chairs:** Joaquin Sastre Dominguez (Tres Cantos (Madrid), Spain), Orianne Dumas (Villejuif, France)
| PA1896 | A qualitative study of the barriers facing primary healthcare professionals in identifying occupational asthma | Gareth Walters (Birmingham (West Midlands), United Kingdom), Christopher Michael Barber |
| PA1897 | Visible moulds, non-allergic and allergic rhinitis and asthma in adults: the EGEA study | Laurent Orsi (Paris, France), Marine Savouré, Jean Bousquet, Bénédicte Jacquemin, Valérie Siroux, Marrita S. Jaakkola, Jouni J.K. Jaakkola, Benedicte Leynaert*, Rachel Nadif* |
| PA1898 | Chronic rhinosinusitis and occupational exposures | Jordan Minov (Skopje, North Macedonia), Sasho Stolesski, Dragan Mijakoski, Dragana Bislimovska, Aneta Atanasovska |
| PA1899 | Occupational asthma in school teachers | Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Christopher Huntley, Alastair Robertson, Gareth Walters |
| PA1900 | Differences in clinical characteristics between irritant-induced and sensitizer-induced occupational asthma | Jussi Lantto (Helsinki, Finland), Irmeli Lindström, Hille Suojalehto |
| PA1901 | Quantitative CT adiposity metrics as predictors of reduced expiratory flow in WTC workers and volunteers | Mehmet Fatih Elverisli (Düzce, Turkey), Pınar Yıldız Gülhan, Merve Ergelik, İbrahim Ethem Şahin, Ege Güleç Balbay, Seyit Çoban, Halil Mehmet Karav, Dilșad Mungan, Peri Meram Arbak |
| PA1902 | The role of IL 4, 5, 10, 13 and 8 Values in The Early Detection of Occupational Asthma Disease | Joseph PYANA KITENGE (Lubumbashi, Democratic Republic of the Congo), Paul Musa Obadia, Trésor Caris Kuhangana, Tony Kayembe-Kitenge, Patient Nkulu Banza, Lilian Nsenga Mukanda , Pascal Nawej Tshimwang, Patrick Dmc Katoto, Celestin Banzankulu Lubaba, Abdon Mukalay Wa Mukalay, Benoit Nemery |
| PA1903 | Occupational rhinitis and asthma in bakers: A cross-sectional study in DR Congo | Christopher C. Huntley (Bromsgrove, United Kingdom), Vicky C Moore, Alastair S Robertson, Peter S Burge, Gareth I Walters |
| PA1904 | Stay home; save lives; aid the diagnosis of occupational asthma. | Katelynn Dodd (Morgantown, United States of America), Jacek Mazurek |
| PA1905 | A virtual SIC: A new way of diagnosing occupational asthma in the COVID-19 pandemic | Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Christopher Huntley, Alastair Robertson, Gareth Walters |
| PA1906 | Occupational asthma in Office Workers: A Cross-Sectional Study | Christopher C. Huntley (Bromsgrove, United Kingdom), Vicky C Moore, Alastair S Robertson, Peter S Burge, Gareth I Walters |
| PA1907 | Occupation exposure as a predictor of asthma exacerbation – a multicenter multivariate logistic analysis. | Eva Suarthana (Montréal (Québec), Canada), Olivier Vandenplas, Hille Suojalehto, Jolanta Walusiak-Skorupa, Xavier Muñoz, Joaquin Sastre, Paul K. Henneberger, André Cartier, Catherine Lemiere |
| PA1908 | Diagnostic model for occupational asthma induced by high-molecular-weight agents: A tertiary prevention tool | Aissa Sana (Sousse, Tunisia), Sridi Chaima, Maoua Maher , Haouari Walaa, Kacem Imen , Belhaj Noura , Chouchene Asma , Aloui Asma , Brahem Aicha , Kalboussi Houda , El Maalel Olfa , Chatti Souhail , Mrizek Nejib |
| PA1909 | Association between contact with animals during childhood and occupational asthma. | Nicolas Miguereus (Strasbourg, France), Olivier Vandenplas, Hille Suojalehto, Jolanta Walusiak-Skorupa, Xavier Munoz, Joaquin Sastre, Rolf Merget, Gianna Moscato, Santiago Quirce, Nicolas Meyer, Julien Godet, Frédéric De Blay |
| PA1910 | Relationship between overweight, obesity and the severity of nasal obstruction in occupational rhinitis | Aissa Sana (Sousse, Tunisia), Imene kacem, Jihen Rejeb, Maher Maoua, Olfa El Maalel, Aicha Brahem, Houda Kalboussi, Souhail Chatti, Nejib Mrizek |
| PA1911 | Productivity loss and activity impairment in asthmatic patients | Katelynn Dodd (Morgantown, United States of America), Jacek Mazurek |
Pre-congress content

Session 238
E-poster: Therapy of pulmonary hypertension

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Pulmonary vascular diseases

Method(s): Physiology General respiratory patient care Pulmonary function testing Imaging Respiratory intensive care Palliative care Epidemiology

Chairs: Sheila Ramjug (Altrincham, United Kingdom), Athénaïs Boucly (Le Kremlin Bicêtre, France)

PA1916
Understanding of palliative care among people affected by Pulmonary Hypertension
Iain Armstrong (, United Kingdom), Iain Armstrong, Shaun Clayton, John Sephton, John Smith, Mary Ferguson

PA1917
Selexipag real-world experience in patients over 75 yrs with pulmonary arterial hypertension (PAH)
Sean Gaine (Dublin, Ireland), Pilar Escribano, Patricia Biedermann, Audrey Muller, Hong Sun, Stefan Söderberg, Tobias J Lange

PA1918
Switching from PDE5i to riociguat in patients with PAH: A responder analysis from REPLACE

PA1919
ELEVATE 2: A multicenter study of rodatristat ethyl in patients with WHO Group 1 pulmonary arterial hypertension (PAH)
Howard M. Lazarus (Portland, United States of America), Jill Denning, Watiri Kamau-Kelley, Stephen Wring, Michelle Palacios, Marc Humbert

PA1920
Acute hemodynamic effect of acetazolamide in patients with pulmonary hypertension whilst breathing normoxic and hypoxic air: a randomized cross-over trial
Mona Lichtblau (Zürich, Switzerland), Charlotte Berlier, Stéphane Saxer, Arcangelo F Carta, Laura Mayer, Alexandra Groth, Patrick Bader, Simon R Schneider, Michael Furian, Esther I Schwarz, Eric R Swenson, Konrad E Bloch, Silvia Ulrich

PA1921
Predictors of response to phosphodiesterase-5 inhibitors in pulmonary arterial hypertension
AGUSTIN ROBERTO GARCIA (BARCELONA, Spain), Isabel Blanco, Roger Borras, Manuel Lopez-Meseguer, Juan Antonio Domingo-Morera, Clara Martin-Ontyuelo, Olga Tura, Isabel Otero-Gonzalez, Pilar Escribano-Subías, Joan Albert Barberà

PA1922
Effect of short-term oxygen therapy on exercise performance in patients with cyanotic congenital heart disease
Stéphane Saxer (Zürich, Switzerland), Luigi-Riccardo Calendo, Mona Lichtblau, Julian Müller, Arcangelo Carta, Fiorenza Gautschi, Charlotte Berlier, Esther Schwarz, Konrad Bloch, Matthias Greutmann, Silvia Ulrich

PA1923
Outcomes of patients with decreased arterial oxyhaemoglobin saturation on pulmonary arterial hypertension drugs
Simon Valentín (Nancy, France), Arnaud Maurac, Olivier Sitbon, Antoine Bournier, Emmanuel Gomez, Anne Guillaumot, Laura Textoris, Renaud Fay, Laurent Savale, Xavier Jaïs, Davis Montani, Francois Picard, Jean-François Mornex, Grégoire Prevot, Francois Chabot, Marc Humbert, Ari Chaouat

PA1924
Critical care outcomes in patients with pre-existing pulmonary hypertension: insights from the ASPIRE registry
Robin Condiffe (Sheffield (South Yorkshire), United Kingdom), Kris Bauchmann, Jennifer Southern, Catherine Billings, Athanasios Charalampopoulos, Charlie Elliot, Abdul Hameed, David Kiely, Ian Sabroe, Roger Thompson, Ajay Raithatha, Gary Mills

PA1925
Prognostic value of renal doppler in acute decompensated precapillary pulmonary hypertension
Jérémie Pichon (Paris, France), Charles Fauvel, Anne Roche, Athénaïs Boucly, Xavier Jaïs, Mitja Jevnikar, Nathan Ebstein, Olivier Sitbon, David Montani, Marc Humbert, Laurent Savale

PA1926
Gas exchange impairment in COPD with severe pulmonary hypertension
Lucilla Piccari (Barcelona, Spain), Isabel Blanco, Yolanda Torralba, Ebymar Arismendi, Concepción Gistau, Ana Ramirez, Felip Burgos, Jorge Moisés, Joan Albert Barberà
Effect of phosphodiesterase 5 inhibitor in patients with pulmonary hypertension associated with chronic obstructive pulmonary disease
Gordana Pavliša (Zagreb, Croatia), Lidija Ljubicic, Fedja Dzubur, Mateja Jankovic Makek, Latinka Basara, Miroslav Samaržija

BREEZE: Open-label, Clinical Study to Evaluate the Safety and Tolerability of a Treprostinil Dry Powder Inhaler in Patients with Pulmonary Arterial Hypertension Currently Using Tyvaso
Leslie Spikes (LEAWOOD, United States of America), Shelley Shapiro, Ricardo Restrepo-Jaramillo, Joanna Joly, Trushil Shah, Jason Scoogin, Lisa Edwards, Peter Smith

A multicompartmemt lung model predicts pulmonary pharmacokinetics of inhaled liposomal treprostinil (L606) in healthy volunteer
Pei Kan (Taipei, Taiwan), Ko-Jie Chen

Pre-congress content  Session 239  13:15 - 14:15
E-poster: Management of chronic cough and obstructive diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Respiratory critical care

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

Chairs: Paul Marsden (Manchester (Greater Manchester), United Kingdom), Lowie G.W. Vanfleteren (Gothenburg, Sweden)

Bronchoscopy and laryngoscopy findings in refractory chronic cough (RCC)
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, Jacky Smith, Jemma Haines, Sarah Hennessey, Siobhan Ludlow, Paul Marsden

Prevalence, incidence, and characteristics of chronic cough among adults from the canadian longitudinal study on ageing (CLSA)
Imran Satia (Hamilton, Canada), Alexander Mayhew, Sohel Nazmul, Om Kurmi, Kieran Killian, Paul O’Byrne, Parminder Raina

Automated detection of cough events with a Smartphone
Konstantinos Tatsis (Ioannina, Greece), Niels Agerskov, Daniela Savi, Agni Sioutkou, Sofia Peristeri, Evgenia Salla, Christos Kyriakopoulos, Athena Gogali, Konstantinos Kostikas

Bronchial asthma: what is different in patients with and without chronic cough?
Dina Visca (Tradate, Italy), Patrizia Pignatti, Martina Zappa, Rosella Centis, Paola Bottini, Dardan Drugzani, Elisabetta Zampogna, Laura Saderi, Giovanni Sotgiu, Giovanni Battista Migliori, Antonio Spanevello

The use of objective 24 hour cough monitoring to measure clinical improvement in cystic fibrosis.
Kayleigh Brindle ( Cottingham, United Kingdom), Rachel Thompson, Caroline Wright, Tanya Cavany, Debbie Ingram, Melanie Robinson, Alyn Morice
**PA1941**
**Productive Cough, a Forgotten Phenotype of Refractory Chronic Cough**
Jenny King (Manchester (Greater Manchester), United Kingdom), James Wingfield Digby, Sarah Hennessey, Paul Marsden, Jaclyn Smith

**PA1942**
**Evaluation of long-term respiratory problems in children with esophageal atresia**
Zeynep Reyhan Onay (Istanbul, Turkey), Gulsah Pirim, Sinem Can Oksay, Deniz Mavi, Yetkin Ayhan, Gulay Bilgin, Sabahat Cam, Cigdem Ulukaya Durakbasra, Saniye Girit

**PA1943**
**A novel approach to the analysis of ambulatory 24hr cough monitoring data**
Rachel Thompson (Hull, United Kingdom), Kayleigh Brindle, Tanya Cavany, Melanie Robinson, Debbie Ingram, Caroline E Wright, Alyn H Morice

**PA1944**
**Modelling Rhinovirus-16 (RV16) Infection using Human Precision Cut Lung Slices (PCLS)**
Rebecca Stinson (Hull, United Kingdom), Alyn Morice, Laura Sadofsky

**PA1945**
**Measuring peripheral lung dimensions with the deposition of aerosol nanoparticles**
Madeleine Petersson Sjögren (Lund, Sweden), Laura Aaltonten, Jonas Jakobsson, Jenny Rissler, Per Wollmer, Jakob Lönndahl

**PA1946**
**Longitudinal quality of life following acute NIV for ECOPD.**
Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Tom Hartley, John Steer, Mark Elliott, Milind Sovani, Helen Curtis, Elizabeth Fuller, Patrick Murphy, Dinesh Shrikrishna, Keir Lewis, Neil Ward, Chris Turnbull, Nicholas Hart, Stephen Bourke

**PA1947**
**CARDIOVASCULAR RISK (CVR) AND EFFECTS ON THE QUALITY OF LIFE AFTER A PHYSICAL REHABILITATION PROGRAM ON COPD PATIENTS BASED ON THEIR PHENOTYPE: EXACERBATOR (E) OR NON-EXACERBATOR (NE)**
Esperanza Salcedo Lobera (Málaga, Spain), Ana Muñoz Montiel, Pedro Ruiz-Esteban, Jairo Luque Del Pino, Miguel Ángel Sánchez Chaparro, Adolfo Doménech Del Río

**PA1948**
**Title: The effect of COPD pay-for-performance program on healthcare resource utilization in Taiwan**
Ching-Hsiung Lin (Changhua city, Taiwan), Ching-Hsiung Lin, Hao-Chien Wang, Meng-Chih Lin, Chong-Jen Yu

**PA1949**
**Bone turnover markers, bone mineral density and body composition in Tunisian patients with chronic obstructive pulmonary disease**
Amir Taboubi (Béja, Tunisia), Mieriem Mjid, Sameh Hadji Taieb, Abir Hedhli, Yacine Ouahchi, Sana Cheikh Rouhou, Wafa Hamdi, Kaouthar Maatallah, Samira Merai, Moncef Fekih, Sonia Toujani, Besma Dhahri

**PA1950**
**Receptor activator of nuclear factor-kB ligand (RANKL) and bone mineral density in Tunisian patients with chronic obstructive pulmonary disease (COPD)**
Amir Taboubi (Béja, Tunisia), Mieriem Mjid, Lilia Laadhar, Imene Ayadi, Abir Hedhli, Yacine Ouahchi, H Aoudani, Sana Cheikh Rouhou, Samira Merai, Maryam Sellami, Sonia Toujani, Besma Dhahri

**PA1951**
**Airway length per generation in the human healthy lung and the impact of COPD**

**PA1952**
**Insulin-Like Growth Factors and IGF-Binding Proteins levels in serum from smokers and patients with different grades of COPD, COPD and lung cancer and exacerbated COPD**
Iciar Paula Lopez (Logroño (La Rioja), Spain), Elvira Alfaro-Arnedo, Marta Canalejo, Alfredo Urtubia, Alejandro Roncero, Carlos Ruiz-Martinez, Andreas Hoeflisch, Christine Höflisch, Carolina Gotera, German Peces Barba, Jose Pichich

**PA1953**
**Definition, characteristics and quality of life of patients with chronic cough from the Isala chronic cough clinic in the Netherlands**
Jan Willem K. van den Berg (Zwolle, Netherlands), C A Baxter, M Edens, K W Patberg, Hester van der Velden, A Weijerse, S Salomonsson

**PA1954**
**LSC - 2021 - The role of the systemic inflammation in bronchiectasis exacerbation frequency**
Kateryna Gashynova (Dnipro, Ukraine), Suska Kseniia, Kateryna Gashynova (gashynova@gmail.com / SI"DMA"), Dnipro, Suska, Valeriu Dmytrychenko (leradmitrichenko@ua.fm / SI"DMA"), Dnipro

**Pre-congress content Session 240 13:15 - 14:15**

**E-poster: Acute paediatric respiratory infections**
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
### Disease(s):
- Respiratory critical care
- Airway diseases

### Method(s):
- Public health
- Cell and molecular biology
- General respiratory patient care
- Respiratory intensive care
- Epidemiology
- Surgery
- Imaging
- Pulmonary function testing

### Tag(s):
- COVID

### Chairs:
- Refiloe Masekela (Pretoria, South Africa)
- Ross Langley (Glasgow, United Kingdom)

### EPOSTERS

<table>
<thead>
<tr>
<th>Session PA1955</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community-acquired pneumonia in COVID-19 positive children: monitoring the clinical course</td>
</tr>
<tr>
<td>Zoia Nesterenko (Lugansk, Ukraine), Natalya Prokopeva</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1956</th>
</tr>
</thead>
<tbody>
<tr>
<td>The course of pulmonary TB in children with COVID-19</td>
</tr>
<tr>
<td>Irina Petrakova (Moscow, Russian Federation), Marina Gubkina, Natalya Yukhimenko, Yuliya Khokhlova, Svetlana Sterlikova</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1957</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparative clinical analysis of COVID-19 pneumonia and bacterial pneumonia</td>
</tr>
<tr>
<td>Natalya Konurkina (Красноярск, Russian Federation), Natalya Ilenkova</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1958</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulmonary outcome post COVID-19 in children: the role of the lung ultrasound</td>
</tr>
<tr>
<td>Ioana Mihaela Ciuc (Timisoara (Timis), Romania), Mihaela Dediu, Flavian Nicolae Mircov, Maria Budnic, Diana Ragobete, Ramona Chelcea, Diana Popin, Milhea Baloi, Mirabela Maria Lukic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1959</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronchiolitis prevalence rates in Congenital Diaphragmatic Hernia: a systematic review and meta-analysis</td>
</tr>
<tr>
<td>Leonie Lewis (Liverpool, United Kingdom), Paul Losty, Ian Sinha</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1960</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular genetic characterization of Klebsiella pneumoniea isolates from a lower respiratory tract in children in intensive care unit in Moscow</td>
</tr>
<tr>
<td>Irina Novikova (Moscow, Russian Federation), Natalia Alyabieva, Zulfirya Sadeeva, Anna Lazareva</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1961</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical and radiological features can help predict Mycoplasma pneumonieae lower respiratory tract infection in children and infants</td>
</tr>
<tr>
<td>Špela Dolenc (Lj. - Šentvid, Slovenia), Darja Kešč, Malena Aledoce, Uroš Krivec, Ana Kotnik Pirš, Dušanka Lepej, Marina Praprotnik, Saša Šetina Šmid, Aleksandra Zver, Jasna Rodman Berlot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1962</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlamydia pneumonieae and Mycoplasma pneumonieae infection in children respiratory diseases</td>
</tr>
<tr>
<td>Svetlana Sciuca (Chisinau, Republic of Moldova), Ludmila Balanetchi, Consuelo Adam, Rodica Selevestru, Ianos Adam, Diana Rotaru-Cojocari, Liuba Neamtu</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1963</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevalence of hyponatremia (HN) in children with community acquired pneumonia (CAP) and its relation to disease severity, outcomes</td>
</tr>
<tr>
<td>Yasmin Saiëd Aly (Cairo, Egypt), Mona Mohsen, Mohammed Khalil, Doaa Salah</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Role of clinical criteriaa and oxygen saturation (SpO2) monitoring in the diagnosis of pneumonia in children aged 2 to 59 months</td>
</tr>
<tr>
<td>Rashmi Ranjan Das (Bhubaneswar (Odisha), India), Amit Kumar Satapathy, Samarendra Mahapatro, Aparna Mukherjee, Jagdish Prasad Goyal, Javeed Iqbal Bhat, Vinod H Ratageri, Bhadresh Vyas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management of pneumonia in emergency department: utility of chest radiography reviewed by a pediatric pneumonologist and a pediatric radiologist.</td>
</tr>
<tr>
<td>Michele Ghezzi (Bergamo, Italy), Martina Pascuzzi, Luisa Lonoce, Andrea Farolfi, Salvatore Zirpoli, Marco Morelli, Gian Vincenzo Zuccotti</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1967</th>
</tr>
</thead>
<tbody>
<tr>
<td>Necrotizing pneumonia in children: Report of 27 cases in a Spanish hospital over 17 years</td>
</tr>
<tr>
<td>Silvia Carbonell-Sahuquillo (valencia, Spain), Andrés Piolatti-Luna, José Rafael Bretón-Martinez, Silvia Castillo-Corulló</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session PA1968</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evolution of cytokines/chemokines in cases with severe nosocomial pneumonia and distinct etiologies in mechanical ventilated patients.</td>
</tr>
<tr>
<td>Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Dmytro Dmytriiev, Oleksandr Nazarchuk, Yulia Babina, Kateryna Dmytriieva</td>
</tr>
</tbody>
</table>

### Pre-congress content

**Session 241**

**E-poster: Rare thoracic surgical disease and the chest wall**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Chairs:** Marco Nardini (Uxbridge, United Kingdom), Cagatay Tezel (Istanbul, Turkey)
Elastofibroma: A rare neoplasm of the chest wall
Kalliopi Athanassiadi (Athens, Greece), Evangelia Liverakou, Ioannis Alevizakis, Evangelia Chatzimichali, Aikaterini Katsanidri, Ioannis Prohodcov, Giorgos Liadakis

Complex treatment of widespread destructive pulmonary tuberculosis using innovative technology of the main bronchial stump treatment during pneumonectomy
Genrik Asyanyan (Moscow, Russian Federation), Mamed Bagirov, Svetlana Sadovnikova, Dmitry Prohodcov, Nina Nikitina, Raml Penagi, George Chitorelidze

Pyothorax in children: surgical management
mahdi Abdennadher (Ariana, Tunisia), ghazouani atef, Abdennadher Mahdi, Sahnoun Imen, Zribi Hazem, Zairi Sarra, Bouacida Imen, Ouergiéh Sonia, Mezni Faouzi, Marghli Adel

Thoracic synovial sarcoma: management of a rare tumor and prognosis, a report of 8 cases
Imen Bouassida (Ariana, Tunisia), Asma Saad, Sarra Zairi, Hazem Zribi, Bechir Ben Radha, Aida Ayedi, Sonia Ouerghi, Adel Marghli

Primary adenoid cystic carcinoma of the trachea and bronchus: a surgical series
Imen Bouassida (Ariana, Tunisia), Kaouther Ben Amara, Mahdi Abdennadher, Hazem Zribi, Ameni Ben Mansour, Aida Ayedi, Sonia Ouerghi, Adel Marghli

Clinical efficacy of Video-assisted thoracoscopic surgical decortication (VATSD) in various diseases; an 85 cases study
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Panagiotis Demertzis, Nikolaos Anastasiou

Non intubated surgery in empyema thoracis

Management of post-traumatic empyema
mahdi Abdennadher (Ariana, Tunisia), ghazouani atef, Abdennadher Mehdi, Zairi Sarra, Bouacida Imen, Sahnoun Imen, Touiabia Maha, Ouergiéh Sonia, Zribi Hazem, Marghli Adel

Medical pleurodesis with povidone iodine for malignant pleural effusion in low income country
Moud Gourti (Agadir, Morocco), Soufiane Abdouh, Mohsine Makloul, Fahd Ouchen, Elmehdi Maiti

Surgical management of thoracic empyema - 5 years review
Maria João Freitas Ferreira Araújo (Guimarães, Portugal), Susana Lareiro, José Miranda, Miguel Guerra

Do air bubbles have a message?
Banu Yoldas (Izmir, Turkey), Serkan Yazgan, Ezgi Celik, Soner Gursoy

Primary chest wall plasmocytoma: a series of 7 cases
Imen Bouassida (Ariana, Tunisia), WIFEK SAIDANI, Rime Essid, Hazem Zribi, Mahdi Abdennadher, Bechir Ben Rathia, Yoldez Houcine, Sonia Ouerghi, Adel Marghli

Oligometastatic rib disease resection for cancer patients
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Panagiotis Demertzis, Nikolaos Anastasiou

Benign bone tumors of the chest wall: a report of 17 cases
mahdi Abdennadher (Ariana, Tunisia), Kaouther Ben Amara, Hazem Zribi, Imen Bouacida, Sarra Zairi, Aida Ayadi-Kaddour, Sonia Ouerghi, Adel Marghli

Management of chest wall chondrosarcoma: report of 15 cases
Sarra Zairi (Tunis, Tunisia), mariem hadj dahmane, Hazem Zribi, Mahdi Abdennadher, Ayda Ayedi, Mouna Attia, Sonia Ouerghi, Faouzi Mezni, Taher Mestiri, Adel Marghli

Multidisciplinary approach in the treatment of chest wall sarcomas
Imen Bouassida (Ariana, Tunisia), WIFEK SAIDANI, Amina Abdelkibir, Hazem Zribi, Bechir Ben Rathia, Sarra Zairi, Taher Mestiri, Aida Ayadi, Adel Marghli

Lung sarcoidosis in HIV infection: myth or reality?
Tamila Abu Arqoub (Moscow, Russian Federation), Mikhail Synitsyn, Boris Barskiy, Dmitriy Plotkin, Mikhail Reshetnikov, Armine Galstyan

Pre-congress content Session 242 13:15 - 14:15
E-poster: Pulmonary rehabilitation in clinical conditions
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases  Thoracic oncology  Interstitial lung diseases  Respiratory critical care  Sleep and breathing disorders

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

**Tag(s):** COVID, Digital health

**Chairs:** Leona Dowman (Melbourne, Australia), Claire Andrejak (Amiens, France)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1987</td>
<td>Acute exacerbation of COPD- What symptoms bothers patients the most: A survey study</td>
<td>Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh</td>
</tr>
<tr>
<td>PA1988</td>
<td>Maintenance strategy preferences following pulmonary rehabilitation (PR) for patients with chronic respiratory disease (CRD): A Survey</td>
<td>KHALED ALQAHTANI (Leicester, United Kingdom), Linzy Houchen-Wolloff, Sally Singh</td>
</tr>
<tr>
<td>PA1989</td>
<td>Responsiveness and MID estimates for isokinetic quadriceps endurance in COPD patients following pulmonary rehabilitation</td>
<td>Anouk Stoffels (Nijmegen (GE), Netherlands), Roy Meys, Frits Franssen, Hieronymus Van Hees, Bram Van Den Borst, Alex Van 'T Hul, Peter Klijn, Jana De Brandt, Chris Burtin, Martijn Spruit</td>
</tr>
<tr>
<td>PA1990</td>
<td>Frequency of depressive syndrome in patients with bronchial asthma and chronic obstructive pulmonary disease</td>
<td>Shahboskhon Akhmedov (Tashkent, Uzbekistan)</td>
</tr>
<tr>
<td>PA1991</td>
<td>Outcomes of pulmonary rehabilitation after lung resection in patients with lung cancer</td>
<td>Nimet Aksel (Izmir, Turkey), Hulya Sahin, Ilknur Naz Gursan, Filiz Guldaival, Mine Gayaf, Serkan Yazgan, Kenan Can Ceylan</td>
</tr>
<tr>
<td>PA1993</td>
<td>Late Breaking Abstract - Uneven improvement of functional and ventilatory status of Covid-19 patients after discharge from hospital</td>
<td>Richard Haouchan (Beirut, Lebanon), Antoine Kik, Elie Ghayad, Hind Elid, Marc Raad, Albert Riachy, Elio Mekhail, Fadi Haddad, Georges Khayat, Ghassan Slelaty, Moussa Riachy</td>
</tr>
<tr>
<td>PA1994</td>
<td>Assessment of the currently available reference equations for the 6-minute walk in breast cancer survivors living at 2630 meters altitude.</td>
<td>Diana Carolina Zona Rubio (Bogota, Colombia), Sol Angie Romero, Teddy Angarita-Sierra, Ana Isabel García-Muñoz, Steve Fernando Pedraza, Laura Yañez, María Alejandra Rubio, Oscar Rubiano, José Gabriel León, Carlos Mejía-Arbelaez, Olga Lucia Sarmiento</td>
</tr>
<tr>
<td>PA1995</td>
<td>Adaptive capacities and complexity of heart rate variability in patients with Chronic Obstructive Pulmonary Disease throughout pulmonary rehabilitation</td>
<td>Louis Hognon (Montpellier, France), Nelly Heraud, Alain Varray, Kjerstin Torre</td>
</tr>
<tr>
<td>PA1997</td>
<td>Screening for a strategic shift to pulmonary telerehabilitation for non-COVID-19 patients.</td>
<td>Catarina Duarte Santos (Almada, Portugal), Fátima Rodrigues, Cátia Caneiras, Cristina Bárbara</td>
</tr>
<tr>
<td>PA1998</td>
<td>Effectiveness of telephone monitored home exercise for patients with COPD</td>
<td>Lisa Pritchard (London, United Kingdom), Charlene Goh, Lynn Mcdonnell, Lauren Hogg, Laura Moth</td>
</tr>
<tr>
<td>PA1999</td>
<td>Respiratory function in chronic stroke patients: an observational study.</td>
<td>Esther Prados Román (Granada, Spain), Irene Cabrera Martos, Mónica Zapata Soria, Araceli Ortiz Rubio, Andrés Calvache Mateo, Marie Carmen Valenza</td>
</tr>
</tbody>
</table>
### Pre-congress content

#### Session 243  
**13:15 - 14:15**

**E-poster: Bronchiectasis and pleural infection**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster PDF format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** Endoscopy and interventional pulmonology  General respiratory patient care  Public health  Epidemiology

**Chairs:** Melissa McDonnell (Oranmore (Co Galway), Ireland), Josje Altenburg (Amsterdam (NH), Netherlands)

<table>
<thead>
<tr>
<th><strong>Poster</strong></th>
<th><strong>Title</strong></th>
<th><strong>Authors</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2005</td>
<td>The journey to bronchiectasis diagnosis and care: an EMBARC/ELF patient survey</td>
<td>Ariette Spinou (London, United Kingdom), Marta Almagro, Bridget Harris, Jeanette Boyd, Tove Berg, Beatriz Herrero, Annette Posthumous, Stefano Aliberti, Barbara Crossley, Thomas Ruddy, James Chalmers, Michal Shteinberg</td>
</tr>
<tr>
<td>PA2006</td>
<td>Translation and validation of the Quality-of-Life Bronchiectasis questionnaire in Swedish, and correlation with clinical outcomes.</td>
<td>Pia Ghosh (Stockholm, Sweden), Ingrid Gerhardson, Roelinde Middelveld, Alexandra Ek, Amalia Panagiotou, Sven-Erik Dahlén, Barbro Dahlén, Apostolos Bossios</td>
</tr>
<tr>
<td>PA2007</td>
<td>Nebulized saline treatment in patients with concomitant asthma and bronchiectasis</td>
<td>ELENA AVALOS PEREZ-URRIA (Madrid, Spain), Jennifer Mayordomo, Sofia Gonzalez, Cristina Carrasco, Johanna Vásquez, Fernando Gómez-Olano, Iván Ariza, Gabriel Rodriguez-Romo, Javier Ortiz, José Antonio Serra</td>
</tr>
<tr>
<td>PA2008</td>
<td>Vestibular function in adult patients with primary ciliary dyskinesia</td>
<td>Niels Winthereik (Copenhagen, Denmark), Mikkel Christian Alanin, Kim Gjerum Nielsen, Christian Von Buchwald, Sune Land Bloch</td>
</tr>
<tr>
<td>PA2009</td>
<td>Bronchiectasis severity assessment tools to predict clinical outcomes in the Indian Bronchiectasis Registry</td>
<td>Raja Dhar (Kolkata (West Bengal), India), Sheetu Singh, Deepak Talwar, Murali Mohan, Surya Kant Tripathi, Rajesh Swarnakar, Sonali Trivedi, Srinivas Rajagopal, George D'Souza, Arjun Padmanabhan, Archan Baburao, Megan Crichton, James D. Chalmers, Sneha Limaye, Sundeep Salvi</td>
</tr>
<tr>
<td>PA2010</td>
<td>FACED and BSI concordance in predicting bronchiectatis severity</td>
<td>Asma Jarrar (Tunis, Tunisia), Haifa Zaibi, Emma Ben Jemia, Hend Ouertani, Jihen Ben Amar, Hichem Aouina</td>
</tr>
<tr>
<td>PA2011</td>
<td>Contribution of BSI and FACED scores in prediction of bronchiectasis mortality</td>
<td>Asma Jarrar (Tunis, Tunisia), Haifa Zaibi, Emma Ben Jemia, Ameni Naaroura, Jihen Ben Amar, Hichem Aouina</td>
</tr>
<tr>
<td>PA2012</td>
<td>Bronchiectasis exacerbations risk prediction using severity scales BSI and FACED</td>
<td>Asma Jarrar (Tunis, Tunisia), Haifa Zaibi, Emma Ben Jemia, Hend Ouertani, Jihen Ben Amar, Hichem Aouina</td>
</tr>
<tr>
<td>PA2013</td>
<td>Elevated blood eosinophils in bronchiectasis: A distinct phenotype?</td>
<td>Nouha Boubaker (Nabeul, Tunisia), Sabrine Louhaichi, Ikbel Khalfallah, Mariem Ferchichi, Safa Belkhir, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui</td>
</tr>
</tbody>
</table>
PA2014  Analysis of the Effect of pneumococcal vaccination in patients with COPD in combination with bronchiectasis
Elena Blinova (Chelyabinsk (Chelyabinsk Oblast), Russian Federation), Galina Ignatova

PA2015  Exacerbations in non-cystic fibrosis bronchiectasis (NCFB): is there a difference between self-reported events and those defined by the criteria in the literature?
Monica Corso Pereira (Campinas (SP), Brazil), Jessica de Campos Medeiros, Adria Cristina Da Silva

PA2016  Analysis of the daily symptom profile of patients with non-cystic fibrosis bronchiectasis (NCFB) using a symptom diary.
Monica Corso Pereira (Campinas (SP), Brazil), Jessica de Campos Medeiros, Adria Cristina Da Silva

PA2017  Assessment of health-related quality of life in patients with bronchiectasis colonized by Pseudomonas aeruginosa
Leticia Bueno Freire (Barcelona, Spain), Victoria Alcaraz Serrano, Laia Fernández Barat, Giulia Scioscia, Patricia Oscanoa, Nil Vázquez, Alexandre López Gavin, Albert Gabarrús, Rosanel Amaro, Adrián Ceccato, Rubén López Aladid, Antoni Torres

PA2018  Risk stratifying pleural infection using RAPID score in an Asian population
Charles Wong (Hong Kong, Hong Kong), Loletta Kit-Ying So, Loretta Yin-Chun Yam

PA2019  Identification of microbiome etiology associated with drug resistance in pleural empyema
Jinhua Liang (nanning, China), Zhaoyan Chen, Hans Cheng, Zhao Bai, Qingjun Wei, Jinlong Li, Wenshu Zhang, Zhijian Yu, Dongjing Liu, Lei Liu, Zhenqiang Zhang, Wang Ke, Liang Yang

PA2020  Parapneumonic pleural effusion prognosis – retrospective study in an Internal Medicine Service
Chantal Cortesão (Aveiro, Portugal), Patricia Carvalho, Pedro Silva Santos, Joana Pacheco, Armando Carvalho

PA2021  Clinicoradiological profile and treatment outcome of empyema thoracis patients
ARITRA GANGULY (KOLKATA, India), Somnath Bhattacharya, Atin Dey

PA2022  Rate and impact of the infection risk related to reusable flexible bronchoscopes: Systematic literature review and meta-analysis
Helena Travis (Ballerup, Denmark), Rasmus Russell

PA2023  Pleural empyema in hospitalization and mortality risk: application of RAPID score.
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Sergio Suarez Escudero, Beatriz Recio Moreno, Christian Reynaldo Castro Riera, Zichen Ji, Javier De Miguel Diez, Luis Puente Maestu, Walther Ivan Giron Matute

PA2024  A experience of using intrapleural fibronolytics in a large district general hospital
Muhammad Bilal Khan Niazi (Sheffield (South Yorkshire), United Kingdom), Olutobi Ojuawo, Ansar Ali, Usman Maqsood, Adeel Sahal

Pre-congress content  Session 244  13:15 - 14:15
E-poster: Paediatric asthma and bronchopulmonary dysplasia

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Methods: Cell and molecular biology  Epidemiology  Public health  General respiratory patient care  Respiratory intensive care  Pulmonary function testing  Physiology  Imaging

Chairs: Liesbeth Duijts (Rotterdam, Netherlands), David Lo (Leicester, United Kingdom)

PA2025  Changes in epidemiology of bronchiolitis during last two decades in Finland: a register-based study
Paula Heikkilä (Orivesi, Finland), Tyyti Vihikangas, Sauli Palmu

PA2026  Temporal change in pediatric asthma exacerbation rates - a nationwide Swedish asthma cohort (HERA)
Erik Melén (Stockholm, Sweden), Bright Nwaru, Fredrik Wiklund, Magnus Ekström, Sofie de Fine Licht, Gunilla Telg, Christer Janson

PA2027  Does lung function change in the months after an asthma exacerbation in children?
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Joanne Martin, Marielle Pijnenburg, Graham Roberts, Katharine Pike, Helen Petsky, Anne Chang, Stanley Szefler, Peter Gergen, Francoise Vermeulen, Robin Vael

PA2028  Assessing the contribution of combined influence of genetic and external factors (smoking) on the development of Asthma
Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinenchenko
Appendicular lean mass - a driver of low lung function in children? Data from the population-based LEAD (Lung, Heart, sociAl, boDy) cohort
Alina Ofenheimer (Wien, Austria), Robab Breyer-Kohansal, Sylvia Hartl, Otto C. Burghuber, Florian Krach, Fris Franssen, Emiel Wouters, Marie-Kathrin Breyer

Antonis Michanikou (Nicosia, Cyprus), Panayiotis Kouis, Pinelopi Anagnostopoulou, Emmanouil Galanakis, Eleni Michaelidou, Helen Dimitriou, Andreas M. Matthaiou, Paraskevi Kinni, Souzana Achilleos, Harris Zacharatos, Stefania I. Papatheodorou, Petros Koutrakis, Georgios K. Nikolopoulos, Panayiotis K. Yiallouros

Prospective assessment of pediatric asthma morbidity in Cyprus and Greece during COVID-19 lockdown measures in Spring 2020

The way to standardized reporting of obstructive airway disease in children – a national Delphi process
Carmen Cornelia Maria de Jong (Bern, Switzerland), Cristina Ardura-Garcia, Eva Sophie Lunde Pedersen, Dominik Mueller-Suter, Anja Jochmann, Florian Singer, Carmen Annemarie Casaula, Nicolas Regamey, Alexander Moeller, Myrofora Goutaki, Claudia Kuehni

Assessing cough in epidemiological studies: does it matter which question is used?
Maria Christina Mallet (Bern, Switzerland), Rebeca Mozun, Cristina Ardura-Garcia, Philipp Latzin, Alexander Moeller, Claudia E Kuehni

Postnatal diuretics, growth and home oxygen requirement in preterm infants
Emma Williams (London, United Kingdom), Emma Williams, Theodore Dassios, Shannon Gunawardana, Nicholas Donaldson, Anne Greenough

Use of postnatal corticosteroids and weight gain in extremely prematurely born infants
Emma Williams (London, United Kingdom), Emma Williams, Theodore Dassios, Mikhaela Mann, Anne Greenough

Respiratory morbidity and lung function in moderate and late preterm infants during the first six years of life.
Laura Camats Marsol (ALMACELLES, Spain), Ines De Mir Messa, Olaia Sardón Prado, Paula Corcuera Elosegui, Ignacio Iglesias Serrano, Sandra Rovira-Amigo, Javier Korta Murua, Antonio Moreno-Galdó

Impact of Bronchopulmonary Dysplasia on Functional and Structural Change in Lung of School-aged Children
Ji Ye Jung (Seoul, Republic of Korea), Jeong Eun Shin, Mi-Jung Lee, Soo Yeon Kim, Jungho Han, Kyung Won Kim

Teaching Air Pollution to Children - Clinical research and education colliding
Abigail Whitehouse (London, United Kingdom), Jonathan Grigg

Pre-congress content

Session 245
13:15 - 14:15
E-poster: In vitro modelling of lung disease: reach out to the next dimension
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Interstitial lung diseases, Respiratory critical care, Pulmonary vascular diseases
Method(s): Cell and molecular biology, Imaging, Transplantation, Physiology

Chairs: Darcy Wagner (Lund, Sweden), Anne M. van der Does (Leiden, Netherlands)

Establishment of a human in vitro model for airway epithelial repair and regeneration
Ashesh Chakraborty (Munich, Germany), Ashesh Chakraborty, Michal Mastalerz, Rudolf Hatz, Jürgen Behr, Michael Lindner, Anne Hilgendorff, Claudia Staab-Weijnitz
LSC - 2021 - Establishment of a human in vitro model for epithelial repair and regeneration
Ashesh Chakraborty (Munich, Germany), Chakraborty Ashesh, Michal Mastalerz (michal.mastalerz@helmholtz-muenchen.de / Comprehensive Pneumology Center, University Hospital of the Ludwigs-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany, Munich), Rudolf Hatz (Rudolf.Hatz@med.uni-muenchen.de / Thoraxchirurgisches Zentrum, Klinik für Allgemeine-, Viszeral-, Transplantations-, Gefäß- und Thoraxchirurgie, Klinikum Großhadern, Ludwig-Maximilians-Universität (LMU), Munich), Jürgen Behr (Juergen.Behr@med.uni-muenchen.de / Medizinische Klinik und Poliklinik V, Klinikum der Ludwig-Maximilians-Universität, Munich, Germany, Member of the German Center of Lung Research (DZL) and Asklepios Fachkliniken München-Gauting, Munich, Germany, Munich), Michael Lindner (m.lindner@salck.at / Comprehensive Pneumology Center, University Hospital of the Ludwigs-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany, and Asklepios Fachkliniken München-Gauting, Munich, Germany, Munich), Anne Hilgendorn (A.Hilgendorf@med.uni-muenchen.de / Comprehensive Pneumology Center, University Hospital of the Ludwigs-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany, Munich), Claudia Staab-Wejinitz (staab-wejinitz@helmholtz-muenchen.de / Comprehensive Pneumology Center, University Hospital of the Ludwigs-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany, Munich).

PA2040

LSC - 2021 - Modelling immune cell migration in the lung using a microfluidic hydrogel barrier
Rosa K. Kortekaas (Groningen, GR), Janette K. Burgess, Megan Webster, Reinoud Gosens

PA2041

LSC - 2021 - Modelling the molecular effects of cannabis extracts on human airway epithelial tissue
Neil Skjodt (Lethbridge, AB, Canada), Bo Wang, Dongping Li, Anna Fiselier, Rocio Rodriguez-Juarez, Olga Kovalchuk, Igor Kovalchuk

PA2042

LSC - 2021 - A 3D tissue-engineered airway model for the assessment of epithelial responses to novel nanotherapeutics
Luis Soriano (Dublin, Ireland), Rachel Gaul, Fergal J. O’Brien, Cian O’Leary, Sally-Ann Cryan

PA2043

LSC - 2021 - Effect of mTOR inhibition in a 3D in vitro model of alveolar epithelium and epithelial regeneration
Manuela Platé (London, United Kingdom), Demetra-Ellie Phylactopoulos (ephylact@yahoo.com / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London), Sarah E Clarke (sarah.e.clarke@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Robert E Hynd (rob.hynds@ucl.ac.uk / CRUK Lung Cancer Centre of Excellence, UCL Cancer Institute, University College London, London), Sam J Janes (s.janes@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Rachel C Chambers (r.chambers@ucl.ac.uk / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London).

PA2044

LSC - 2021 - Pluripotent stem cell derived airway cholinergic neurons for disease modelling of neuroplasticity in asthma
Pien A. Goldsteen (Groningen, Netherlands), Patty Mulder (p.p.m.f.a.mulder@rug.nl / University of Groningen, Groningen), Loes Kistemaker (l.e.m.kistemaker@rug.nl / University of Groningen, Groningen), Joana Soeiro (joana.soeteiro97@gmail.com / University of Groningen, Groningen), Klaus Mathwig (k.h.mathwig@rug.nl / University of Groningen, Groningen), Amalia Dolga (a.m.dolga@rug.nl / University of Groningen, Groningen), Claudia Staab-Wejinitz (staab-wejinitz@helmholtz-muenchen.de / Comprehensive Pneumology Center, University Hospital of the Ludwigs-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany, Munich), Anke-Hilse Maitland-Van Der Zee, Erik Melén, Uros Potocnik, Susanne Reinartz, Elisangela Santos Valente, Susanne Vjijverberg, Cornelis Van Druenen

PA2045

LSC - 2021 - Three-dimensional niches for the physiological-like expansion of a lung mesenchymal stromal cel l subpopulation
Arturo Ibáñez Fonseca (Valladolid, Spain), Måns Kadefers (mans.kadefers@med.lu.se / Lung Biology Team, Lund University, Lund), Linda Elowsson Rendin (linda.elowsson_rendin@med.lu.se / Lung Biology Team, Lund University, Lund), Sofia Rollandsson Enes (sara.rolandsson_enes@med.lu.se / Lung Biology Team, Lund University, Lund), Carl-Erik Tiersch (carl-erik.tiersch@med.lu.se / Lung Biology Team, Lund University, Lund), José Carlos Rodríguez-Cabello (roca@bioforge.uva.es / BIOFORGE Lab, University of Valladolid - CIBER-BBN, Valladolid), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology Team, Lund University, Lund).

PA2046

LSC - 2021 - Elastin-like-recombinamer cryogel as a platform for lung regeneration
Söderlund Zackarias (Lund, Sweden), Zackarias Söderlund (zackarias.soderlund@med.lu.se / Lung Biology Team, Lund University, Lund), Arturo Ibáñez Fonseca (arturo.ibanez-fonseca@med.lu.se / Lung Biology Team, Lund University, Lund), José Carlos Rodríguez-Cabello (roca@bioforge.uva.es / BIOFORGE Lab, University of Valladolid - CIBER-BBN, Valladolid), Lei Ye (lei.ye@biokem.lth.se / Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology Team, Lund University, Lund).

PA2047

LSC - 2021 - Establishment of a human in vitro model for airway epithelial repair and regeneration
Manuela Platé (London, United Kingdom), Demetra-Ellie Phylactopoulos (ephylact@yahoo.com / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London), Sarah E Clarke (sarah.e.clarke@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Robert E Hynd (rob.hynds@ucl.ac.uk / CRUK Lung Cancer Centre of Excellence, UCL Cancer Institute, University College London, London), Sam J Janes (s.janes@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Rachel C Chambers (r.chambers@ucl.ac.uk / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London).

PA2048

LSC - 2021 - Effect of mTOR inhibition in a 3D in vitro model of alveolar epithelium and epithelial regeneration
Manuela Platé (London, United Kingdom), Demetra-Ellie Phylactopoulos (ephylact@yahoo.com / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London), Sarah E Clarke (sarah.e.clarke@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Robert E Hynd (rob.hynds@ucl.ac.uk / CRUK Lung Cancer Centre of Excellence, UCL Cancer Institute, University College London, London), Sam J Janes (s.janes@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Rachel C Chambers (r.chambers@ucl.ac.uk / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London).

PA2049

LSC - 2021 - Establishment of a human in vitro model for airway epithelial repair and regeneration
Manuela Platé (London, United Kingdom), Demetra-Ellie Phylactopoulos (ephylact@yahoo.com / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London), Sarah E Clarke (sarah.e.clarke@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Robert E Hynd (rob.hynds@ucl.ac.uk / CRUK Lung Cancer Centre of Excellence, UCL Cancer Institute, University College London, London), Sam J Janes (s.janes@ucl.ac.uk / Lungs For Living Research Centre, UCL Respiratory, University College London, London), Rachel C Chambers (r.chambers@ucl.ac.uk / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London, London).

PA2050

IL11 negatively impacts adult lung alveolar organoid formation
Rosa K. Kortekaas (Groningen, GR), Janette K. Burgess, Megan Webster, Reinoud Gosens
**Late Breaking Abstract - Human lung microbiota-driven differential innate immune landscape**

Victoria Ptasinski (Malmö, Sweden), Susan Monkley (susan.monkley1@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden, Gothenburg), Markus Tammin (markus.tamminia@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden, Gothenburg), Karolina Öst (karolina.ost@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden, Gothenburg), Catherine Overed-Sayer (catherine.overed-sayer@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Cambridge, United Kingdom, Cambridge), Petra Hazon (petra.hazon@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden, Gothenburg), Darcy E Wagner (darcy.wagner@med.lu.se / Department of Experimental Medical Sciences, Lung Bioengineering and Regeneration, Lund University, Lund, Sweden; Wallenberg Center for Molecular Medicine, Lund University, Lund, Sweden; Lund Stem Cell Center, Lund University, Lund, Sweden), Lynne A Murray (lynnemurray1@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Cambridge, United Kingdom, Cambridge)

**LSC - 2021 - Modeling idiopathic pulmonary fibrosis using induced pluripotent stem cell-derived alveolar epithelia organoids**

Emil Rehnhberg (Lund, Sweden), Sinem Tas (sinem.tas@med.lu.se / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund), Deniz Bölükbas (Deniz.Bolukbas@med.lu.se / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund), Jason Beech (jason.beech@ffl.lth.se / Division of Solid State Physics and NanoLund, Physics Department, Lund University, Box 118, Lund), Han N. Alsafadi (hani.alsafadi@med.lu.se / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund), Isak Svenningsson (isak.svenningsson@gmail.com / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund), Martin Arvidsson (nat15mar@student.lu.se / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund), Axel Sandberg (axelmannroy@gmail.com / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund), Annika Gustafsson (anna.gustafsson@bme.lth.se / Department of Biomedical Engineering, Lund University, Lund), Hanna Isaksson (hanna.isaksson@bme.lth.se / Department of Biomedical Engineering, Lund University, Lund), Jeffrey A. Wood (j.a.wood@outwente.nl / Soft Matter, Fluidics and Interfaces, MESA+ Institute for Nanotechnology, University of Twente, Enschede, 752222, Enschede), Jonas O. Tegenfeldt (jonas.tegenfeldt@ffl.lth.se / Division of Solid State Physics and NanoLund, Physics Department, Lund University, Box 118, Lund), Darcy E. Wagner (darcy.wagner@med.lu.se / Lung Bioengineering and Regeneration, Department of Experimental Medical Sciences, Lund University, Lund)

**LSC - 2021 - Lung-on-a-chip device for modelling of ventilator induced lung injury**

Inhalation in a breathing lung-on-chip device: Modelling emphysema

Anna-Maria Sengupta (Aarburg, Switzerland), Nuria Roldan, Magali Schwob, Janick Stucki, Patrick Weindl, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier Guenat

**A patient-derived lung-on-chip model to evaluate on-target/off-tumour toxicity of the therapeutic FOLR1-targeting T-Cell Bispecific antibody**

Giulia Raggi (Bern, Switzerland), Laurence Fromot, Virginie Micalle, Nuria Roldan, Lauriane Cabon, Nina Hobi

**Late Breaking Abstract - Human lung microbiota-driven differential innate immune landscape**

Sudip Das (Lausanne, Switzerland), Beatrice Tappy, Auriane Form, Philipp Engel

**Late Breaking Abstract - Hypoxia-induced cellular responses in lung fibroblasts from COPD patients and controls**

Nora Marek (Lund, Sweden), Martin Ryde, Anna Löfå, Leif Bjorner, Gunilla Westergren-Thorsson, Ellen Tufvesson, Anna-Karin Larsson-Callerfelt

**Late Breaking Abstract - Long-term Effect of Antithrombin or Argatroban for the Treatment of Acute Lung Injury**

Marta Campbrull-Rimbias (Molins de Rei, Spain), Aina Arely-Balagueró, Elena Campana-Duel, Luis Morales-Quinteros, Lluís Blanch, Antonio Artigas

**Late Breaking Abstract - A comprehensive analysis of endothelial cell markers in pulmonary fibrosis**

Elisabeth Fliesser (Graz, Austria), Anna Birnhuber, Panja Böhm, Konrad Hötzecker, Gabor Kovaè, Horst Olschewski, Grazyna Kwapiszewska

Pre-congress content Session 246 13:15 - 14:15

E-poster: Bronchiectasis

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
**Disease(s)**: Airway diseases

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

**Chairs**: Holly Rachael Keir (Dundee (Angus), United Kingdom), Michael Loebinger (London, United Kingdom)

---

The prevalence and impact of autoantibodies among people with bronchiectasis: a data analysis of the EMBARC registry

---

Characterizing Neisseria spp. as novel respiratory pathobionts in bronchiectasis
Michaël Mac Aogáin (Singapore, Singapore), Li Liang, Tengfei Xu, Tavleen Jaggi, Louisa L Y Chan, Holly R Keir, Alison J Dicker, Jing Qu, Yingsi Liu, Hong Sheng Cheng, Mariko Siyue Koh, Thun How Ong, Albert Lim Yick Hou, John Arupthan Abisheganaden, Teck Boon Low, Brian G Oliver, Nguan Soon Tan, Mingliang Fang, James D Chalmers, Deborah Snijders, Panayiotis Yiallouros, Wolf Walker, Helle Krogh Johansen, Kim G Nielsen

---

International BEAT-PCD Consensus Statement for infection prevention and control in Primary Ciliary Dyskinesia in collaboration with ERN-LUNG PCD Core Network and patient representatives

---

Characteristics and outcomes of adults with primary ciliary dyskinesia (PCD): an EMBARC/BEAT-PCD analysis
Amelia Shoemark (Dundee (Angus), United Kingdom), Eva Polverino, Francesco Blasi, Felix C Ringhausen, Anthony De Soya, Montserrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles S Haworth, Marlene Murris, Katerina Dimakou, Adam T Hill, Michele L Loebinger, Rosario Menéndez, Antoni Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James D Chalmers

---

Home Intravenous Antibiotic Therapy (HIVAT) for adult bronchiectasis patients: safe, efficacious and cost-effective
Hui Min Chen (Newcastle Upon Tyne, United Kingdom), Helen Simmons, Victoria Bradshaw, Syed Kalam, Emma Kane, George Antunes

---

Acute exacerbation of bronchiectasis – Experience of a Tunisian pulmonology department
Hana Mrassi (Tunis, Tunisia), Imen Bachouch, Nourhoulda Khezami, Nidhal Belloumi, Fatma Chermiti, Soraya Fenniche

---

Features of post-tuberculosis bronchiectasis: Tunisian comparative study
Hana Mrassi (Tunis, Tunisia), Imen Bachouch, Nourhoulda Khezami, Nidhal Belloumi, Fatma Chermiti, Soraya Fenniche

---

O’Donnell Criteria as a Score of Bad Prognosis in Hospitalized Patients with Acute Exacerbation of Non-Cystic Fibrosis Bronchiectasis, an Observetional Study
FATIMA ALHAMED ALDUIHI (Aleppo, Syrian Arab Republic), Abdullah Khoury

---

Diagnostic value of the Biofire® Filmarray Pneumonia panel compared to conventional sputum culture in patients with an exacerbation of bronchiectasis
Victoria Alcaraz Serrano (Barcelona, Spain), Patricia Elena Oscanoa Huaman, Rosanel Amaro Rodriguez, Leticia Bueno Freire, Ñil Vázquez, Laia Fernández-Barat, Antoni Torres Martí

---

Long –term survival after a first hospitalization for bronchiectasis exacerbation
Blanca Urrutia Royo (Barcelona, Spain), Ignasi Garcia-Olivé, Marina Compte Vives, Carlos Folgado López, Antoni Rosell, Jorge Abad Capa

---

Assessment of quality of life in patients with bronchiectasis
HASSENE BAILI (sousse, Tunisia), Imen Touil, Mohamed Bali, Soumaya Bouchareb, Nadia Keskes Boudawara, Yosra Brahem, Souhir Ksissa, Jihene Ayeb, Kneni Jalel, Leila Boussofara

---

Assessment of anxiety-depression disorders in patients with bronchiectasis
HASSENE BAILI (sousse, Tunisia), Imen Touil, Mohamed Bali, Soumaya Bouchareb, Nadia Keskes Boudawara, Yosra Brahem, Jihene Ayeb, Souhir Ksissa, Kneni Jalel, Leila Boussofara

---

Bronchiectasis surgery: indications and risk factors?
Abdessalem Bentetri (Sfax, Tunisia), Zied Chaari, Abderrahmen Ammar, Walid Abid, Imed Frika

---

Small-airway dysfunction among non-cystic bronchiectasis patients with different Bronchiectasis Severity Index
Donghai Ma (Barcelona, Spain), Cuiyan Tan, Changli Tu, Meizhu Chen, Kongqiu Wang, Xiaobin Zheng, Yiying Huang, Zhenguo Wang, Jian Wu, Jin Huang, Jing Liu
Systematic review of lung clearance index (LCI) in non-cystic fibrosis (CF), non-primary ciliary dyskinesia (PCD) bronchiectasis (Bx)
Christopher Hine (Birmingham, United Kingdom), Christopher Hine, Maya Desai, Jane Davies, Elizabeth Sapey, Prasad Nagakumar

SYSTEMIC INFLAMMATION IN PATIENTS WITH STABLE NON-CYSTIC FIBROSIS BRONCHIECTASIS
Liyun Qin (Barcelona, Spain), Maria Guitart, Mariela Alvarado-Miranda, Xuejie Wang, Esther Barreiro

LOSS OF MUSCLE MASS AND FUNCTION AND NUTRITIONAL ABNORMALITIES IN PATIENTS WITH BRONCHIECTASIS

Pulmonary arterial enlargement is a predictor of higher risk of exacerbations in non-cystic fibrosis bronchiectasis patients
Leonardo Freitas (São Paulo, Brazil), Blenda Nunes, Renato Miranda, Ana Luisa Maia, Samia Rached, Alberto Cukier, Rafael Stefelmach, Regina Carvalho Pinto, Rodrigo Athanazio

Predictive factors of bronchiectasis acute exacerbation severity
Ahmed Ben Saad (Monastir, Tunisia), Rania Kaddoussi, Asma Migaou, Nesrine Fahem, Samah Joobeur, Saousen Cheikh Mhamed, Naceur Rouatbi

Pre-congress content Session 247 13:15 - 14:15
E-poster: Sleep across the lifespan in the new era of COVID - 19
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Sleep and breathing disorders
Method(s): General respiratory patient care Pulmonary rehabilitation Public health Epidemiology Surgery Physiology
Tag(s): COVID

Chairs: Stefan Mihaicuta (Timisoara (Timis), Romania), Maria Bonsignore (Palermo, Italy)

Elisa Morrone (gattico-Veruno (NO), Italy), Andrea Giordano, Massimo Pistono, Fabio Cirignotta, Dina Visca, Fabio Angeli, Alberto Braghiroli

Impact of COVID lockdown on mood and sleep quality: Questionnaire-based survey
Tarang Kulkarni (Mumbai (Maharashtra), India), Alpa Dalal, Milind Sovani

Impact of the novel coronavirus (COVID-19) pandemic on sleep
Joerg Steier (London, United Kingdom), Laura Perez-Carbonell, Imran Johan Meurling, Danielle Wassermann, Valentina Gnoni, Guy Leschziner, Anna Weighall, Jason Ellis, Simon Durrant, Alanna Hare

Increased rates of obstructive sleep apnea (OSA) in COVID-19-patients
Markus Hayden (Bad Reichenhall, Germany), Gabriele Schwarz, Matthias Limbach, Steffen Merkl, Katalin Jakab, Karsten Botosch, Michael Schuler, Dennis Nowak, Konrad Schultz

PREVALENCE AND CHARACTERISTICS OF SAHS PATIENTS ADMITTED FOR COVID-19 PNEUMONIA
Amaia Urrutia Gajate (Bilbao (Bizkaia), Spain), Sonia Castro Quintas, Beatrix Gonzalez Quero, Larraitz Garcia Echeverria, Ana Gomez Larrauri, Valentín Cabriada Nuño

Evaluation of sleep disorders among health personnel treated for COVID -19 at Hassan II Hospital in Agadir.
Rahiya Bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhan

Sleep apnea patients report neglected care during COVID-19 pandemic
Christina Alexopoulou (Heraklion (Crete), Greece), Dimitrios Kyrou, Dimitra Tsakona, Dimitra Siopi, Anastasia Amfilochiou, Paschalis Steiropoulos, Athanasia Patakou, Athanasios Voulgaris, Georgia Trakada, Athina Georgopoulou, Georgia Varsou, Anastasia Chasiotou, Eumorfia Kondili, Christina Karamandou, Pantelis Natsiavas, Venetia Tsara
**PA2086**
A single centre experience of delivering a fully remote diagnostic and treatment pathway in patients with obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Safia Khalil, Meg Gibbons, Andrew Bentley, David Jones, Saba Bokhari

**PA2087**
Delivering sleep services in the COVID-19 era
Ashwin Rajhan (Stoke On Trent, United Kingdom), Gavin Comber, Matthew Mcgee, Ann Cooper, Ajit Thomas, Martin Allen

**PA2088**
Sleep medicine practices in pediatric patients during the Covid-19 pandemic
Birce Sunman (Ankara, Turkey), Nagehan Emiralioglu, Beste Ozsezen, Dilber Ademhan Tural, Halime Nayir Buyuksahin, Ismail Guzelkas, Ebru Yalcin, Deniz Dogru, Nural Kiper, Uğur Ozcelik

**PA2089**
Ambulatory Sleep Service During the COVID 19 Pandemic - A New Norm?
Ujaas Dawar (Basildon, United Kingdom), Muhammad Shafiq, Basharet Ibrahim, Farayi Ziweya, Johnson Samuel

**PA2090**
The long patient’s journey for OSA diagnosis and treatment in a public university hospital in Brazil
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Douglas Inomata, Jefferson Luis De Barros, Antônio Carlos Marão, Leticia D Campos

**PA2091**
Repeatability of the Delta 12s index to screen for paediatric obstructive sleep apnoea
Hannah Ferrin (Belfast, United Kingdom), Lauren Quinn, Niamh Galway, Michael D Shields, Dara O'Donoghue

**PA2092**
I'M SLEEPY questionnaire as a screening tool for obstructive sleep apnoea-hypopnoea syndrome in children
Andrés Piolatti-Luna (Valencia, Spain), Ana Barrés-Fernández, Sergio Iniesta-González, Angela Moreno-Palomino, Silvia Castillo-Corullón

**PA2093**
Information-motivation-behavioral skills intervention increases the CPAP adherence in OSAHS patients
YINA WANG (CHANGSHA, China), Yayong Li, Jingjie Kuang, YINA WANG

**PA2094**
Effect of educational and supportive interventions on positive airway pressure therapy adherence in patients with obstructive sleep apnea
Burcu Uysaler (izmir, Turkey), Mehmet Sezai Tashbakan, Sebnem Pirildar, Özen K. Basoglu

**PA2095**
Investigating the parameters that affect first night CPAP adherence
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Vasilieios Stavrou, George Vavougios, Zoe Danil, Evdokia Gogou, Chaido Pastaka, Nikolaos-Tiberio Economou, Chrisi Hatzoglou, Konstantinos Gourgoulianis

**PA2096**
Late Breaking Abstract - CPAP treatment in the very elderly with Ostructive Sleep Apnea. Pooled results from two multicenter randomized controlled trials
Thais Carolina Beauperthuy Levy (Valencia, Spain), Grace Jacqueline Oscullo Yepez, Silvia Ponce, Esther Pastor, Belen Orosa, Alonso Martinez, Luis Hernandez, Eusebi Chiner, Laura Vigil, Carmen Carmona, Pablo Catalan, Alfonso Murgel, Mercedes Mayos, Alberto Garcia-Ortega, Jose Gomez-Olivas, Amina Bekki, Rosa Villaescusa, David Gozal, Miguel Angel Martinez Garcia

**PA2097**
Late Breaking Abstract - Plasma metabolomics identifies obstructive sleep apnoea hypopnoea syndrome (OSAHS)
Scott O'Rourke (Bridgend, United Kingdom), Sarah Thomas, Catrin Lewis, Tina Kramaric, Sarah Bowen, Luis Mur, Keir Lewis

---

**Pre-congress content**

**Session 248**

**E-poster: Clinical effects of CFTR modulatory therapy and lung inflammation in children with cystic fibrosis**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** General respiratory patient care  Cell and molecular biology

**Tag(s):** Digital health

**Chairs:** Mirjam Stahl (Berlin, Germany), Paul Robinson (Sydney (NSW), Australia)

**PA2098**
Real-world effects of lumacaftor/ivacaftor (LUM/IVA) in people with cystic fibrosis (pwCF): interim results of a long-term safety study using US CF Foundation Patient Registry (CFFPR) data
Claire Kim (Boston, United States of America), Christopher Lee, Rachel Zahigian, Nitin Nair, Ase Sewall, Alexander Elbert
Real-world effects of tezacaftor/ivacaftor (TEZ/IVA) in people with cystic fibrosis (pwCF): interim results of a long-term safety study using US CF Foundation Patient Registry (CFFPR) data
Julie Bower (Boston, United States of America), Judy L. Shi, Verena Seliger, Daniel Campbell, Indrias Berhanu, Runyu Wu, Alexander Elbert

Observational study of ivacaftor in people with cystic fibrosis and selected non-G551D gating mutations: final results from VOCAL
Nicholas Simmonds (London, United Kingdom), Kors Van Der Ent, Carla Colombo, Nils Kinnman, Cynthia Desouza, Teja Thorat, Keval Chandarana, Carlo Castellani

The impact of Symkevi (Tezacaftor/Ivacaftor) on exercise capacity in adolescents with CF
Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Naomi Dayman, Joe Madge, Erol Gaillard

Respiratory microbiology outcomes from an observational study of ivacaftor in people with cystic fibrosis and non-G551D gating mutations (VOCAL)
Carlo Castellani (Genoa, Italy), Nicholas J. Simmonds, Carla Colombo, Nils Kinnman, Cynthia Desouza, Teja Thorat, Marci Chew, Keval Chandarana, Kors Van Der Ent

Effect of CFTR modulators on exercise tolerance and hand grip strength in CF children
Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Karen Dixon, Rebekah Butcher, Naomi Dayman, Erol Gaillard

LSC - 2021 - Effect of elexacaftor-tezacaftor-ivacaftor on pulmonary and endothelial function in a patient with advanced cystic fibrosis
Saša Rink (Ljubljana, Slovenia), Miodrag Janic (mjanic@gmail.com / Department for endocrinology, diabetes and metabolic diseases, University Medical Centre,Ljubljana), Mojca Lunder (mojca.lunder@kclj.si / Department for endocrinology, diabetes and metabolic diseases, University Medical Centre,Ljubljana), Mišo Sabovic (miso.sabovic@kclj.si / Department of vascular diseases, University Medical Centre,Ljubljana), Barbara Salobir (barbara.salobir.pulmo@kclj.si / Department of pulmonology, University Medical Centre,Ljubljana)

TNF and LTA gene polymorphisms in cystic fibrosis patients with Burkholderia cepacia complex (Bcc)
Vassily Shmarin (Moscow, Russian Federation), Daria Pukhalskaya, Tatiana Bukina, Stanislav Krasovsky, Sergey Semykin, Maria Usacheva, Lucine Avakian, Nataliya Kashirskaya, Galina Shmarina

Inflammation in cystic fibrosis patients: study of the eicosanoid pathway and severity correlations.
Silvia Gartner (Barcelona, Spain), Paula Fernandez-Alvarez, Isabel Lima, Sandra Rovira, César Picado, Elena Garcia-Arumi, Inés De Mir, Alba Torrent, Antonio Moreno, Ignacio Iglesias, Eduardo Tizzano

The persistence of Nontypeable Haemophilus Influenzae fuels type 17 immunity in the lung
Nicola Ivan Lore' (Milano (MI), Italy), Fabio Salui, Giulia Rizzo, Alessandra Bragonzi, Lisa Cariani, Daniela M. Cirillo, Carla Colombo, Valeria Daccò, Daniela Girelli, Sara Rizzetto, Cristina Cigana

Pre-congress content
Session 249 13:15 - 14:15
E-poster: New approaches to pulmonary rehabilitation and chronic care
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Respiratory critical care, Interstitial lung diseases
Method(s): Pulmonary function testing, Pulmonary rehabilitation, General respiratory patient care, Public health
Tag(s): COVID, Digital health
Chairs: Audrey Borghi Silva (São Carlos (SP), Brazil), Anja Frei (Zürich, Switzerland)

Clinical and economic benefits of HMV telemonitoring in Brazil
Claudia Simeire Albertini (São Paulo (SP), Brazil), Luiz Vidigal, Renato Prado Junior, Andressa Silva, Sarah Souza, Ruy Pires-Neto, Vinicius Pafume, Carlos Rochi

Inês Martin Corrons (Woluwe Saint Lambert, Belgium), William Poncin, Fred Braem, Lia Baudet, Stephane Fizaine, Frank Aboubakar, Antoine Froidure, Charles Pilette, Giuseppe Listero, Julien Degreef, Halil Yildiz, Lucie Pothen, Jean-Cyr Yombi, Leila Belkhir, Gregory Reychler

Role of Telemedicine in post-COVID pulmonary rehabilitation
Tarang Kulkarni (Mumbai (Maharashtra), India), Ankita Asher, Manas Mengar, Alpa Dalal
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA211</td>
<td><strong>Emerging Pulmonary Rehabilitation (PR) in the digital world</strong></td>
<td>Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Rachelle Gorman, Laura Pearson, David Barber, Helen Ticklle, Max Betty, Michela Zanzi, Linda Jones, Veronica Beardwood</td>
</tr>
<tr>
<td>PA212</td>
<td><strong>Six-minute walk test and telemonitoring of daily activities compared: implications to clinical interventions guided by oximetry.</strong></td>
<td>Catarina Duarte Santos (Almada, Portugal), Ana Santos, Rui César Das Neves, Ruy M. Ribeiro, Fátima Rodrigues, Cátia Caneiras, Martijn A. Spruit, Cristina Bárbbara</td>
</tr>
<tr>
<td>PA213</td>
<td><strong>Adherence to home-based pulmonary rehabilitation among COPD patients</strong></td>
<td>Vitalii Poberezhets (Vinnytsia, Ukraine), Anna Demchuk, Yuriy Mostovoy</td>
</tr>
<tr>
<td>PA214</td>
<td><strong>A machine learning approach to suspect excessive inactivity in COPD patients using non-activity-related clinical data</strong></td>
<td>Bernard Aguilaniu (Grenoble, France), Eric Kelkel, Anne Rigal, David Hess, Amandine Briault, Marie Destors, Jacques Boutros, Pei Zhi Li, Anestis Antoniadis</td>
</tr>
<tr>
<td>PA215</td>
<td><strong>Economic evaluation of the British Lung Foundation Active Steps service</strong></td>
<td>Colin Ridyard (Pentraeth, United Kingdom), Arwel Jones, Hayley Robinson, Mark Saunders, Amanda Brewster, Graham Law, Niroshan Siriwardena, Jenna Peel, Joel Shopland, Claire Wilson, Susan Frizzell, Jan Swan, Abi Dean, Mark Hinchliffe, Murray Smith</td>
</tr>
<tr>
<td>PA216</td>
<td><strong>Virtual pulmonary rehabilitation: virtual reality or virtual insanity?</strong></td>
<td>Kate Devenney (Dublin, Ireland), Ciara Gleeson</td>
</tr>
<tr>
<td>PA217</td>
<td><strong>Laboratory components of pulmonary rehabilitation (PR) efficiency assessment in patients with COPD</strong></td>
<td>Bohdana Basina (Dnipropetrovsk, Ukraine), L Konopkina, K Bielosludtseva, N Kravchenko, T Kirieieva</td>
</tr>
<tr>
<td>PA218</td>
<td><strong>Results from a multidisciplinary rehabilitation program with patients post-COVID-19 infection.</strong></td>
<td>Luiz Carlos Custodio Fontana (Criciúma, Brazil), Gustavo Bernardo, Carla De Oliveira Bernardo, Jamile De Assis Vieira, Fernando Milanez Dias, Bruno Minotto Bom, Douglas José Nazario</td>
</tr>
<tr>
<td>PA219</td>
<td><strong>Late Breaking Abstract - Outpatient pulmonary rehabilitation in patients with long COVID</strong></td>
<td>Stephan Nopp (Vienna, Austria), Florian Moik, Frederikus A. Klok, Dietlinde Gattinger, Milos Petrovic, Karin Vonbank, Andreas R. Koczulla, Cihan Ay, Ralf Zwick</td>
</tr>
<tr>
<td>PA220</td>
<td><strong>Admission Avoidance and Early Supported Discharge with Home Monitoring in COVID-19 Patients</strong></td>
<td>Marcus Anthony Pittman (Basildon (Essex), United Kingdom), Angela Marney, Matilda Boa, Anthony Schirn, Fawad Ali</td>
</tr>
<tr>
<td>PA221</td>
<td><strong>Between-day reliability of a novel incremental step test to assess exercise capacity in COPD patients.</strong></td>
<td>Rui Vilarinho (Maia, Portugal), Rui Vilarinho, Lúcia Serra, Cátia Esteves, Cátia Caneiras, Antônio Mesquita Montes</td>
</tr>
<tr>
<td>PA222</td>
<td><strong>Acute exacerbation of COPD patients therapy priorities: A survey study</strong></td>
<td>Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh</td>
</tr>
<tr>
<td>PA223</td>
<td><strong>Impact of a home-based rehabilitation program on functional respiratory parameters and quality of life in COPD patients</strong></td>
<td>Nidhal Belloumi (la manouba, Tunisia), Meriem Hamdi, Imen Bachouche, Chaima Habbouria, Fatma Chermiti, Soraya Fenniche</td>
</tr>
<tr>
<td>PA224</td>
<td><strong>The impact of COVID-19 shielding on levels of physical activity and health-related quality of life in COPD patients following pulmonary rehabilitation</strong></td>
<td>Emily Hume (Newcastle Upon Tyne, United Kingdom), Matthew Armstrong, James Manifield, Laura Mcneillie, Francesca Chambers, Lynsey Wakenshaw, Graham Burns, Karen Heslop Marshall, Ioannis Vogiatzis</td>
</tr>
<tr>
<td>PA225</td>
<td><strong>Role of Pulmonary Rehabilitation (PR) on clinical care in patients with advance Interstitial Lung Diseases. Does it make any difference?</strong></td>
<td>Ayaz Mohammad Khan (Riyadh 11426, Saudi Arabia), Rajkumar Rajendram, Hamdan Aljahdali, Abdullah Harbi, Majed Alghamdi, Sarah Alrasheed, Mohammad Hamadi, Basema Alghamdi, Suleiman Alrahji</td>
</tr>
<tr>
<td>PA226</td>
<td><strong>To explore the prevalence and impact of hip and/or knee pain in patients presenting for Pulmonary Rehabilitation</strong></td>
<td>Samuel Briggs-Price (Leicester, United Kingdom), Enya Daynes, Olivia Revitt, Linzy Houchen-Wollof, Sally Singh</td>
</tr>
<tr>
<td>PA227</td>
<td><strong>Late Breaking Abstract - Reported outcomes in patients referred with persisting respiratory symptoms following non-hospitalised COVID-19</strong></td>
<td>Theresa Harvey-Dunstan (Loughborough (Leicestershire), United Kingdom), Alex Jenkins, Ayushman Gupta, Ian Hall, Charlotte Bolton</td>
</tr>
</tbody>
</table>

Pre-congress content  Session 250  13:15 - 14:15

E-poster: Pharmacology of airway diseases: clinical and laboratory studies
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Respiratory critical care

Method(s): Pulmonary rehabilitation, Cell and molecular biology, Endoscopy and interventional pulmonology, Public health

Chairs: Andrew Higham (Manchester (Greater Manchester), United Kingdom), Lena Uller (Lund, Sweden)

PA2128
GRC39815-A novel inhaled RORγt inhibitor as a potential first in class treatment option for COPD
Abhay Kulkarni (NAVI MUMBAI (Maharashtra), India), Sanjib Das, Sandeep Shelke, Shailesh Pardeshi, Malini Bajpai, Varada Potdar, Sheetal Kadam, Vikram Bhosale, Hansraj Patil, Dayanidhi Behera, Venkateshka Udupa, K.R. Vinod, Cynthia Caracta, Pravin Iyer

PA2129
Beclomethasone, formoterol and glycopyrronium: synergy of dual and triple combinations in an ex vivo model of COPD exacerbation
Luigino Calzetta (Roma (RM), Italy), Ermanno Puxeddu, Francesco Facciolo, Paola Rogliani

PA2130
Adding glycopyrronium to beclomethasone/formoterol combination: synergistic effect on human medium bronchi of COPD donors
Paola Rogliani (Roma (RM), Italy), Josuel Oro, Andrea Girolami, Immacolata Rossi, Ilaria De Guido, Francesco Facciolo, Mario Cazzola, Luigino Calzetta

PA2131
Impact of Bronchial Rheoplasty on exacerbations in chronic bronchitis: a US feasibility study
Victor Kim (Philadelphia, United States of America), Gerard Criner, Frank Sciurba, Alejandro Comellas, Adnan Majid, Kyle Hogarth, Nathaniel Marchetti, Mark Dransfield

PA2132
Bronchial Rheoplasty improves respiratory and sleep symptoms in chronic bronchitis
Victor Kim (Philadelphia, United States of America), William Krinsky, Brett Bannan

PA2133
Exploring the molecular potential of bacterial lysates to reduce COVID-19 susceptibility of bronchial epithelial cells in vitro
Lei Fang (Basel, Switzerland), Lei Fang, Liang Zhou, Michael Tamm, Michael Roth

PA2136
Imiquimod shows anti-viral actions in human bronchial epithelium - implications for COVID-19 treatment
Sofía Magdalena Tillgren (Ramilös, Sweden), Juan José Nieto Fontarigo, Samuel Cerps, Morten Hvidtfeldt, Asger Sverrild, Celeste Porsbjerg, Lena Uller

PA2137
The effect of fluconazole on the pharmacokinetics of ensifentrine in healthy individuals
Tara Rheault (Raleigh, United States of America), Tara Rheault, Martin Kankam, John Ayrton, Thomas Bengtsson, Kathleen Rickard

PA2138
1-?-alkyl-glycerols Reduce Level of Inflammatory Cytokines In Obese Asthma
Yulia Denisenko (Vladivostok, Russian Federation), Marina Antonyuk, Alla Yurenko, Tatyana Gvozdenko, Elena Mineeva, Karolina Sidletskaia, Julliy Perelman, Anna Prikhodko

PA2139
The Impact of Conjugated Pneumococcal Vaccine on Exacerbation Frequency in Patients with COPD
Yelda Varol (Izmir, Turkey), Zeynep Öndeş, Ali Kadri Çirak, Burcin Hakoglu, Serpil Tekgul
Estimating the prevalence of undiagnosed inducible laryngeal obstruction within a severe asthma cohort
Elise Akerman (Birmingham, United Kingdom), Naomi Atkins, Benjamin Sutton, Nicola Pargeter

Exploring inflammation-related plasma biomarkers in young adults with allergic- or non-allergic asthma
Sophia Björkander (Stockholm, Sweden), Susanna Klevebro, Maura Kere, Olena Gruzieva, Maria Mikus, Marianne Van Hage, Sven-Erik Dahlén, Antonis Georgellis, Anna Bergström, Inger Kull, Erik Melén

Upbringing in cities is associated with an increased risk of asthma in adulthood
Howraman Meteran (København, Denmark), Vibeke Backer, Simon Francis Thomsen, Jacob Hjelmborg, Torben Sigsgaard

The risk of depression in twin pairs discordant for asthma in a nationwide study
Howraman Meteran (København, Denmark), Simon Francis Thomsen, Torben Sigsgaard, Jacob Hjelmborg, Vibeke Backer

LSC - 2021 - Associations between pediatric asthma and adult lung diseases
Nirmin Juber (Jakarta, Indonesia), Jason Liu (aimarrm@gmail.com / National Yang-Ming University, Taipei)

Late Breaking Abstract - Shared genetic origins of obesity and poor ICS response in children with asthma
Cristina Longo (Laval, Canada), Erick Forno, Andreas Boeck, Juan Celedon, Wei Chen, Raquel Granell, Michael Salvermoser, Bianca Schaub, Stephen Turner, Suzanne Vijverberg, Anke-Hilse Maitland-Van Der Zee

Prevalence and severity of multidimensional breathlessness among elderly men in the population.
Max Olsson (Helsingborg, Sweden), David C Currow, Miriam J Johnson, Jacob Sandberg, Gunnar Engström, Magnus Ekström

Use of inhaled corticosteroids and the risk of depressive symptoms in patients with chronic obstructive pulmonary disease
Alexander Jordan (Copenhagen N, Denmark), Pradeesh Sivapalan, Josefin Ëklof, Jacob Vestergaard, Howraman Meteran, Mohamad Isam Saed, Tor Biering-Sorensen, Anders Lokke, Filip Krag Knop, Niels Seersholm, Jens Ulrik Stehr Jensen

Severe a1-antitrypsin deficiency associated with reduced blood pressure and lower plasma triglycerides in the general population
Sine V Winther (Køge, Denmark), Eskild M Landt, Børge G Nordestgaard, Niels Seersholm, Morten Dahl

COPD - Impact on Mortality in Locals with and without Specific Medication
Telma de Cassia dos Santos Nery (São Paulo (SP), Brazil), Naiara Santos Bispo, Raphael Stelmach

Prevalence of chronic obstructive pulmonary diseases with acute exacerbation and its associated factors treated by out-of-hospital emergencies in Madrid
ANA MARIA CINTORA (Alcobendas, Spain), Cristina Horrillo, Alicia Gutierrez, Eva Teresa Robledi, Ana Maria Perez

Comorbidity of adult asthma and gastroesophageal reflux disease in a large twin cohort: the role of genes and affective traits.
Bronwyn Brew Haasdyk (Sydney (NSW), Australia), Catarina Almqvist, Cecilia Lundholm, Anna Andreasson, Kelli Lehto, Nicholas Talley, Tong Gong

Overview of hospital care of elderly patients with coronavirus infection in COVID unit in Slovenia.
Jurij Regvat (maribor, Slovenia), Jurij Regvat, Ilonka Osrajnik, Iztok Fošnarič

Late Breaking Abstract - ORAL corticosteroid (OCS) risk predictor for osteoporosis
Brooklyn Stanley (One Shenton, Singapore), Jatin Chapareri, Trung Tran, Ekaterina Maslova, Victoria Carter, David Price

Pre-congress content Session 252 13:15 - 14:15
E-poster: Early-life infections, wheezing and asthma
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s):** Digital health

**Chairs:** Samatha Sonnappa (London, United Kingdom), Nicola Ullmann (Roma (RM), Italy)

**PA2160**
**Caregiver burden in paediatric asthma and preschool wheeze and the role of asthma education**
Ember Lu (Philadelphia, United States of America), Simona Boccaletti, Tom Keeley, Anna Richards

**PA2161**
**Mitochondria are involved in bronchial smooth muscle remodeling in severe preschool wheezers**
Fabien Beauvais (Bordeaux, France), Pauline Esteves, Raphaël Enaud, Ophélie Germande, Alexis Celle, Roger Martin, Michael Fayon, Patrick Berger

**PA2162**
**Three years’ follow up: relationship of maternal depression and anxiety with ever-wheezing**
Ozge Yilmaz (Manisa, Turkey), Adem Yasar, Merve Ocalan, Pinar Ay, Tune Alkin, Solmaz Hasdemir, Hasan Yuksel

**PA2163**
**Severity scores published for acute wheeze in preschool children: a systematic review**
Emma Wilkinson (Liverpool, United Kingdom), William Bedson, Paul McNamara, Daniel Hawcutt

**PA2164**
**How does the Canadian Acute Respiratory Illness and Flu Scale relate to other scales in paediatric asthma exacerbations?**
Laurel Teoh (QLD, Australia), Mark Chatfield, Jason Acworth, Gabrielle Mccallum, Anne Chang

**PA2165**
**Identification of two distinct microbial enterophenotypes in children with moderate-to-severe asthma: results from the SysPharmPedA study**
Mahmoud Ismael Abdel-Aziz (Amsterdam, Netherlands), Anne H. Neerinxc, Susanne J. H. Vijverberg, Simone Hashimoto, Mario Gorenjak, Antoaneta A. Toncheva, Parasoot Kheiroddin, Susanne Harner, Susanne Brandstetter, Christine Wolff, Olaiia Sardón Prado, Paula Corcuera Elósegui, Javier Korta Murua, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D. Kraneveld, Anke H. Maitland-Van Der Zee

**PA2166**
**Clustering children by throat swabs identifies asthma-related patterns.**
Martin Depner (Neuherberg, Germany), Giulia Pagani, Andreas Böeck, Bärbel Fösel, Kathrin Zeber, Kathrin Urner, Michael Schloter, Erika Von Mutius, Bianca Schaub

**PA2167**
**Severe asthma in children: shall we carry out systematic bronchoalveolar lavage?**
Raja Ben Tkhayat (Paris, France), Jocelyne Just, Nadia Nathan

**PA2168**
**Respiratory infections in infancy are associated with pre-school asthma**
Maria Medeleanu (Toronto, Canada), Myrtha Reyna, Kozeta Miliku, Theo Moraes, Padmaja Subbarao

**PA2169**
**Management of children aged 1-5 admitted and treated for a clinical diagnosis of acute asthma compared to those aged 6-16 in secondary care in England and Wales.**
Alexander Adamson (London, United Kingdom), Ian Sinha, C Mike Roberts, Jennifer K Quint

**PA2170**
**Association of serum IgE level with wheezing phenotype in preschool children: A cross-sectional study**
Prawin Kumar (Jodhpur (Rajasthan), India), Jagdish Goyal, Shrimanjunath Sankanagoudar, Vibhor Tak, Daisy Khera, Kuldeep Singh

**PA2171**
**Using quality improvement project to improve childhood asthma outcomes in low resource setting**
Justus Simba (Thika, Kenya), Caren Emadadu, Patrick Mburugu, Julian Wachira, Miriam Moseti, Beatrice Kamau, Florence Nduate, Sarah Mayell, Francis Ogaro, Ian Sinha

**PA2172**
**Childhood asthma care in a secondary hospital in Kenya: Parental perceptions from a quality improvement project**
Justus Simba (Thika, Kenya), Caren Emadadu, Patrick Mburugu, Julian Wachira, Esther Mwangi, Josephine Aritho, Francis Ogaro, Ian Sinha

**PA2173**
**Effect of zinc supplementation in children with asthma**
Sajith Jayasree Sadanandan (TRIVANDRUM (KERALA), India)

**PA2174**
**Influence of VDR gene polymorphisms on vitamin D supply in patients with bronchial asthma in the Russian Federation**
Elena Loshkova (Tomsk, Russian Federation), Elena Kondratyeva, Yuri Mizerntskiy, Natalia Ilyenkova, Svetlana Dyakova, Elena Zhekaite, Vladimir Chikunov, Leonid Klimov, Svetlana Dobnya, Victoria Kuryaninova, Julia Melianovskaya, Aisa Zodbinova
Pre-congress content  

**Session 253**  
**13:15 - 14:15**

**E-poster: Screening, diagnosis, management and prognosis of lung cancer**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):**  
- Thoracic oncology  
- Airway diseases

**Method(s):**  
- General respiratory patient care  
- Public health  
- Surgery  
- Epidemiology  
- Cell and molecular biology  
- Palliative care  
- Endoscopy and interventional pulmonology  
- Imaging

**Chairs:**  
Fernando Gamarra (Straubing, Germany), Wouter H. van Geffen (Leeuwarden, Netherlands)

---

**PA2175**  
Computed tomography (CT) in children with long-term synonasal symptoms (SNS).  
Igor A. Klimanov (Moscow, Russian Federation), Mariya Gluhova, Nikolay Eruslankin, Kirill Grachev, Georgii Ignatov, Svetlanaasilnikova Krasilnikova, Tatyana Eliseeva, Vilya Bulgakova, Natalia Popova

---

**PA2176**  
A basic prediction model with clinical parameters to diagnose lung cancer.  
Marianne van Engelend (Enschede, Netherlands), Sharina Kort, Job Van Der Palen

---

**PA2177**  
Proportion of incident lungs that would have been eligible for a lung cancer screening program in Australia  
Marianne Turner (Sydney (NSW), Australia), Lillian Smyth, Nicole Taylor, Stuart Schembri

---

**PA2178**  
DR-70, A promising biomarker for the detection of lung cancer>  
Aysu Sinem Koç (Izmir, Turkey), Güler Özgül, Demet Turan, Suat Hayri Kükçük, Şule Özsoy, Kürşad Nuri Baydili, Eray Metin Güler, Mehmet Akif Özgül, Zeynep Eğri Kansu, Ekrem Cengiz Seyhan

---

**PA2179**  
Impact of a lung cancer screening programme on a London hospital service  
Elizabeth Thompson (London, United Kingdom), Will Ricketts, Stephanie Uys, Lianne Castle

---

**PA2180**  
Lung nodules: a diagnosis’ challenge in Pulmonology  
Mariana Ramos Martins (Faro, Portugal), Cláudia Freitas, David Coelho, Catarina Sousa, Vanessa Santos, José Miguel Pereira, Conceiçao Souto-Moura, Venceslau Hespanhol

---

**PA2181**  
Non-small-cell lung cancer molecular typification using Next-generation sequencing in cytological samples from EBUS-TBNA  
Blanca Urruchía Royo (Barcelona, Spain), Carmen Centeno Clemente, José Luis Mate Sanz, Enric Carcereny Costa, Pere Serra Mitja, Marta Ávila Terzi, Rachid Tazi Mezalek, Antoni Rosell Gratacos, Felipe Andreo García

---

**PA2182**  
Iodine-125 seed brachytherapy combined with pembrolizumab for advanced non-small-cell lung cancer after failure of first-line chemotherapy.  
Mingli Yuan (Wuhan, China), Yi Hu, Liangchao Wang, Yang Xiao, Xiaozun Guo

---

**PA2183**  
Alpha-1 antitrypsin deficiency and lung cancer: Description of a cohort of patients in northwestern Spain  
Ramon Antonio Tubio Perez (Vigo, Pontevedra, Spain), María Torres Durán, Esmeralda García Rodríguez, Raquel Dacal Quintas, Jose Abal Arca, Isaura Parente Lamelas, Carlos Vilarinho Pombo, Alberto Ruano Raviña, Alberto Fernandez Villar

---

**PA2184**  
LUNG ADENOCARCINOMA: CLINICAL CHARACTERISTICS, MOLECULAR STUDY, DIAGNOSIS AND TREATMENT.  
Fernando Garcia (Getafe, Spain), Maria Teresa Rio Ramirez, Ana Sanchez Peña, Jose Maria Diaz Garcia, Beatriz Raboso Moreno, Adriana Rodriguez Perojo, Araceli Abad Fernandez

---

**PA2185**  
Epithelioid hemangioendothelioma of the lungs: 24 cases  
Tatyana Novitskaya (St. Petersburg, Russian Federation), Ivett Dvorakovskaya, Boris Ariel, Lyudmila Novikova, Sergey Bugrov

---

**PA2186**  
Radial endobronchial ultrasound guided transbronchial cryobiopsy with fluoroscopy in the diagnosis of peripheral lung tumor: experience of the Hospital of Lithuanian University of Health Sciences Kauno Klinikos  
Vytantas Ankudavicius (Kaunas, Lithuania), Marius Zemaitis, Skaidrius Miliauskas

---

**PA2187**  
First hospitalization in lung cancer patients – is timing important?  
Marina Conde (Guimarães, Portugal), Sara Raimundo, Maria Brandão, Catarina Parra, Artur Vale, Ana Fernandes

---

**PA2188**  
Impact of PD-L1 expression levels on the response to pembrolizumab in metastatic non-small cell lung cancer>  
João Nunes Caldeira Matos (Ponta Delgada, Portugal), Sofia Rodrigues Sousa, Ana Maria Figueiredo, Alice Pego, Fernando Barata

---

**PA2189**  
The importance of the disease-free survival (DFS) endpoint to survivors of lung cancer  
Andrea Bever (Squamish, Canada), Jackie Manthorne, Tissa Rahim, Layla Moumin, Karissa Johnston, Shelagh Szabo

---

**PA2190**  
The importance of the disease-free survival (DFS) endpoint to survivors of lung cancer  
Andrea Bever (Squamish, Canada), Jackie Manthorne, Tissa Rahim, Layla Moumin, Karissa Johnston, Shelagh Szabo
Pre-congress content  
**Session 254  13:15 - 14:15**

**E-poster: Cystic fibrosis**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** Imaging  Cell and molecular biology  General respiratory patient care  Endoscopy and interventional pulmonology  Transplantation  Pulmonary rehabilitation

**Chairs:** Predrag Minic (Beograd, Republic of Serbia), Harry G.M. Heijerman (Utrecht, Netherlands)

PA2192  **Functional respiratory imaging assessment of the aerosol deposition of inhaled levofloxacin in cystic fibrosis lungs**
Claudio Procaccianti (MILAN, Italy), Carsten Schwarz, Dennis Belmans, Benjamin Mignot, Nicolas Schwenck, Xabier Murgia, Federico Bianco

PA2193  **In vitro effect of combined hypertonic saline and salbutamol on ciliary beat frequency of human nasal epithelial cells**
Loretta Müller (Bern, Switzerland), Anaïs Escher, Philipp Latzin, Carmen Casaulta

PA2194  **New algorithm of antibiotic selection reveals the abundance and reduces bacterial load in sputum of adult patients with cystic fibrosis.**
Maria Vecherkovskaya (Saint Petersburg, Russian Federation), George Tetz, Cristina Kardava, Tatyana Gembitskaya, Victor Tetz

PA2195  **Assessment of NuvoAir platform use on clinical outcomes in adults with cystic fibrosis: a first Italian experience**
Daniela Savi (Rome, Italy), Vincenzo Carnovale, Paola Iacutucci, Pietro Medio, Lorenza Ferrillo, Serena Buonaurio, Marcella D'Ippolito, Assunta Celardo, Steven Coughlin

PA2196  **Evaluation of the tolerability of the dornalfa alfa based on the results of a multicenter scientific program of post-marketing use of the medicine**
Vera Shadrina (Perm, Russian Federation), Elena Kondratyeva, Evgeny Furman, Anna Voronkova, ViktoriaiSherman, Elena Zhekaite, Olga Simanov, Alexander Malakhov, Maria Mukhina, Elena Yakushima, Olga Vysokolova, Natalya Ilyenkova, Svetlana Trishina, Tatiana Safonova, Elena Vasilyeva, Olga Golubtsova

PA2197  **Nontuberculous mycobacteria (NTM) in Cystic fibrosis (CF) patients over the last decade: real-life data from Verona CF center**
Francesca Lucca (Verona, Italy), Giulia Cucchietto, Sonia Volpi, Marco Cipolli

PA2198  **Propofol sedation in lung transplant recipients: the impact of cystic fibrosis.**
Marco Damin (Padova (PD), Italy), Davide Biondini, Mariaenrica Tine, Elisabetta Coconcelli, Michele Rizzo, Giulia Andreotti, Nicola Malacchini, Simone Petraruolo, Federico Lionello, Manuel G. Cosio, Marina Saetta

Pre-congress content  
**Session 255  13:15 - 14:15**

**E-poster: An update on respiratory physiotherapy and respiratory muscle function and training**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** Pulmonary function testing  Pulmonary rehabilitation  Respiratory intensive care  Physiology  General respiratory patient care  Imaging

**Chairs:** Abraham Samuel Babu (Manipal (Karnataka), India), Michelle Chatwin (London, United Kingdom)

PA2199  **Airway clearance practice in people with bronchiectasis: A Northern Ireland (NI) survey**
Judy Bradley (BELFAST, United Kingdom), Katherine O'Neill, Brenda O'Neill, Jeanette Boyd, Rebecca Mc Grath, James D. Chalmers, Anthony De Soyza

PA2200  **Presence of Respiratory Physiotherapy in Spanish pediatric Intensive Care Units**
Ana Lista Paz (A Coruña, Spain), Laura Torreiro Diéguez, Dani Martí Romeu, Sonia Souto Camba, Luz González Doniz, Mariona Farrés Taraña
Intrapulmonary percussive ventilation in critical care: a systematic review and meta-analysis
Anwar Hassan (Glenmore Park, Australia), William Lai, Jennifer Alison, Stephen Huang, Maree Milross

IMPACT OF NON-INVASIVE VENTILATION IMMEDIATELY AFTER EXTUBATION ON CLINICAL AND FUNCTIONAL OUTCOMES IN PATIENTS SUBMITTED TO CORONARY ARTERY BYPASS GRAFTING: CLINICAL TRIAL
André Luiz Cordeiro (Feira De Santana (BA), Brazil), Carolina Silva, Kênia Lima, Mayana Santana, André Guimarães, Patricia Forestieri, Luiz Alberto Forgiarini

Outcomes of physiotherapy management in children and young people (CYP) with breathing pattern disorders (BPD)
Naomi Parsons (Coventry, United Kingdom), Prasad Nagakumar, Jamila Tomlinson, Susan Frost, Ben Davies, Satish Rao

Hold your breath again: Exploring dysfunctional breathing assessments in healthy individuals
Lais Vidotto (London, United Kingdom), Celso Ricardo Fernandes De Carvalho, Costas I. Carageorghis, Panagiota Smyrni

Acute effects of Threshold Inspiratory Muscle Training on sputum volume, pulmonary functions and length of hospital stay among patients with COPD in a tertiary health care set up of a low-middle income country- A Pilot Randomized Controlled Trial
Quinette Ribeiro (Thane, India), Cherishma Dsilva, Don Gregory Mascerenhas, Sydney Rebello

The Results of Functional Magnetic Resonance Imaging of High Intensity-Inspiratory Muscle Training
Naciye Vardar Yağlı (Ankara, Turkey), Melda Saglam, Hacer Daşgün, Kader Karlı Oğuz

INSPIRATORY MUSCLE TRAINING IN PATIENTS IN THE POSTOPERATIVE OF CARDIAC SURGERY: A SYSTEMATIC REVIEW AND META-ANALYSIS[MGN1] [MOU2] > [MGN1]Pre ou pos cirurgia, ou ambos? [MOU2]Apenas no pré-operatório.
André Luiz Cordeiro (Feira De Santana (BA), Brazil), Lucas Oliveira

Inspiratory muscle metaboreflex during a progressive inspiratory threshold loading test
Étore F. Signini (São Carlos, Brazil), Patricia Rehder-Santos, Raphael Abreu, Camila Sakaguchi, Claudio Silva, Ana Carolina Marcondes, Bruno Ribeiro, Vinicius Minatel, Juliana Milan-Matts, Renato Carneiro, Aparecida Cataria

Does the diaphragm contribute to balance control in patients with COPD?
Lotte Janssens (Diepenbeek, Belgium), Nina Jacobs, Daniel Langer, Sauwaluk Dacha, Zafeiris Louvaris, Simon Brumagne, Nina Goossens, Wim Janssens, Luc Janssens, Marc Geraerts, Remco Baggen, Rik Gosselink

The effects of respiratory muscle functions on trunk muscle endurance in healthy young adults
Ridvan Aktan (Balcova (İzmir), Turkey), Ozge Ocaker Aktan, Hazal Yakut, Sevgi Ozalevli, Bilge Kara

Respiratory muscle function and inspiratory muscle strength in patients with long COVID, ILD or COPD in comparison to healthy controls: Preliminary results.
Tamara Zlámalová (Holesov, Czech Republic), Pavla Horová, Martin Dvoracek, Zuzana Krsaková, Katerina Neumannová

VENTILATORY MUSCLE STRENGTH SIX MONTHS AFTER CORONARY ARTERY BYPASS GRAFTING IN PATIENTS SUBMITTED TO INSPIRATORY MUSCULAR TRAINING BASED ON THE ANAEROBIOsis THRESHOLD: CLINICAL TRIAL
André Luiz Cordeiro (Feira De Santana (BA), Brazil), Larissa Almeida, Jackeline Leite, Hayssa Mascarenhas, André Guimarães, Luiz Alberto Forgiarini, Jefferson Peto

Respiratory muscle strength and functional capacity of individuals with chronic kidney failure
Eli Forti (Capivarì, Brazil), Isabela Nascimento, Nataly Mendes Da Silva, Ana Flávia Rachid De Medeiros, Tamires Alessa De Mori, Silvia Beatriz Serra Baruki, Maura Rigoldi Simões Da Rocha, Marlene Moreno

The relationship between inspiratory muscle strength with the parameters from structured light plethysmography
Melda Saglam (Ankara, Turkey), Naciye Vardar-Yaglı, Hacer Dasgın, Kader Karlı-Oğuz

Pre-congress content Session 256 13:15 - 14:15
E-poster: Comorbidities in airway obstructive diseases
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Airway diseases
Method(s): General respiratory patient care Physiology Endoscopy and interventional pulmonology Imaging Pulmonary function testing Epidemiology Cell and molecular biology
Chairs: Lucia Cestelli (Bergen, Norway), Florence Schleich (Liège, Belgium)
Laryngeal dysfunction is predominant in asthmatic women treated by inhaled corticosteroids
Nicolas Migueres (Strasbourg, France), Christina Delmas, Julie Petit Thomas, Hélène Kuntz, Elisabeth Peri-Fontaa, Philippe Schultz, Michel Velten, Frédéric De Blay

The cut-off values for Visual Analogue Scale (VAS) and for the Assessment Tool for Asthma (ATA) according the Control for Asthma and Allergic Rhinitis Test (CARAT)
Bilun Gemicioğlu (Istanbul, Turkey), DENIZ ONGEL HARBIYELI, Hayriye Ertem Vehid, Jean Bousquet, João Fonseca

Clinical characterization of T2 low phenotype
Vitina Carriero (Orbassano, Italy), Andrea Elio Sprio, Andrea Baroso, Giorgio Ciprandi, Elisa Riccardi, Francesca Bertolini, Fabio Luigi Massimo Ricciardolo

Respiratory, cardiovascular and systemic factors associated with brain damage in Chronic Obstructive Pulmonary Disease (COPD) and/or coronary artery disease (CAD)
Catherine Anne Spilling (London, United Kingdom), Mohani-Preet Dhillion, Daniel Burrage, Sachelle Ruickbie, Emma Baker, Thomas Barrick, Paul Jones

Impact of cytokines on endothelium in COPD patients
Olga Arkhipkina (Kharkiv, Ukraine)

Clinical and functional characteristics of the natural course of COPD
Stanislav Kotlyarov (Ryazan, Russian Federation)

The nutritional status of COPD exacerbators
Carina Rólo Silvestre (S. João das Lampas, Portugal), Tiago Dias Domingues, Maria Cavaco, André Nunes, Ricardo Cordeiro, Teresa Silva Santos, Teresa Falcão, Antônio Domingos

Inflammation and physical capacity in relation to clinical COPD clustering
Sebastian Gagatek (Stockholm, Sweden), Björn Ställberg, Christer Janson, Kristina Bröms, Hans Hedenström, Karin Lisspers, Marieann Högmän, Andrei Malinovschi

Study of gastroesophageal reflux disease in frequent exacerbations of chronic obstructive pulmonary disease
Aigoul Zinnatullina (Kazan (Republic of Tatarstan), Russian Federation), Rustem Khamitov

Gender-specific differences in COPD symptoms and their impact for the diagnosis of cardiac comorbidities
Franziska Trudzinski (Heiderberg, Germany), Christina Kellerer, Rudolf Jöres, Peter Alter, Johanna Lutter, Frederik Trinkmann, Felix Herth, Marion Frankenberger, Hendrik Watz, Claus Vogelmeier, Hans-Ulrich Kauzcor, Tobias Welte, Jürgen Behr, Robert Bals, Kathrin Kahnert

Admission due to heart failure and pulmonary function testing: is there a COPD?
Kostiantyn Dmytriev (Vinnitsa, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Lesya Rasputina

Clinical and inflammatory characteristics of never-, intermittent- and persistent-COPD exacerbators
Jens Ellingsen (Uppsala, Sweden), Christer Janson, Björn Ställberg, Karin Lisspers, Kristina Bröms, Marieann Högman, Hans Hedenström, Andrei Malinovschi

Is there a role of Heart Failure in pulmonary function testing?
Kostiantyn Dmytriev (Vinnitsa, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Lesya Rasputina

Clinical COPD Questionnaire results depending on the degree of the inflammatory response in patients with COPD combined with hypertension
Anastasiia Melenevych (Kharkiv, Ukraine)

Prevalence of Anxiety Disorders and Depression in Patients with Chronic Obstructive Pulmonary Disease and correlation with the clinical stage of the disease
Slagjana Stoshikj (Wien, Austria), Jonas Brugger, Marco Idzko, Daniela Gompelmann

The prevalence of primary ciliary dyskinesia (PCD) in adult patients with bronchiectasis in Dnipro (Ukraine)
Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeriia Dmytrychenko

The international primary ciliary dyskinesia (PCD) registry reports genotype/phenotype-correlations
Johanna Raidt (Münster, Germany), Petra Pennekamp, Sarah Riepenhausen, Henrike Krenz, Simone Helms, Tabea Nöthe-Mench, Bernd Dworniczak, Heike Olbrich, Niki T Loges, Jörg Große-Onnebrink, Mathias G Holgersen, June K Marthin, Kim G Nielsen, Martin Dugas, Heymut Omran

A cross-sectional analysis of the burden of respiratory disease and engagement with the respiratory outpatient service amongst hospitalised patients referred to the social inclusion team
Sandra Green (Dublin, Ireland), Eoin Hunt, Sarah Jayne Miggins, Tara Mc Ginty
Pre-congress content

Session 257  13:15 - 14:15

E-poster: Prognostic markers of disease progression in non-idiopathic pulmonary fibrosis

**Sub-glottic Stenosis: An orphan tracheopathy – a great asthma mimic!**

Sana Iftikhar (Stoke-on-trent, United Kingdom), Aka Abi Musa Asa’Ari, Qaiser Abdullah, Mostafa Abdelmoteleb, Shilajit Ghosh, Mohammed Haris, Qaiser Abdullah

**Metabolic Syndrome (MetS) as a comorbidity of Chronic Obstructive Pulmonary Disease (COPD)**

Daniela Bukloska Ilievska (Skopje, North Macedonia), Jordan Minov, Ivana Mickovski, Nade Kochovska Kamchevska

**Domiciliary monitoring of physiology and symptoms to detect interstitial lung disease exacerbations and/or progression: a systematic review**

Malik A Althobiani (London, United Kingdom), Rebecca A Evans, Jaber S Alqahtani, Abdulaleh M Aldhahir, John R Hurst, Joanna Porter

**Morbidity and mortality following surgical lung biopsy in interstitial lung disease in a specialized multidisciplinary center.**

Vanessa Menezes (Montreal, Canada), Clare Pollock, Adéline Jouquan, Julie Morisset, Charles Leduc, Phillip Romeo, Hélène Manganas, Andréanne Gauthier, Pasquale Ferraro, Edwin Lafontaine, Jocelyne Martin, Basil Nasir, Moishe Liberman

**SADL scale as a predictor of mortality in patients with ILD associated with Scleroderma**

VIRGINIA Parra León (MADRID, Spain), Walther Ivan Girón Matute, Fernando Pedraza Serrano, Belén Serrano Benavente, Christian Reynaldo Castro Riera, Luis Puente Maestú

**Clinical course and outcomes of acute exacerbation of fibrosing interstitial lung disease**

Katsuyuki Furuta (Wakayama City, Japan), Daichi Fujimoto, Atsushi Matsunashi, Masanori Tanaka, Ryota Shibaki, Yuri Shimada, Kazuma Nagata, Keisuke Tomit, Nobuyuki Yamamoto

**Role of lung biopsies in the diagnosis of interstitial lung diseases in a clinical real-life setting**

Melanie Berger (Köln, Germany), Maximilian Wollsching-Strobel, Elisabeth Bünemann, Sarah Bettina Schwarz, Daniel Sebastian Majorski, Tim Mathes, Wolfram Windisch

**Progressive fibrosing interstitial lung disease (PF-ILD) in six referral centers in Brazil**


**Analyses of predictive findings indicative of progressive interstitial lung diseases**


**Progressive fibrosis is common in patients with Sjögren’s syndrome and Interstitial lung disease**

Caroline Diou (Paris, France), Marie-Pierre Debray, Catherine Bancel, Karim Sacré, Camille Taillé, Warda Khamis, Robin Dhote, Raphaël Borie, Hilario Nunes, Yurdagül Uzunhan, Bruno Crestani

**Prognostic value of 6-Min Walk Test (6MWT) in Patients with non-Idiopathic Pulmonary Fibrosis Progressive Fibrosing Interstitial Lung Disease (PF-ILD)**

Gregoire Jeanniard (Boulogne-Billancourt, France), Mouhamad Nasser, Ségolène Turquier, Kais Ahmad, Jésus Calabuig Lopez, Jean-Charles Glérant, Julie Traclat, Arnaud Chambellan, Vincent Cottin

**Progressive fibrosis is common in patients with Sjögren’s syndrome and Interstitial lung disease**

Caroline Diou (Paris, France), Marie-Pierre Debray, Catherine Bancel, Karim Sacré, Camille Taillé, Warda Khamis, Robin Dhote, Raphaël Borie, Hilario Nunes, Yurdagül Uzunhan, Bruno Crestani
Clinical features and outcomes of patients with myositis-associated interstitial lung disease
Ourania Papaioannou (Patras, Greece), Theodoros Karampitsakos, Serafeim Chrysikos, Matthaios Katsaras, Georgios Tsirikos, Panagiota Tsiri, Eirini Zakardi, Panagiotis Efthymiou, Vasilina Sotiropoulou, Nikolaos Ntoulias, Elli Malakoundiou, Aggeliki Bellou, Vasiliou Tsizas, Evangelos Bouros, Fotios Sampsonas, Theofanis Karageorgas, Katerina Dimakou, Demosthenes Bouros, Argyris Tzouvelekis

Evaluation of CCL18 serum levels and genetic variant as prognostic biomarkers in SSC-ILD
Carmel Stock (London, United Kingdom), Carmel Stock, Maria Kokosi, Veronica Alfieri, Vasiliou Tsizas, Peter George, Philip Molyneaux, Felix Chua, Benjamin Seeliger, Voorn Ong, David Abraham, Torsten Witte, Christopher Denton, Antje Prasse, Athol Wells, Elisabetta Renzi

Clinical spectrum and outcome of non-IPF patients with a typical UIP picture
Jennifer Naftel (Southampton, United Kingdom), Mark Mottershaw, Kellie Strickland,Adam Wallis, Paula Mcparland, Anna Donaldson, Suress Babu

Mortality risk prediction with ILD-GAP index in a Portuguese chronic hypersensitivity pneumonitis cohort
Ana Catarina Gouveia Cardoso (Vila Nova de Famalicão, Portugal), Leonor Mendonça Almeida, Ana Luisa Fernandes, Bruno Lima, Inês Neves, Helder Novais Bastos, Patricia Caetano Mota, Natália Melo, Conceiçao Souto Moura, Susana Guimarães, André Carvalho, Rui Cunha, José Miguel Pereira, António Morais

Predictive Findings of survival in Familiar Pulmonary fibrosis
Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Regina Celia Carlos Tibana, Maria Raquel Soares, Deborah Dos Reis Estrella, Carlos Pereira

Connective tissue associated lung disease treated with Cyclophosphamide in Durban, South Africa.
Mohammed Mitha (Durban (Kwa Zulu-Natal), South Africa), Swasti Singh, Catherine Connolly, Kennedy Nyamande

Longitudinal serological assessment of neutrophil activity is related to disease progression in idiopathic pulmonary fibrosis
Henrik Jessen (Herlev, Denmark), Nils Hoyer, Thomas Prior, Peder Frederiksen, Morten Karsdal, Diana Leeming, Elisabeth Bendstrup, Jannie Sand, Saher Shakar

Predictive Findings of Progressive Fibrosing Interstitial Lung Disease (PF-ILD)

Late Breaking Abstract - The outcome of COVID-19 in interstitial lung disease patients treated with anti-inflammatory drugs and antiviral drugs
Takafumi Yamaya (Yokohama city, Japan), Eri Hagiwara, Tomohisa Baba, Tae Iwasawa, Takashi Ogura

Late Breaking Abstract - Systemic ferritin is an early disease biomarker for silicosis patients
Christian Aloë (Bundooora, Australia), Paris Papagianis, Jonathan Mcqualter, Christine Faye Mcdonald, Tracy Li-Tsein Leong, Nicole Soo Leng Goh, Steven Bozinovski

Late Breaking Abstract - Role of shear stress and oxygen toxicity on central nervous system comorbidities in bronchopulmonary dysplasia
Lena Haist (Munich, Germany), Sophia Stöcklein, Juan David Hena Sanchez, Benjamine Schubert, Anne Hilgendoff

Pre-congress content Session 258 13:15 - 14:15
E-poster: Insights into rehabilitation and physiotherapy in COVID-19

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Respiratory critical care
Method(s): Pulmonary rehabilitation, Public health, General respiratory patient care, Respiratory intensive care, Pulmonary function testing
Tag(s): COVID, Digital health

Chairs: Inga Jarosch (Schönau am Königssee, Germany), Jana De Brandt (Diepenbeek, Belgium)
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2257</td>
<td>PRONE POSITION IN COVID-19 PATIENTS INVASIVE MECHANICAL VENTILATED</td>
<td>Rafaela Xavier, Jaci Oliveira, Naiara Rodrigues, Thaís Vieira, Midia Coutinho, Regiane Mota, Andrietti Turi, Cristiane Schmitt, Amilton Silva Jr, Carina Nunes, Andrea Sala</td>
</tr>
<tr>
<td>PA2258</td>
<td>COVID-19 and acute respiratory failure treated with CPAP</td>
<td>Linette Marie Kofod, Klaus Nielsen Jeschke, Morten Tange Kristensen, Rikke Krogh-Madsen, Carsten Monefeldt Albek, Ejvind Frausing Hansen</td>
</tr>
<tr>
<td>PA2259</td>
<td>COVID-19 knowledge, practice and barriers to early mobilization: a Brazilian survey</td>
<td>Renata Mendes, Thaís Marina Pires de Campos Biazon, Henrique Pott Junior, Michel Silva Reis, Daniela Gardano Bucharles Mont’Alverne, Daniel Lago Borges, Guilherme Peixoto Tinoco Arêas, Audrey Borghi-Silva</td>
</tr>
<tr>
<td>PA2260</td>
<td>Impact of outpatient rehabilitation programme on physical fitness for patients post covid-19</td>
<td>Thomas Williamson, Angela Miers, Daisy Garvey, Carol Morris, Fran Dyer, Claire Wells, Shakil Rahman</td>
</tr>
<tr>
<td>PA2261</td>
<td>Delivering an 8-week in-home telerehabilitation exercise program in patients with COVID-19 during the first pandemic in Greece</td>
<td>Eleni Kortianou, Dimitrios Tsimouris, Aspasia Pavronasou, Sotirios Lekkas, Nikolaos Kazantzis, Maria Isakoglou, Georgia Dinakou, Zafeiria Barmapasou, Stamatoula Tsikrika, Vissaria Sakka, Angelos Liontos, Marianna Christaki, Charalampos Milionis, Ioannis Kalomenidis</td>
</tr>
<tr>
<td>PA2262</td>
<td>Benefits of pulmonary rehabilitation in COVID-19 – a prospective observational cohort study</td>
<td>Rainer Gloeckl, Paola Carmona Arias, Sally Santistevi Loster, Anna Moncusi Moix, David De Gonzalo Calvo, Clara Got Panniello, Gerard Torres Cortada, Esther Gracia Lavedan, Ferran Barbé Illa, Jessica González Gutiérrez</td>
</tr>
<tr>
<td>PA2263</td>
<td>Impact of pulmonary rehabilitation on sequelae produced critically in patients by COVID-19.</td>
<td>Aida Monge Esqué, Paola Carmona Arias, Sally Santistevi Loster, Anna Moncusi Moix, David De Gonzalo Calvo, Clara Got Panniello, Gerard Torres Cortada, Esther Gracia Lavedan, Ferran Barbé Illa, Jessica González Gutiérrez</td>
</tr>
<tr>
<td>PA2264</td>
<td>Is Pulmonary Rehabilitation (PR) effective in people recovering from severe COVID-19 (C-19) pneumonia?</td>
<td>Francesca Knight, Laura Cornish, Xu Shen, Catherine Thomas</td>
</tr>
<tr>
<td>PA2265</td>
<td>Does virtual breathing pattern retraining improve breathlessness in patients with post COVID syndrome?</td>
<td>Lauren Williamson, Gita Ramdharry, Olivia Chapman, Melissa Heightman, Toby Hillman, Rebecca Livingston</td>
</tr>
<tr>
<td>PA2266</td>
<td>Monitoring physical and psychological status in home-quarantined patients with COVID-19 after hospitalization</td>
<td>Eleni Kortianou, Dimitrios Tsimouris, Aspasia Pavronasou, Sotirios Lekkas, Nikolaos Kazantzis, Zoe Eleni Apostolara, Sotirios Lekkas, Maria Isakoglou, Stamatoula Tsikrika, Angelos Liontos, Marianna Christaki, Charalampos Milionis, Ioannis Kalomenidis</td>
</tr>
<tr>
<td>PA2267</td>
<td>Might a short-term telerehabilitation program improve effort tolerance, dyspnea, and effort desaturation in patients discharged after COVID-19 pneumonia?</td>
<td>Mara Panerani, Michele Vitacca, Palmira Bernardocchi, Laura Bertacchini, Simonetta Scalvini</td>
</tr>
<tr>
<td>PA2268</td>
<td>Comparison of muscle strength, physical activity, mood and sleep quality in patients with recovered from mild and moderate COVID-19</td>
<td>Aylin Tanriverdi, Sema Savci, Buse Ozcan Kahraman, Ebru Ozpelit</td>
</tr>
<tr>
<td>PA2269</td>
<td>Might a short-term telerehabilitation program improve effort tolerance, dyspnea, and effort desaturation in patients discharged after COVID-19 pneumonia?</td>
<td>Mara Panerani, Michele Vitacca, Palmira Bernardocchi, Laura Bertacchini, Simonetta Scalvini</td>
</tr>
<tr>
<td>PA2270</td>
<td>Physical impairments following an inpatient stay for Covid-19 infection</td>
<td>Joanne Dowds, Kate O’Brien, Grainne Sheill, Liam Townsend, Parthiban Nadarajan, Ciaran Bannan, Ignacio Martin Loeches</td>
</tr>
<tr>
<td>PA2271</td>
<td>Wearables to monitoring the activities daily living in patients post-hospitalization by COVID-19</td>
<td>Maria Cecilia Moraes Frede, Thomas Beltrame, Daiane Roberta Viana, Marcela Maria Carvalho Da Silva, Mariana De Oliveira Gois, Carina Araujo De Faccio, Luana Aprecida Gonzalez, Juliano Ferreira Arcuri, Valeria Amorim Pires, Di Lorenzo, Aparecida Maria Catal</td>
</tr>
</tbody>
</table>
Pre-congress content  Session 259  13:15 - 14:15

E-poster: Epidemiological aspects of tuberculosis

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Respiratory critical care

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

Chairs: Berit Lange (Freiburg, Germany), Lorenzo Guglielmetti (Paris, France)

| PA2274 | Relationship between active TB case finding and treatment outcomes | Larisa Rusakova (Moscow, Russian Federation), Vladimir Galkin, Sergey Sterlikov |
| PA2275 | Prevalence of latent and active tuberculosis among elderly home residents in a single district of Sri Lanka - A cross sectional study | Asela Bandara (Kurunegala (NW), Sri Lanka) |
| PA2276 | Tuberculosis among health-care workers | Evgeny Belilovskiy (Moscow, Russian Federation), Elena Bogorodskaya, Alexandr Markov |
| PA2277 | Pott’s disease: clinical, radiological profile and therapeutic support | Hajar Bamha (casablanca, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam El Khattabi, Moulay Hicham Afif |
| PA2278 | Transthyretin in patients with pulmonary tuberculosis co-infected HIV. | Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Lev Gerasimov |
| PA2279 | Predictive factors of extended drainage in tuberculous pneumothorax | Seiv Marwa (Tunis, Tunisia), Ben Saad Soumeya, Ben Mansour Amani, Gharbi Leila, Fennich Soraya, Aouina Hichem, Merghli Adel, Hamzaoui Agnes, Chaoouach Nawel, Daghiouf Hafaoua, Tritar Fatma |
| PA2280 | Risk factors for tuberculosis in patients with chronic alcoholism | Evelina Lesnic (Chisinau, Republic of Moldova), Andrei Ungurean, Tatiana Osipov, Eugeniu Cotelea |
| PA2281 | Comparative study of clinical features between elderly and non-elderly patients with pulmonary nontuberculous mycobacterial disease | Yoshihiro Kobashi (Kurashiki (Okayama), Japan), Daisuke Yoshioka, Shigeki Kato, Toru Oga |
| PA2282 | Nutritional deficiency in patients with pulmonary tuberculosis | Anna Egorova (Moscow, Russian Federation), Mikhail Chushkin, Veronika Beketova, Lydia Popova, Vladimir Romanov, Natalya Karpina, Atadzhan Ergeshov |
| PA2284 | Particularities of people who inject drugs in a HIV-TB cohort | Ana-Maria Zaharie (Bucuresti (Sector 2), Romania), Mirela Ţigău |
| PA2285 | Current approaches to the prevention of tuberculosis in patients receiving immunosuppressants | Elena Dementyeva (Moscow, Russian Federation), Valentina Aksenova, Alexey Kazakov, Nadezhda Klevno |
| PA2286 | Latent tuberculosis infection in adolescents aged 15-17 | Diana Vrabij (Saint-Petersburg, Russian Federation), Vladimir Dantsev, Igor Bozhkov, Goar Balasaniante |
| PA2287 | "99DOTS" techno-supervision for tuberculosis treatment – a boon or a bane? Exploring challenges in its implementation at a tertiary centre in Delhi, India | Ananya Prabhu (New Delhi (Delhi), India), Upasana Agarwal, Neeta Singla, Rohit Sarin, Jaya Prasad Tripathy, Karuna Sagili, Puthu Thekkur |
| PA2288 | The effect of tobacco smoking on bronchial patency in patients with pulmonary tuberculosis | Marina Peredelskaya (Moscow, Russian Federation), Atadzan Ergeshov, Galina Sakharova, Nicalay Antonov, Ludmila Rusakova, Vladimir Romanov, Nicolay Bukhovatov |
| PA2289 | PREDICTOR FACTORS TO POOR ADHERENCE TO ANTI-TUBERCULOSIS TREATMENT | Hager Kchouk (Tunis, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Hafaoua Daghiouf, Fatma Tritar |
| PA2290 | Screening and monitoring of TB infection in rheumatological patients on biologics therapy | Sergey Evgenievich Borisov (Moscow, Russian Federation), Natalia Makarova, Lydia Guntupova, Ksenia Frolova, Galina Lukina |
Pre-congress content  
**Session 260  13:15 - 14:15**

**E-poster: Therapy of lung cancer**

**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s)**: Thoracic oncology  Respiratory critical care  Airway diseases

**Method(s)**: General respiratory patient care  Pulmonary function testing  Cell and molecular biology  Public health  Pulmonary rehabilitation  Epidemiology  Surgery  Endoscopy and interventional pulmonology  Palliative care  Imaging

**Chairs**: Armin Frille (Leipzig, Germany), Susanne Lang (Jena, Germany)

**PA2293**
**Clinical outcomes of stereotactic ablative body radiotherapy (SABR) in medically inoperable early stage lung cancer patients**
Thida Win (Stevenage (Hertfordshire), United Kingdom), Jonathan Groves, Ryan Yeo, Yat Tsang, Nihal Shah

**PA2294**
**Upper limbs musculoskeletal disorders after one-year lung cancer resection**
Alejandro Heredia Ciuró (Granada, Spain), Paula Blasco-Valls, Janet Rodriguez-Torres, Florencio Quero-Valenzuela, Araceli Ortiz-Rubio, María-Carmen Valenza

**PA2295**
**Salvage surgery in patients with locally advanced non-small cell lung cancer – outcomes and longtime results**
Katarzyna Furrer (Zürich, Switzerland), Raphael S Werner*, Sven Hillinger, Didier Schneider, Ilhan Inci, Isabelle Opitz

**PA2296**
**Safety and efficacy of thermal ablation for malignant lung lesions; retrospective case series analysis of the South Wales lung ablation service.**
Gill Warwick (Carmarthen (Dyfed), United Kingdom), Emma Parkes, Nimit Goyal, Alina A Ionescu

**PA2297**
**EXPERIENCE WITH RADIOFREQUENCY ABLATION OF LUNG TUMORS**
José María Díaz García (Madrid, Spain), Miguel Morales García, María Teresa Río Ramírez, Fernando García Prieto, Cristina Matesanz López, Beatriz Raboso Moreno, Adriana Rodríguez, Carmen María Acosta Gutiérrez, Araceli Abad Fernandez

**PA2298**
**Surgery of remnant lung after contralateral pneumonectomy is safe**
Katarzyna Furrer (Zürich, Switzerland), Emil Iliev, Walter Weder, Sven Hillinger, Didier Schneider, Ilhan Inci, Isabelle Opitz

**PA2299**
**Low dose olanzapine for carboplatin-induced nausea and vomiting**
Chizuru Sakai (Gifu, Japan), Hirotoshi Iihara, Mototsugu Shimokawa, Yukiyoshi Fujita, Shinnosuke Ikemura, Chiemi Hirose, Mie Kotake, Norihiko Funaguchi, Takenobu Gomyo, Hisao Imai, Jun Hakamata, Daise Kaito, Koichi Minato, Takahiro Arai, Hitoshi Kawazoe, Akio Suzuki, Yasushi Ohno, Hiroyuki Okura

**PA2300**
**Genetic polymorphisms in the BER and NER pathways and their influence on survival and toxicity in never-smokers with lung cancer**
Ana Casal (vigo, Spain), María Torres, Isaura Parente, Antonio Golpe, Carmen Montero, Virginia Leiro, Olalla Castro, Alberto Fernández, Luis Valdés, Alberto Ruano

**PA2301**
**A prospective study to detect ICIs’ associated Myocarditis, among patients treated for lung cancer**
Clara Faubry (Saint André, France), Maxime Faure, Remi Veillon, Charlotte Vergnenègre, Hubert Cochet, Chantal Raherison, Pierre Domingues Dos Santos, Zysman Maeva

**PA2302**
**Impact of COPD on prognosis of lung cancer: the prospective of immunotherapy treatment**
Ricardo Estêvão Gomes (Lisboa, Portugal), Teresa Almodôvar

**PA2303**
**Influenza and Pneumococcal vaccination effects on the immune-related adverse events in patients under immunotherapy for an advanced stage non-small cell lung cancer**
Mathilde MONBRUN (Bordeaux, France), Léo Grassion, Elodie Blanchard, Rémi Veillon, Maeva Zysman, Chantal Raherison

**PA2304**
**Atezolizumab in previously treated non-small-cell lung cancer patients**
Mariana Serino (Braga, Portugal), Vanessa Santos, David Araújo, Hélder Novais-Bastos, Adriana Magalhães, Gabriela Fernandes, Henrique Queiroga, Venceslau Hespanhol
**PA2305**

**Immune-related adverse events as a predictor marker of response to programmed cell death 1/programmed death-ligand 1 axis inhibitors in patients with non-small cell lung cancer.**

Andriani Charpidou (Athens, Greece), Vasilios Patriarcheas, Ioannis Vathiotis, Eleni Kokotou, Nikos Syrigos, Maria Mani, Lamprini Stournara, Ioannis Gkiozos

**PA2306**

**Progression-free survival with first line treatment as prognostic factor of treatment success in subsequent lines in lung adenocarcinoma patients – who’s the „good responder“?**

Kristian Brat (Brno, Czech Republic), Jana Skrickova, Monika Bratova, Magda Barinova, Karolina Hurdalkova, Milos Pesek, Martin Svaton, Libor Havel, Leona Koubkova, Michal Hrncaiark, Jana Krejci, Juraj Kultan, Ondrej Fischer, Milada Zemanova, Marketa Cernovska, Martin Safanda, Helena Coupkova, Tana Tuzova, Daniel Dolezal

**PA2307**

**An implantable rutin incorporated PCL/collagen electrospun nanofibers for effective growth inhibition of lung cancer cells: Possible application in prevention of lung cancer local recurrence**

Shadi Doosti (, Turkey), Selman celik, Muhammed Ali Karimi

**PA2308**

**Patient-reported outcome measures: do they improve the quality of supportive care in advanced non-small cell lung cancer?**

Andriani Charpidou (Athens, Greece), Maria Kalliri, Vasilios Ramfdis, Dimitra Grapsa, Ioannis Gkiozos, Dimitra Stefanou, Konstantinos Syrigos

**PA2309**

**Does long treatment delay affect survival in metastatic non-small cell lung cancer**

Mariem Hamdi (kasserine, Tunisia), Fatma Chermiti, Belloumi Nidhal, Bachouche Imen, Fenniche Soraya

**PA2310**

**Prognostic value of neutrophil to lymphocyte ratio in patients with advanced non-small cell lung cancer**

Andriani Charpidou (Athens, Greece), Sofia Koukidou, Dimitrios Vassos, Dimitra Grapsa, Sevasti Ampelioti, Ekaterini Dimakou, Petros Bakakos, Garyphallia Poulakou, Konstantinos Syrigos

**PA2311**

**Thromboprophylaxis in lung cancer patients with intermediate tinzaparin dose: The iCaLT study**

Marousa Kouvela (Athens, Greece), Dimitra Stefanou, Lamprini Stournara, Eleftheria Ntalakou, Fotini Sarropoulou, Nikolaos Syrigos, Ioannis Gkiozos

**PA2312**

**Survival outcomes of patients diagnosed with lung adenocarcinoma with ALK gene rearrangement**

Lela Bitar (Zagreb, Croatia), Fran Seiwerth, Lidija Ljubičić, Ana Bačelić-Gabelica, Dražena Srđić, Marta Koršić, Sonja Badovinac, Sanja Plština, Miroslav Samaržija, Marko Jakopović

**Pre-congress content**

**Session 261**

**E-poster: Environmental and lifestyle impacts on chronic lung disease**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases, Interstitial lung diseases

**Method(s):** Cell and molecular biology, Physiology, Pulmonary rehabilitation, Pulmonary function testing, Respiratory intensive care

**Tag(s):** COVID

**Chairs:** Gwenda Vasse (Groningen, Netherlands), Tania Maes (Ghent, Belgium)

**PA2313**

**In vitro toxicological effects of particulate matter from Metropolitan Region of Vitoria, Brazil**

Trícia Guerra Oliveira (Vitória, Brazil), Isabelle Araújo Trancoso, Maria Tereza Weitzel Dias Carneiro, Melina Do Espírito Santo Lemos, Bianca Prandi Campagnaro, Denise Coutinho Endringer, Larissa Zambom Côco, Antônio Domingos, Márcio Fronza

**PA2314**

**Pulmonary fibrosis in mice increases susceptibility to pneumococcal pneumonia and bacteremia**

Christoph Tabeling (Berlin, Germany), Sandra-Maria Wienhold, Anna Binrhuber, Markus C. Brack, Geraldine Nouailles, Olivia Kershaw, Theresa C. Firsching, Achim D. Gruber, Jasmin Lienau, Leigh M. Marsh, Andrea Olschewski, Grazyna Kwapiszewska, Martin Witzenthurn

**PA2315**

**Validation of in vitro models for smoke exposure of primary human bronchial epithelial cells**

Michal Mastalerz (Germering, Germany), Elisabeth Dick, Ashesh Chakraborty, Elisabeth Hennen, Andrea Schamberger, Michael Lindner, Rudolf Hatz, Juergen Behr, Anne Hilgendorff, Omar Schmid, Claudia Staab-Wejnitz

**PA2316**

**Human rhinovirus induce specific bronchial smooth muscle migration toward bronchial epithelium in severe asthma through the CXCL10/CXCR3 axis**

Alexis Celle (Bordeaux, France), Pauline Esteves, Guillaume Cardouat, Fabien Beaufils, Edmée Eyraud, Isabelle Dupin, Elise Maurat, Olga Ousova, Hugues Begueret, Matthieu Thumerel, Roger Marthan, Pierre-Olivier Girodet, Patrick Berger, Thomas Trian
PA2317 Vasoactive intestinal peptide (VIP) suppresses ACE2- and TMPRSS2 expression in stimulated epithelial cells
Charlotte Gutzler (Freiburg, Germany), Kerstin Höhne, Joachim Müller-Quernheim, Gernot Zissel, Björn Christian Frye

PA2318 Myeloid-derived suppressor cells in the blood of COVID-19 patients
Ian M. Adcock (London, United Kingdom), Esmaiel Mortaz, Neda K. Dezfuli, Neda Dalil Roofchayee

PA2319 Human rhinovirus causes increase in angiogenetic activity of lung endothelial cells – potential involvement in enhanced vasculature in asthematics
Aleksandra Likonska, Adrian Gajewski, Mateusz Gawrysiak, Izabela Gulbas, Robert Szewczyk, Kinga Klimeczak, Marek L. Kowalski, Maciej Chalubinski

PA2320 TRPA1 mediates cigarette smoke-induced TNFa secretion in macrophages
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Ivana Sugaylo, Dina Gassan, Olesya Kotova, Evgeniya Afanaseva, Elizaveta Sheludko, Yana Gorchakova

PA2321 Farm dust exposure decreases gene expression of epithelial alarmins in primary bronchial epithelial cells
Jasmijn A. Schrumpf (Leiden, Netherlands), Mikaela Tham, Dennis K. Ninaber, Erica Von Mutius, Hermelijn H. Smits, Pieter S. Hiemstra

PA2322 Effect of cigarette smoke extract on Th17 inflammation and the anti-inflammatory effect of glucocorticoids in human airway smooth muscle cells
Abdulrhman Alghamdi (Nottingham, United Kingdom), Abdullah Alqarni, Mushabbab Alahmari, Abdullah Alqarni, Amanda Tatler, Linhua Pang

PA2323 Immunity-6® Inhibits BEAS-2B and MRC-5 Cells Activation Induced by Sars-COV-2: Involvement with Purinergic Signaling
Yanesko F Bella (São José dos campos, Brazil), Carlos R Oliveira, Maysa A R Brandao-Rangel, Anamei Silva-Reis, Lucas S Zamarioli, Patricia Destefano, Edison L Durigon, Danielle B L Oliveira, Rodolfo P Vieira

PA2324 UPF1 and STAU1 modulate rhinovirus pathophysiology contributing to impaired antiviral immunity in asthma
Rocio Teresa Martinez-Nunez (London, United Kingdom), Adam Richardson, Nicole Ponde, Dustin Bagley, Elena Ortiz-Zapater, Jennifer Pyrane, Peter Howarth, Jody Rosenblatt, Michael Edwards

PA2325 Effect of cigarette smoke extract on inflammatory cytokine and chemokine production in human airway smooth muscle cells
Mushabbab Alahmari (NOTTINGHAM, United Kingdom), Abdulrhman Alghamdi, Abdullah Alqarni, Amanda Tatler, Linhua Pang

PA2326 Effect of cigarette smoke extract on IL-8 production and anti-inflammatory effect of corticosteroids in human airway smooth muscle cells
Mushabbab Alahmari (NOTTINGHAM, United Kingdom), Abdulrhman Alghamdi, Abdullah Alqarni, Amanda Tatler, Linhua Pang

PA2327 Monitoring spirometry-like parameters in mice with house dust mite-induced experimental asthma
Perla Abigail Alvarado-Vazquez (Uppsala, Sweden), Erika Mendez-Enriquez, Jenny Hallgren

PA2328 Aerobic Exercise Improves Asthma Phenotype in a Model of Severe Asthma: Involvement of Kinins
Maysa A. R. Brandao-Rangel (Sao Jose Dos Campos (SP), Brazil), Renilson Moraes-Ferreira, Anamei Silva-Reis, Victor Hugo Souza Palmeira, Francine Maria Almeida, Fabiana Regina Da Silva Olimpio, Flavio Aimbire, Lucas Santos Zamarioli, Carlos Rocha Oliveira, Nilsa Regina Damaceno-Rodrigues, Joao Bosco Pesquero, Rodolfo P Vieira

PA2329 The diagnostic value of leptin in progression of GOLD III COPD in patients with excessive body weight
Nadiya Korzh (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovskya, Galyna Korzh, Mariana Kulynych-Miskiv, Oleksandr Varunkiv, Iryna Savelikhina, Kostiantyn Shvets

PA2330 Dynamics of marker of inflammation - sICAM-1 in the process of treatment of COPD GOLD III destabilization phase in overweight patients.
Nadiya Korzh (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Galyna Korzh, Kseniia Ostrovskya, Mariana Kulynych-Miskiv, Oleksandr Varunkiv, Iryna Savelikhina, Kostiantyn Shvets

PA2331 Aerobic Exercise Effects in Severe Asthma: Involvement of Lung Fibroblast (MRC-5) Cells and Kinins Signaling
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Maysa A Rodrigues Brandao-Rangel, Renilson Moraes-Ferreira, Anamei Silva-Reis, Victor H S Palmeira, Francine M Almeida, Fabiana R S Olimpio, Lucas S Zamarioli, Carla Oliveira, Nilsa R Damaceno-Rodrigues, Joao B Pesquero, Flavio Aimbire

PA2332 The anti-inflammatory effects of helmint-derived peptides in a model of endotoxin-induced acute lung injury
Sinéad Ryan (Belfast, United Kingdom), Jenna Shiels, Clifford C Taggart, John P Dalton, Sinéad Weldon
Pre-congress content  Session 262  13:15 - 14:15

E-poster: Exercise tolerance, supportive care and more in non-pulmonary fibrosis interstitial lung diseases

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** General respiratory patient care  Epidemiology  Pulmonary rehabilitation  Pulmonary function testing  Imaging  Palliative care  Cell and molecular biology

**Chairs:** Yet Hong Khor (Melbourne (VIC), Australia), Fabrizio Luppi (Modena, Italy)

---

**PA2333**  The effect of heated humidified nasal high flow oxygen supply on exercise tolerance in patients with interstitial lung disease.
Yara Al Chikhanie (Dieulefit, France), Daniel Veale, Frédéric Hérengt, Samuel Verges

**PA2334**  The correlation between exercise capacity and pulmonary hypertension in different types of ILD in a tertiary care center in India.
Kaumudi Devi (Trivandrum, India), Mahavir Modi

**PA2335**  The role of incremental shuttle test after SARS-CoV2 infection
Diana Badenes Bonet (Barcelona, Spain), Diego Rodriguez Chiaradia, Anna Rodó Pin, Oswaldo Caguana Vélez, Cinta Cumpli Gargullo, Roberto Chalela Rengifo, Mineia Admetlló Papiol, Flavio Zuccarino, Dìdac Ramal Leiva, Eva Balcells Vilarnau

**PA2336**  Correlation of the Distance Saturation Product with spirometric and Diffusion Capacity for Carbon Monoxide data in patients with Interstitial Lung disease
Khouroud Kchaou (Sfax, Tunisia), Soumaya Khaldi, Asma Chaker, Salma Mokaddem, Saloua Jameleddine

**PA2337**  Impact of early referral to palliative care in patients with interstitial lung disease
Ana Rodrigo Troyano (Barcelona, Spain), Ana Alonso, Silvia Barril, Oscar Fariñas, Ernest Güell, Antonio Pascual, Diego Castillo

**PA2338**  Diaphragm ultrasound in patients with interstitial lung disease (ILD): a prospective study.
Federico Rea, Marina Saetta, Paolo Navalesi, Paolo Spagnolo, Elisabetta Balestro

**PA2339**  An international survey on genetics in clinical practice for interstitial lung disease.
Michelle Terwiel (Nieuwegein, Netherlands), Raphael Borie, Bruno Crestani, Liam Galvin, Francesco Bonella, Aurelie Fabre, Antoine Froideur, Matthias Griese, Jan Grutters, Kerri Johannson, Caroline Kannengiesser, Leticia Kawano, Maria Molina-Molina, Antje Prasse, Elisabeth Renzoni, Jasper Van Der Smagt, Venerino Poletti, Katerina Antoniou, Coline Van Moorsel

**PA2340**  Assessment of alveolar-capillary membrane permeability using Tc99m – DTPA aerosols in diffuse systemic sclerosis – a cross sectional study
Muniza Bai (PONDICHERRY, India), Dharm Prakash Dwivedi, G Vishnukanth, Nandini Pandit, K G Chengappa, A Subathra, R Sivaranjini

**PA2341**  Analysis of patients with interstitial lung disease associated to Systemic Sclerosis treated with cyclophosphamide.
Luiz Paulo Arreguy Nogueira (Belo Horizonte (MG), Brazil), Eliane Mancuzzo

**PA2342**  Associations between comorbidities and survival in patients with interstitial lung diseases
Tasnim Znegui (borj cerdia, Tunisia), Moussa Nadia, Nour Mahmoud, Kotti Amina, Kallel Nesrin, Gargouri Rahma, Bahloul Najla, Feki Walid, Msad Sameh, Yengui Ilhem, Ayedi Hajer, Ktata Wajdi, Kammoun Sami

**PA2343**  Prevalence and quantification of thoracic pain (TP) through quantitative sensory testing (QST) in patients with chronic interstitial lung disease (cILD)
Francesco Bonella (Düsseldorf, Germany), Manuela Scherer, Sandra Kampe, Gerhard Weinreich, Ulrich Costabel

**PA2344**  Interstitial lung disease associated with systemic lupus erythematosus : a monocentric study of 23 cases.
Iou deneuveille (paris, France), Iou deneuveille, Karim Sacre, Marie-Pierre Debray, Pascale Nicaise-Roland, Bruno Crestani, Raphael Borie

**PA2345**  Subclinical structural or functional lung changes is associated with higher risk of developing lower respiratory tract infection in a tertiary RA cohort.
Benjamin Worcester (Cheltenham, Australia), Dorothy Wang, Michelle Leech
Pre-congress content

Session 263 13:15 - 14:15

E-poster: Back to infection basics

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Cell and molecular biology, General respiratory patient care, Physiology, Respiratory intensive care, Pulmonary function testing, Imaging, Public health, Epidemiology

Tag(s): COVID

Chairs: Amelia Shoemark (Dundee (Angus), United Kingdom), Ricardo José (London, United Kingdom)

**PA2350**
The effects of fluticasone propionate in mice infected with Chlamydia pneumoniae
Dóra Paróczai (Deszk, Hungary), Anita Sejben, Dávid Kókai, Dezső Virok, Valéria Endrész, Katalin Burián

**PA2351**
Glycine efficacy for prevention or treatment on LPS-acute lung injury in mice
Bryan Shinji Haneda Goto (São Paulo (SP), Brazil), Renato Fraga Righetti, Tabata Maruyama Dos Santos, Leandro Do Nascimento Camargo, Beatriz Mangueira Saravia-Romanholo, Suellen Karoline Moreira Bezerra, Edna Aparecida Leiek, Carla Máximo Prado, Milton De Arruda Martins, Ruihen Siedlarczyk Nogueira, José Carlos Sá De Carvalho Neto, Daniel Alexandre De Souza, Bruno Ramos Salu, Maria Luiza Vielela Oliva, Iolanda De Fátima Lopes Calvo Tibério

**PA2352**
Baicalin inhibits biofilm formation, attenuates the quorum sensing-controlled virulence and enhances Pseudomonas aeruginosa clearance in vivo
Jinliang Kong (China), Jing Luo, Ke Wang, Huasong Lu, Shuangqi Cai, Liuhua Liu

**PA2353**
Variability of ß-lactamase resistance Pseudomonas aeruginosa genes infecting patients with cystic fibrosis
Atqah Abdul Wahab (Doha, Qatar), Emad Ibrahim, Ali A. Sultan, Jana Jass, Mazen A. Sid Ahmed

**PA2354**
Non-typeable Haemophilus influenzae biofilm formation on air-liquid interface cultured primary human airway epithelia
Katie L Horton (Southampton, United Kingdom), Raymond N Allan, Janice L Coles, Jana F Hueppe, David W Cleary, Claire L Jackson, Jane S Lucas

**PA2355**
Single-cell-sequencing in SARS-COV-2-infected hamsters sheds light on endothelial cell involvement in COVID-19
Geraldine Nouailles (Berlin, Germany), Emanuel Wyler, Peter Pennitz, Dylan Postmus, Daria Vladimirova, Julia Kazmierski, Fabian Pott, Kristina Dietert, Michael Muelleeder, Vadim Farztdinov, Benedikt Obermayer, Sandra-Maria Wienhold, Sandro Andreotti, Thomas Hoefler, Birgit Sawitzki, Christian Drosten, Leif E. Sander, Norbert Suttorp, Markus Ralser, Dieter Beule, Achim D. Gruber, Christine Goffinet, Markus Landthaler, Jakob Trimpert, Martin Witzenrath

**PA2356**
Decreased neutrophil phagocytosis and killing of bacteria in COVID-19 patients
Masoumeh Noman (Tehran, Islamic Republic of Iran), Mohammad Varahram, Mona Ghazi, Ian M. Adcock, Esmaeil Mortaz

**PA2357**
Cathelicidin as a marker of worsening of the course of lung infection
Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Olga Prihodko, Iraida Menshikova, Tatiana Talchenkova

**PA2358**
Inducible epithelial resistance modulates innate antiviral signaling against coronavirus and influenza
Jezreel Pantaleón García (San Nicolás de los Garza, Mexico), Liza Yusem-Cartens, Vikram Kulkarni, Shradha Wali, Michael Longmire, Yongxing Wang, Scott Evans
The role of efflux pump systems and OprD porine in antimicrobial resistance of Pseudomonas aeruginosa strains isolated from patients with bronchiectasis

Roberto Cabrera (Barcelona, Spain), Laia Fernández-Barat, Nil Vázquez, Victoria Alcaráz, Rubén López-Aladid, Leticia Bueno, Rosanel Amaro, Patricia Elena Ocanosa, Laura Muñoz, Jordi Vila, Antoni Torres

From cell cultures to autopsies: study on functionality across different experimental models in SARS-CoV-2 infection.

Macarena Arroyo Varela (Malaga, Spain), Belén Delgado-Martin, Esperanza Salcedo Lobera, Elena Espinosa García, Rafael Larrosa Jiménez, Rocío Bautista Moreno

Impact of SARS-CoV-2 heat inactivation on active protease biomarkers in sputum sol

Timothy Ferguson (Belfast (Belfast), United Kingdom), Ciaran Mcgranaghan, Philip Weir, Darragh Mccafferty, Kelly Moffitt

Ciliary videomicroscopy at room temperature might lack sensitivity for primary ciliary dyskinesia diagnosis

Noemie Bricmont (Florennes, Belgium), Romane Bonhiver, Lionel Benchimol, Maud Piroir, Catherine Moermans, Anne-Lise Poirier, Philippe Lefebvre, Renaud Louis, Marie-Christine Seghaye, Céline Kempeneers

Late Breaking Abstract - Immunomodulatory and clinical effects of RIPK1 inhibitor SAR443122 in patients with severe COVID-19

Pierre-Francois Clot (CHILLY-MAZARIN, France), Christine Farenc, Benjamin Suratt, Tillmann Krahne, Agnes Tardat, Peter Florian, Robert Pompono, Naimish Patel, Maria Wickowski, Yong Lin, Benjamin Terrier, Heribert Staudinger

Late Breaking Abstract - Analysis of volatile organic compounds in post-COVID-19 patients with eNose technology.

Timothy Ferguson (Belfast (Belfast), United Kingdom), Ciaran Mcgranaghan, Philip Weir, Darragh Mccafferty, Kelly Moffitt

Late Breaking Abstract - Impact of COVID-19 on patients with severe alpha1 antitrypsin deficiency: the IMCA1 study of the EARCO ERS Clinical Research Collaboration, preliminary findings.

David G. Parr (Coventry (West Midlands), United Kingdom), Christian Clarenbach, Joanna Chorostowska-Wynimko, Angelo Corsico, Ilaria Ferrarotti, Lourdes Lázaro-Asegurado, Jose Lopez-Campos, Adriana Rozy, Annelot Sark, Maria Sucena, Jan Stoik, Eva Tabernero Huguet, Hanan Tanash, Marc Miravitles

Late Breaking Abstract - A single centre observational study of inflammatory biomarkers in Covid 19 and clinically important outcomes

Indrajit Sau (Sutton Coldfield, United Kingdom), Ehsaan Qureshi, Dominic Richard Mears, Stanley Ejiofor

Recombinant Panton-Valentine leukocidin induced dysregulation of cytokines secretion of human alveolar macrophage is not mediated by necrotic effect.

Yunfeng Shi (GuangZhou, China), Xiaohan Shi, Yunfeng Shi, Wenxian Zhang, Jingjing Liang, Benquan Wu

Late Breaking Abstract - Capture efficiency of mechanically nebulised synthetic nanoparticles, liposomes, SARS-CoV-2 virus-like particles, and infectious pseudotyped virions is influenced by particle surface charge

John Henderson (Newcastle upon Tyne, United Kingdom), Ruediger Gross, Sterghios Moschos, Saqib Ali, Theodora Manto, Ed Wright, Janis Mueller, Jan Muench

Pre-congress content

Session 264  13:15 - 14:15

E-poster: Clinical evolution, management and outcomes of patients with rare diffuse parenchymal lung diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Interstitial lung diseases

Method(s): Pulmonary function testing  General respiratory patient care  Imaging  Public health  Physiology  Cell and molecular biology

Chairs: Clairelyne Dupin (Paris, France), Olga Torre (Milano (MI), Italy)

Lung fibrosis in Pulmonary Alveolar Proteinosis (PAP): different stages of a syndrome or distinct diseases?

Sara Lettieri (Pavia, Italy), Francesca Mariani, Cristina Infusino, Davide Piloni, Matteo Bosio, Annalisa De Silvestri, Alessandra Corino, Ilaria Campo

Familial Pulmonary Fibrosis: experience from a tertiary hospital

Josué Pinto (Porto, Portugal), Patricia Mota, Natália Melo, António Morais, Helder Novais E Bastos
Pre-congress content

Session 265  13:15 - 14:15

E-poster: Pathogenic progress in airway diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Sleep and breathing disorders  Interstitial lung diseases

Method(s): Cell and molecular biology  General respiratory patient care  Pulmonary function testing

Chairs: Sara Cuevas Ocaña (Nottingham, United Kingdom), Arnaud Mailleux (Paris, France)

Epithelial mesenchymal transition (EMT) related changes in small airways of smokers and patients with COPD

Wenyong Lu (Newnham, Australia), James Markos, Collin Chia, Josie Larby, Greg Haug, Ashutosh Hardikar, Gurpreet Singhera, Tillie Hackett, Mathew Eapen, Sukhwinder Sohal

The strategy for searching of potential ligands for TRPM8 based on use of Deep Neural Networks and Intermolecular Docking

Evgeniy A. Borodin (Blagoveshchensk, Russian Federation), Nalalya Yu. Leusova, Alexander P. Chupalov, Pavel D. Timkin, Eduard A. Timofeev, Victor P. Kolosov, Juliy M. Perelman

Gene expression and genetic variations of HSP70TLR2 and TLR4 in COPD

Iva Hlapčić (Zagreb, Croatia), Marija Grdić Rajković, Andrea Hulina-Tomašković, Sanja Popović-Grle, Margareta Radić Antolic, Lada Rumora
**Pre-congress content**

**Session 266**

**13:15 - 14:15**

E-poster: Inhaled treatments for COPD: real-world data
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases | Pulmonary vascular diseases

Method(s): General respiratory patient care | Pulmonary function testing | Epidemiology | Respiratory intensive care | Public health

Chairs: Danilo C Berton (Porto Alegre (RS), Brazil), David M. G. Halpin (Exeter, United Kingdom)

PA2402 A retrospective evaluation of lung function and exacerbations in COPD patients-RETRIEVE study.
Stavros Tryfon (Thessaloniki, Greece), Christos Babalis, Athanasios Skliris, Polyanthi Papanastasiou, Maria Bertoli

PA2403 Characteristics and treatment pathways of patients with COPD receiving a long-acting muscarinic antagonist/long-acting β2-agonist (LABA/LAMA) in the UK.
Gema Requena (Brentford, United Kingdom), Victoria Banks, Alexandrosz Czira, Robert Wood, Theo Tritton, Eunmi Ha, Rosie Wild, Chris Compton, Afisi Ismaila

PA2404 REALizing and improving management of COPD in China: A prospective observational study.
Ting Yang (Beijing, China), Ting Yang, Baiqiang Cai, Bin Cao, Jian Kang, Fuqiang Wen, Yahong Chen, Wenhua Jia, Cheng Wang, Hongyan Shang, Yue Fei

PA2405 Long Acting B-2 Agonists (LABA) or Anticholinergics (LAMA): Which one is more efficient in Group A COPD Patients?
Muzaffer Onur Turan (Izmir, Turkey), Nalan Ogan, Fuslen Bozkuş, Nurhan Sarıoğlu, Pakize Ayşe Turan, Celal Satıcı

PA2406 Comparison of initial drug treatment of incident COPD patients with German treatment guidelines.
Claus Vogelmeier (Marburg, Germany), Marlene Hechtner, Nils Picker, Angela Neitz, Patrick Hofmann, Ulf Maywald, Thomas Wilke, Roland Buhl

PA2407 No impact of statins on time to first COPD exacerbation or all-cause mortality.
Nina Skalvan Godtfredsen (Hellerup, Denmark), Mathias Weis Damkjær, Kjell Erik Julius Håkansson, Thomas Kalmose, Charlotte Suppli Ulrik

PA2408 Post Marketing Surveillance to evaluate the safety and effectiveness of Umeclidinium Bromide in Korean patients with COPD.
Hyun-Young Choi (Seoul, Republic of Korea), Soung-Jun Min

PA2409 Real-world treatment of incident COPD patients in Germany.
Roland Buhl (Mainz, Germany), Nils Picker, Marlene Hechtner, Anke Kondla, Patrick Hoffman, Ulf Maywald, Thomas Wilke, Claus F Vogelmeier

PA2410 Comparing pneumonia incidence in COPD patients treated with or without inhaled corticosteroid.
Chin Kook Rhee (Seoul, Republic of Korea), Youlim Kim, Yong Il Hwang, Kwang Ha Yoo, So Eun Lee, Kyung Yoon Jung, Yong Bum Park

PA2411 Characteristics and treatment pathways of patients with COPD receiving an inhaled corticosteroid/long-acting β2-agonist (ICS/LABA) in the UK.
Alexandrosz Czira (Brentford, United Kingdom), Victoria Banks, Gema Requena, Robert Wood, Theo Tritton, Eunmi Ha, Rosie Wild, Chris Compton, Afisi S. Ismaila

Raza ul mohsin (Aabenraa, Denmark), Pradeesh Sivapalan, Josef Eklöf, Mohamad Isam Saeed, Truls Sylvan Ingebrigtsen, Susanne Dam Poulsen, Zitta Barrella Harboe, Kasper Karmark Iversen, Jette Bangsborg, Jens Otto Jarløv, Jonas Bredtoft Boel Boel, Christian Østergaard Andersen, Henrik Pierre Calum, Ram Dessau, Jens-Ulrik Staehr Jensen

PA2413 Investigating the drivers for COPD treatment decisions.
António Jorge Correia Gouveia Ferreira (Coimbra, Portugal), Per Bakke, Heikki Ekeros, Stéphane Soulard, Monika Haaksm-Heerczegh, MONTSERRAT MESTRES-SIMON, Malena Aguila-Fuentes, Janwillem Koecks, Onno C.P Van Schayck, Nikolaos Tzanakis, Didier Cataldo

PA2414 Treatment patterns of patients with chronic obstructive pulmonary disease (COPD) in Ontario, Canada.
Erika Penz (Saskatoon, Canada), Karissa Johnston, Christina Qian, Mena Soliman, Stephen Noorduyn, Erika Penz

Pre-congress content  Session 267  13:15 - 14:15

E-poster: Mechanical ventilation and weaning
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

Tag(s): COVID

Chairs: Friederike Sophie Magnet (Köl, Germany), Martin Dres (Paris, France)

PA2415 Link between muscle function and physical function in critically ill patients
Shanita Chhiba (Cape Town, South Africa), Susan Hanekom, Alison Lupton-Smith

PA2416 Dysphagia in patients with severe COVID-19 post extubation: Experience from a UK tertiary cardiothoracic centre
Lydia Spurr (London, United Kingdom), Neresha Maistry, Sarah Stagnell, Debbie Field, Elaine Pneh, Anita Simonds

PA2417 Lung ultrasound assessment of focal and non-focal lung morphology in patients with ARDS – a post-hoc analysis
Mary Smit (Utrecht, Netherlands), Charalampos Pierrakos, Luigi Pisani, Frederique Paulus, Marcus Schultz, Jean-Michel Constantin, Davide Chiumello, Francesco Mojoli, Silvia Mongodi, Lieuwe Bos

PA2418 Pulmonary disease as a risk factor for transfusion-related acute lung injury in hospitalized patients: a nested case-control study in Japan
Akira Yokoyama (Bunkyo-ku, Tokyo, Japan), Yukiyo Sakamoto, Jo Taisuke, Hirokazu Urushiyama, Hiroyuki Tamiya, Goh Tanaka, Hideo Yasunaga, Takahide Nagase

PA2419 Evaluating awake prone positioning in acute hypoxemic respiratory failure through the Leaf patient monitoring system: a feasibility study
Miguel Teixeira (Palo Alto, United States of America), Bryant Shannon, Sussannah Empson, Fred Mihm

PA2420 Effects of tidal volume and PEEP on myocardial performance in ICU patients without ARDS
Anna Geke Algera (Amsterdam, Netherlands), Fabienne Simonis, Charalampos Pierrakos, Michela Botta, Claudio Zimatore, Luigi Pisani, Pieter Roel Tuinman, Lieuwe Bos, Wim Lagrand, Marcelo Gama De Abreu, Paolo Pelosi, Ary Serpa Neto, Marcus Schultz, Thomas Cherpanath, Frederique Paulus

PA2421 Decannulation and recovery from prolonged mechanical ventilation in a cohort of COVID19 patients
Fernando Gutierrez Pereyra (Barcelona (CT), Spain), Patricia Peñacoba, Carine Puy, Antonio Anón

PA2422 Validity of ROC index in prediction of risk of intubation in patients with COVID-19 pneumonia
Luci Suliman (Mansoura, Egypt), Taha Abdelgawad, Heba Wageh, Nesrine Farrage

PA2423 Nursing errors in ICU and their association with burnout, anxiety, insomnia and working environment: a cross-sectional study
Afroditi Boutou (Thessaloniki, Greece), Soultana Betsiou, Georgia Pitsiou, Milly Bitzani, Ioannis Kioumis

PA2424 Performance of different low-flow oxygen delivery systems.
William Poncin (Bruxelles, Belgium), Gregory Reychler, Christophe De Terwagne, Matthieu Marnette, Frédéric Duprez

PA2425 Ventilatory and sensory responses to continuous rapid bilateral magnetic stimulation
Kyle Boyle (Zurich, Switzerland), Philipp Eichenberger, Patrick Schön, Christina Spengler

PA2426 Vitamin D and parathyroid hormone in critically ill septic patients: a prospective study
Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, George Skyllas, Panagiotis Simitsis, Gerasimos Socrates Christodoulatos, Evangelia Kandri, Georgios Antonakos, Apostolos Armanagidis, Maria Dalamaga

PA2427 Benefits of physiologically variable ventilation over pressure-controlled ventilation: a randomized study in a model of pulmonary fibrosis
Andre dos Santos Rocha (Genève, Switzerland), Ferenc Peták, Walid Habre, Adam Balogh

PA2428 Indications and outcome of patients undergoing IMV in a Respiratory care unit
Balaji Dasiri (KOLKATA, India), Sumit Roy Tapadar, Arunabha Datta Chaudhuri

PA2429 Major bleeding and thromboembolic events in veno-venous ECMO-patients with isolated respiratory failure. A retrospective analysis
Christoph Fisser (Regensburg, Germany), Simon Baumgartner, Matthias Lubnow, Maximilian Malfértheiner, Alois Philipp, Maik Foltan, Dirk Lunz, Thomas Müller

PA2430 Dyspnea in pre-hospitalar and emergency medicine – a descriptive analysis
João Paulo Duarte dos Santos Oliveira Rodrigues (Oliveira do Hospital, Portugal), Mário Pinto, Rita Gerardo, João Cardoso
Pre-congress content

Session 268  13:15 - 14:15

E-poster: Health effects of tobacco and medical professionals

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Sleep and breathing disorders  Thoracic oncology

Method(s): Public health  Pulmonary function testing  Epidemiology  General respiratory patient care  Physiology

Tag(s): Digital health

Chairs: Sofia Belo Ravara (Covilhã, Portugal), Aslı Görek Dilektaşlı (Bursa, Turkey)

PA2431  Outcomes of COVID-19 Critical Care Patients in Indonesia Periphery
Stanley Bahry (Medan, Indonesia), Ferry Dwi Kurniawan, Teuku Zulfikar

PA2432  Rapid Validation of a Turbine–based Ventilator for Invasive and Non–invasive Ventilation - Tha Acute-19 Ventilator

PA2433  Predictors of weaning success in patients requiring prolonged invasive mechanical ventilation
Neeraj Shah (New Malden (Surrey), United Kingdom), Rebecca D'Cruz, Jit Tan, Neil Lodhia, Philip Marino, Hina Pattani, Ramsay Michelle, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Nicholas Hart, Patrick Murphy, Georgios Kaltikasas

PA2434  Outcomes of weaning from mechanical ventilation after spinal cord injury: a systematic review and meta-analysis
Anna Fleur Schreiber (Torino (TO), Italy), Jacopo Garlasco, Fernando Vieira, Yié Hui Lau, Dekel Stavi, Andrea Rigamonti, Karen Burns, Jeffrey Singh, Jan Friedrich, Laurent Brochard

PA2435  Impact of smoking on sleep macro– and microstructure
Minh Khoa Truong (Lausanne, Switzerland), Mathieu Berger, José Haba-Rubio, Francesca Siclari, Pedro Marques-Vidal, Raphael Heinzler

PA2436  Individual risks of developing chronic bronchitis and respiratory symptoms in smokers
Marina Peredelskaya (Moscow, Russian Federation), Galina Sakharova, Nicalay Antonov, Vladimir Starodubov, Oleg Salagay, Natalya Nenasheva

PA2437  Oxidative stress induced by secondhand smoking in patients with mixed anxious-depressive disorder.
Letitia Trofor (Iasi (Iasi), Romania), Mona Dobrin, Ioana Buculei, Oana-Elena Rohozneanu, Radu Crisan-Dabija, Antigona Trofor

PA2438  Approaches to TB prediction in patients with COPD
Anna Mordyk (Omsk, Russian Federation), Natalia Bagisheva, Marina Moiseeva

PA2439  Pediatricians’ awareness of tobacco smoking in children and attitude towards interventions
Hasan Yuksel (Manisa, Turkey), Adem Yasar, Ozge Yilmaz

PA2440  Severity of obstruction in patients with COPD in a lifecourse approach
Kelly Cristina Chastekishi Verrone (Sorocaba (SP), Brazil), Cibele Isaac Saad Rodrigues, Etienne Duim

PA2441  Comparison of serum and urine cotinine level according to stage exhaled CO in smokers
Kristo Kurniawan (Malang, Indonesia), Triwhiju Astuti, Teguh Rahayu Sartono

PA2442  Smoking and BMI in COPD and non-COPD patients
Spencer Keene (Maastricht, Netherlands), Annmariek Driessen, Rachel Jordan, Alice Sitch, Peymane Adab, Frits Franssen, Frank De Vries

PA2443  Association between smoking and hypertension control: descriptive and analytical study.
Verónica Torres Esteche (Montevideo, Uruguay), Paola Sposito, Carolina Acosta, Maximiliano Pereda, Enrique Soto

PA2444  Impact of Cardiovascular Disease on dyspnea and lung function in a population of Tunisian smokers without airflow limitation
Khouloud Kchaou (Sfax, Tunisia), Ahmed Ben Ayed, Asma Chaker, Soumaya Khalidi, Saloua Mokaddem, Saloua Jameleddine

PA2445  University Students’ Knowledge and Attitudes About Electronic Cigarettes
Aslı Görek Dilektaslı (Bursa, Turkey), Ozge Aydin Guclu, Esra Uzaslan, Mehmet Karadag
Compare of prevalence of nicotine usage among medical students from Ukraine and India
Anna V Demchuk (Vinnytsia, Ukraine), Yuriy M Mostovoy, Vitalii L Poberezhets, Viktoria O Davydova, Tibary Anchumani

What are the main determinants of smoking in African/Middle East college students?
Sofia Belo Ravara (Covilhã, Portugal), Bukhari Abubakar Adam, Edibe Pirinçci

Electronic cigarette use and perceptions amongst UK medical students: a cross-sectional study
Luke Holdsworth (Hull, United Kingdom), Dominic Sykes, Medhia Afzal, Martha Ellis-Parkinson, Michael Crooks

Pre-congress content

Session 269 13:15 - 14:15

E-poster: Convex probe endobronchial ultrasound and radial probe endobronchial ultrasound

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Thoracic oncology Airway diseases Interstitial lung diseases Respiratory critical care
Method(s): Endoscopy and interventional pulmonology Imaging
Tag(s): Digital health

Chairs: Felix J.F. Herth (Heidelberg, Germany), Tudor Toma (London, United Kingdom)

Evaluation of the clinical utility of EBUS-TBNA sampling with ROSE (Rapid On-Site Evaluation) in the diagnosis of mediastinal and hilar metastatic non-lung extrathoracic primary carcinoma
Haider Al-Najjar (Manchester (Greater Manchester), United Kingdom), Matthew Rice, Nadira Narine, Robert Gillott, Durgesh Rana

Efficacy of Rapid On-Site Evaluation (ROSE) with EBUS-TBNA in the diagnosis of Small Cell Lung Cancer (SCLC) and concordance to final cytology results
Haider Al-Najjar (Manchester (Greater Manchester), United Kingdom), Babar Dildar, Durgesh Rana, Nadira Narine, David Shelton, Ben Teng

EBUS guided trans-bronchial lymph node cryobiopsy (EBUS-TBLNC): A novel technique for lymph node biopsy
Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Parimal Deshpande, Swapnil Bakamwar, Gauri Gadge

Endobronchial Ultrasound-guided Transbronchial Cryo Nodal Biopsy (EBUS-TBCNB): A novel approach for mediastinal lymph-node sampling
Hari Kishan Gonuguntla (SECUNDERABAD, India), Varunn Md, Thyagesh Ganapathy, Shah Milap, Syeda Samia, Sumita Agrawal, Nitesh Gupta, Venerino Poletti

Suppression of cough by Emblica officinalis extract, dextromethorphan versus placebo during endobronchial ultrasound bronchoscopy: a randomized double blind, double dummy, placebo-controlled trial
Wanvisa Boonfueang (Bangkok, Thailand), Thitiwat Sriprasart

Comparison of a 22G crown-cut needle with a conventional 22G needle with EBUS guidance in diagnosis of sarcoidosis
Erik Büscher (Essen, Germany), Kaiad Darwiche, Francesco Bonella, Rüdiger Karpf-Wissel, Ulrich Costabel, Dirk Theegarten, Johannes Wienker, Julia Wälscher

Rapid on-site cytological evaluation during endobronchial ultrasound guided transbronchial fine needle aspiration
Margarida Costa e Silva (Vila do Conde, Portugal), Sofia Neves, Sérgio Campainha, Daniel Coutinho, José Almeida, Ana Oliveira

Unexpected diagnosis of pulmonary tuberculosis during bronchoscopy using radial probe endobronchial ultrasound
Hyun Sung Chung (Busan, Republic of Korea), Jung Seop Eom, Jaemin Lee, Jiyeon Roh, Wando Yoo, Saerom Kim, Soohyun Bae

Multicenter randomized comparative study of guide sheath and. non-guide sheath methods during endobronchial ultrasound-guided biopsy for peripheral pulmonary lesions
Masahide Oki (Nagoya, Japan), Hideo Saka, Tatsuya Imabayashi, Daisuke Himeji, Yoichi Nishii, Harunori Nakashima, Daisuke Minami, Shotoru Okachi, Yasuyuki Mizumori, Masahiko Ando

Utility of Novel Flexible Ultrathin Cryoprobe in the Biopsy of Solitary Pulmonary Nodule
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Khai Lip Ng, Nai Chien Huan , Mona Zaria Nasaruddin , Siew Teck Tie, Jamalul Azizi Abdul Rahaman
<table>
<thead>
<tr>
<th>Session Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2459</td>
<td>Virtual bronchoscopy navigation versus rEBUS in patients with peripheral pulmonary lesions: efficacy in real clinical practice.</td>
<td>Yana Chesalina (Moscow, Russian Federation), Dmitry Dedushkin, Natalya Karpina, Elena Larionova, Ludmila Semenova, Svetlana Shishova, Ilya Yivokozov</td>
</tr>
<tr>
<td>PA2460</td>
<td>Safety of a sheath cryoprobe for transbronchial biopsy: Preliminary results of the FROSTEBITE Trial</td>
<td>Jeffrey Thiboutot (Baltimore, United States of America), Christopher Kapp, Andrew Demaio, Priya Sathyaranayan, David Feller-Kopman, Hans Lee, Najib Rahmen, Gerard Silvestri, Fabien Maldonado, Lonny Yarmus</td>
</tr>
<tr>
<td>PA2461</td>
<td>Corellation between probe-based confocal laser endomicroscopy (pCLE) and chest CT patterns in pulmonary tuberculosis</td>
<td>Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Uliana Smolnikova, Irina Tabanakova, Petr Yablonskiy</td>
</tr>
</tbody>
</table>

Pre-congress content

**Session 270**

**E-poster: Immunological and molecular characterisation of tuberculosis disease and infection**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** General respiratory patient care  Cell and molecular biology  Physiology  Epidemiology  Surgery  Public health  Pulmonary function testing  Imaging

**Chairs:** Igor Mokrousov (St. Petersburg, Russian Federation), Cristina Prat Aymerich (Badalona (Barcelona), Spain)

<table>
<thead>
<tr>
<th>Session Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2463</td>
<td>Associations between lipid mediators and cytokine production at different stages of MTB infection</td>
<td>Yana Todorova (Sofia, Bulgaria), Radoslava Emilova, Vladimir Milanov, Elizabeta Bachysiyska, Yuliana Atanasova, Ana Baykova, Maria Nikolova</td>
</tr>
<tr>
<td>PA2464</td>
<td>Cardiotoxicity of a complex of anti-tuberculosis drugs with the inclusion of fluoroquinolones and bedaquiline in an experiment on rats</td>
<td>Galina Mozhokina (Moscow, Russian Federation), Galina Mozhokina, Uliya Zuzya</td>
</tr>
<tr>
<td>PA2465</td>
<td>Cardiotoxicity of a complex of anti-tuberculosis drugs with the inclusion of fluoroquinolones and bedaquiline in an experiment on rats</td>
<td>Galina Mozhokina (Moscow, Russian Federation), Galina Mozhokina, Uliya Zuzya</td>
</tr>
<tr>
<td>PA2466</td>
<td>Mycobacterial small noncoding RNAs MTS0997 and MTS1338 are novel virulence factors of M. tuberculosis.</td>
<td>Galina Shepelkova (Moscow, Russian Federation), Vladimir Evstifeev, Ilya Sivokozov, Tatiana Azhikina, Atadzhan Ergeshov, Vladimir Yeremeev</td>
</tr>
<tr>
<td>PA2467</td>
<td>Inflammation regulating cytokines in TB affected tissues.</td>
<td>Galina Shepelkova (Moscow, Russian Federation), Vladimir Evstifeev, Ruslan Tarasov, Mamed Bagirov</td>
</tr>
<tr>
<td>PA2468</td>
<td>Expression of MDR1 gene encoding P-glycoprotein is significantly increased in active pulmonary tuberculomas</td>
<td>Maria Erokhina (Moscow, Russian Federation), Larisa Lepekha, Ekaterina Rybalkina, Ekaterina Pavlova, Ruslan Tarasov, Elena Krasnikova, Atadzhan Ergeshov</td>
</tr>
<tr>
<td>PA2469</td>
<td>CELL DEATH MODES OF WHITE BLOOD CELLS IN PATIENTS WITH COMMUNITY-ACQUIRED PNEUMONIA AND PULMONARY TUBERCULOSIS</td>
<td>Olga Hovardovska (Kharkiv, Ukraine), Olga Chevchenko, Oksana Nakonechna, Yuliia Kalashnyk-Vakulenko, Anton Tkachenko, Anatoli Onishchenko, Yelizaveta Manchenko</td>
</tr>
<tr>
<td>PA2470</td>
<td>Indoleamine 2,3-dioxygenase 1 (IDO1) activity arrests the apoptosis of Mycobacterium tuberculosis (M. tuberculosis)-infected macrophages</td>
<td>Liuhui Guo (Amsterdam, Netherlands), Bente Hollestelle, Samantha A.M. Tromp, Annemiek Dijkhuis, Rene Lutter</td>
</tr>
<tr>
<td>PA2471</td>
<td>The gut microbiota state in patients with pulmonary tuberculosis.</td>
<td>Violetta Shorokhova (Moscow, Russian Federation), Rizvan Abdullaev, Oksana Komissarova</td>
</tr>
<tr>
<td>PA2472</td>
<td>Antimycobacterial signaling pathways are differentially regulated in alveolar macrophages of tuberculosis patients</td>
<td>Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva, Diana Vakhrushева, Sergey Skornyakov</td>
</tr>
<tr>
<td>PA2473</td>
<td>Characteristic of M.tuberculosis in the Central Region of the Russian Federation (2017-2019)</td>
<td>Tatiana Smirnova (Moscow, Russian Federation), Sofya Andreevskaya, Larisa Chernouskova, Elena Larionova, Atadzan Ergeshov</td>
</tr>
</tbody>
</table>
**PA2473**
The Beijing genotype dominates the multidrug-resistant Mycobacterium tuberculosis population in North-West Russia

Anna Vyazovaya (St. Petersburg, Russian Federation), Alena Gerasimova, Natalia Solovieva, Daria Starkova, Neliya Vasilieva, Daria Terentieva, Regina Mudarisoiva, Viacheslav Zhuravlev, Olga Narvskaya

**PA2474**
Electronic antibiograms of Mycobacterium tuberculosis using Illumina whole genome sequencers data and Mykrobe software tool predictor.

Vladimir Tolchkov (Sofia, Bulgaria)

**PA2475**
Highly lethal strain cluster of the Mycobacterium tuberculosis Beijing genotype endemically prevalent in Buryatia, Russia

Igor Mokrousov (St. Petersburg, Russian Federation), Tatiana Vinogradova, Marine Dogonadze, Maria Badleeva, Irina Yarusova, Natalia Zabolotnykh, Maria Vitovskaya, Anna Vyazovaya, Alena Gerasimova, Svetlana Zhdanova, Polina Khromova, Viacheslav Sinkov, Vladimir Molchanov, Ekaterina Chernyeva, Natalia Solovieva, Oksana Pasechnik, Oleg Ogarkov

**PA2476**
Determination of the six polymorphisms in the NAT2 gene helps to predict isoniazid side effects.

Ksenia Galkina (Moscow, Russian Federation), Maria Sviridenko, Elena Nosova, Anastasia Khakhalina, Alexandra Isakova, Svetlana Safonova

**PA2477**
Changes in the metabolism of Mycobacterium tuberculosis during the course of TB treatment

Julia Bespyatykh (Moscow, Russian Federation)

**PA2478**
Late Breaking Abstract - Transcriptomic signature for precise prediction of systemic drug reaction during 3HP treatment for latent tuberculosis infection

Jann-Yuan Wang (Taipei, Taiwan), Hung-Ling Huang, Jinn-Moon Yang, Inn-Wen Chong

**PA2479**
Late Breaking Abstract - Clinical and epidemiological characteristics of Co-infection: respiratory tuberculosis and COVID-19.

Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Margarita Shchigaleva, Polina Lyashko, Lianna Hachatryan

**PA2480**
Late Breaking Abstract - Bedaquiline enhances receptor phagocytosis and decreases IL1b production in human pro-inflammatory macrophages

Ekaterina Pavlova (Moscow, Russian Federation), Maria Erokhina

---

**Pre-congress content**

**Session 271**

**13:15 - 14:15**

E-poster: From phenotyping to different diagnostic tools for sleep breathing disorders

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Chairs:** Simon Dominik Herkenrath (Köln, Germany), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

**PA2481**

**VALIDITY OF A “NON-CONTACT” DIAGNOSTIC METHOD OF SLEEP ANALYSIS BY THERMOGRAPHIC CAMERA AND ARTIFICIAL INTELLIGENCE.**

Paula Rodriguez Rodriguez (Vitoria, Spain), Aitor Moreno Fernández De Lecea, Alexeiv Martinez Garcia, Salvador Delis Gómez, Carla Pia Martinez, Ainhoa Alvarez Ruiz De Larrinaga, Joaquin Duran-Cantolla

**PA2482**

**VALIDITY OF A DIAGNOSTIC METHOD BY “NO CONTACT” TECHNOLOGY IN DETECTION OF SLEEP APNEA THROUGH A THERMOGRAPHIC CAMERA AND ARTIFICIAL INTELLIGENCE.**

Paula Rodriguez Rodriguez (Vitoria, Spain), Aitor Moreno Fernández De Lecea, Alexeiv Martinez Garcia, Carla Pia Martinez, Salvador Delis Gómez, Ainhoa Alvarez Ruiz De Larrinaga, Joaquin Duran-Cantolla

**PA2483**

Comparative study between automatic and manual scoring in the diagnosis of sleep apnea by home respiratory polygraphy

Pedro Amorim (Porto, Portugal), Cláudio Gomes, Ana Sofia, Marta Drummond, Tiago Jacinto

**PA2484**

Validation study of a new analysis software to screen sleep respiratory disorders

Alberto Braghiroli (gattico-Veruno (NO), Italy), Alberto Braghiroli, Carlo Sacco, Andrea Giordano, Massimo Godio, Fabio Rossato, Sabrina Rossi, Sonia Carli, Bruno Balbi, David Kuller, Elisa Morrone

**PA2485**

Can snoring intensity predict high blood pressure in the obstructive sleep apnea-hypopnea syndrome?

Esma Jameleddine (Tunis, Tunisia), Souha Kallel, Khouloud Kchaou, Serra Guesmi, Firas Maalej, Ilhem Charfeddine
OSA patients not treated with PAP - evolution 5 years ahead according to Baveno classification
Mariana Serino (Braga, Portugal), Catarina Cardoso, Ricardo José Cordeiro, Joana Ferra, Filipa Aguiar, Daniela Rodrigues, Margarida Redondo, Mafalda Van Zeller, Marta Drummond

Predictors of end-organ damage in patients with Obstructive Sleep Apnea according to the Baveno classification
Mariana Serino (Braga, Portugal), Catarina Cardoso, Ricardo José Cordeiro, Joana Ferra, Filipa Aguiar, Daniela Rodrigues, Margarida Redondo, Mafalda Van Zeller, Marta Drummond

Polygraphic parameters do not correlate with obstructive sleep apnoea (OSA) symptoms according to Baveno
Simon Dominik Herkenrath (Köln, Germany), Winfried Randerath, Marcel Treml, Ludger Grote, Jan Hedner, Maria R. Bonsignore, Jean-Louis Pépin, Silke Ryan, Sophia E. Schiza, Johan Verbraecken, Walter T. McNicholas, Athanasia Pataka, Pawel Sliwiński, Ozen K. Basoglu

Respiratory polygraphy patterns and risk of cardiovascular events in patients with acute coronary syndrome
Andrea Zapater Matute (Leida, Spain), Manuel Sánchez-De-La-Torre, Alicia Sánchez-De-La-Torre, Esther Gracia-Lavedan, Iván David Benitez, Gerard Torres, Ferran Barbé

AHI and the polysomnographic risk factors for predicting 5 to 8 years mortality in patients with OSA
Yelda Varol (Izmir, Turkey), Isil Karasu, Burcu Oktay Arslan, Zeynep Zeren Ucar

Association of symptom subtypes and obstructive sleep apnoea-specific hyposonic burden with cardiovascular morbidity and all-cause mortality
Wojciech Trzepizur (Angers, France), Margaux Blanchard, Timothée Ganem, Frédéric Balussou, Mathieu Feuilloy, Jean-Marc Girault, Nicole Meslier, Emmanuel Oger, Audrey Paris, Thierry Pigeanne, Jean-Louis Racineux, Chloé Gervès-Pinquié, Frédéric Gagnadoux

Positive airway pressure level based upper airway collapsibility classification – the European Sleep Apnea Database (ESADA)
Ding Zou (Göteborg, Sweden), Sophia Schiza, Tarja Saaresranta, Athanasia Pataka, Johan Verbraecken, Carolina Lombardi, Holger Hein, Pavol Joppa, Ondrej Ludka, Maria R. Bonsignore, Silke Ryan, Ozen K. Basoglu

Cultural Values in the ESADA Database
Renata L. Riha (Edinburgh, United Kingdom), Serafeim-Chrysovolantis Kotoulas, Athanasia Pataka

Residual daytime sleepiness (RES) in CPAP-treated obstructive sleep apnea (OSA) patients in the European Sleep Apnea Database (ESADA)
Calogero Davide Giuseppe Barbera (Campobello di Mazara (TP), Italy), Fabio Cibella, Francesco Fanfulla, Jean-Louis Pepin, Walter Mc Nicholas, Sophia Schiza, Tarja Saaresranta, Jan Hedner, Ludger Grote, Johan Verbraecken, Maria Rosaria Bonsignore On Behalf Of The Esada Study Group

The sleepy phenotype in mild Obstructive Sleep Apnoea (OSA) patients: from clinical characteristics to cardiometabolic risk. Data from the European Sleep Apnea Database (ESADA)
Izolde Bouloukaki (Heraklion (Crete), Greece), Marisa Bonsignore, Ludger Grote, Walter McNicholas, Jan Hedner, Johan Verbraecken, Silke Ryan, Carolina Lombardi, Ozen Basoglu, Athanasia Pataka, Fransesco Fanfulla, Sebastien Bailly, Jean-Louis Pepin, Paschalis Steiropoulos, Sophia Schiza

Patient and partner reporting sleepiness in patients with obstructive sleep apnoea using the Epworth Sleepiness Scale. Kallirroi Lamprou (Athens, Greece), Konstantinos Chaidas, Konstantinos Stamopoulos, Hussein Chrief, John Stradling, Annabel Nickol

Reasons for women visiting sleep unit – A Greek population
Effrosini Dima (Athens, Greece), Ioanna Sigala, Aliki Minaritzoglou, Thanasis Kallimanis, Paraskevi Katsaounou, Manos Vagiakis

Pre-congress content Session 272 13:15 - 14:15
E-poster: Future advances in respiratory physiology
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Disease(s): Airway diseases, Sleep and breathing disorders

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

Chairs: Max Thomas (Birmingham, United Kingdom), Rachel Ong-Salvador (Amsterdam, Netherlands)

PA2501 Does smoking history change depending on the way questions are asked?
Daniel Schuermans (Bruxelles, Belgium), Samuel De Bontridder, Shane Hanon, Eef Vanderhelst

PA2502 Impact on spirometry quality results when using 2005 or 2019 ATS/ERS guidelines
Eva Topole (Ljubljana, Slovenia), Sonia Biondaro, Isabella Montagna, Sandrine Corre, Sanja Stanojevic, Nilakash Das, Kevin Ray, Marko Topalovic

PA2503 Long-term accuracy of DLCO devices
Matthew Hegewald (Murray, United States of America), Robert Jensen, Christian Buess

PA2504 Evaluation of the Air Next spirometer in paediatric cystic fibrosis patients.
Natalie Blyth (Nottingham, United Kingdom), Natalie Blyth, Prakash Patel, Joe Madge, Harriet Lambert, Molla Imaduddin Ahmed, Erol Guillard

PA2505 ArtiQ.QC facilitates spirometry quality control in asthma and COPD clinical trials
Eva Topole (Ljubljana, Slovenia), Sonia Biondaro, Isabella Montagna, Sandrine Corre, Sanja Stanojevic, Nilakash Das, Kevin Ray, Marko Topalovic

PA2506 Impact of exercise training on pulmonary diffusing capacity in diabetes
Corentin Scoubeau (Vilvoorde, Belgium), Emilie Maufroy, Cyril Tordeur, Vitalie Faoro

PA2507 Pulmonary function in patients with sporadic lymphangioleiomyomatosis.
Alexander Cherniak (Moscow, Russian Federation), Marina Makarova, Sergey Avdeev

PA2508 A systematic review of the quality and fit of local spirometry studies to the Global Lung Initiative (GLI) and global chronic respiratory disease burden
Duron Prinsloo (Carlton South, VIC 3053, Australia), Duron Prinsloo, Gary Nolan, Nadine Pyne, Suzanne Munns

PA2509 Medical rehabilitation of patients after COVID-19 and its impact on lung function and quality of life.
Olga Savushkina (Moscow, Russian Federation), Alexander Cherniak, Maria Malashenko, Evgeniy Kryukov

PA2510 The acceptability criterion for the difference between the forced inspiratory vital capacity (FIVC) and the forced vital capacity (FVC) are too strict?
Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Anna Egorova, Natalya Karpina

PA2511 Is COPD Assessment Test score better correlated with airflow limitation or Hyperinflation?
Soumaya Khaldi (Borj Cedria, Tunisia), Khouloud Kchaou, Asma Chaker, Salma Mokaddem, Saloua Ben Khamsa Jameleddine

PA2512 Utility of predischarge spirometry in AECOPD discharges
Samir Naik (Harlow (Essex), United Kingdom), Ravi Ragatha, Mohammad Anwar, James Seigel

PA2513 The within session repeatability of spirometry parameters in patients with chronic obstructive pulmonary diseases
Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Anna Egorova, Natalya Karpina

PA2514 Prevalence of altering selected spirometry maneuvers in asthma clinical trials.
Carl D. Mottram (Rochester, United States of America), Grant Sowman

PA2515 Impacts of transitioning to Global Lung Function Initiative (GLI) spirometry reference ranges on airflow classification and severity in Papua New Guinea.
Shalon Taufla (Port Moresby, Papua New Guinea), Suzanne Munns

PA2516 The association of body mass index with lung function in patients treated for pulmonary tuberculosis
Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Veronika Beketova, Anna Egorova, Natalya Karpina

PA2517 Effect of professional football practice on Maximal Inspiratory and Expiratory Pressures
Asma Chaker (Ariana, Tunisia), Soumaya Khaldi, Sahar Chakroun, Khouloud Kchaou, Saloua Ben Khamsa Jameleddine

Pre-congress content
Session 273 13:15 - 14:15
E-poster: Asthma and COPD meets COVID-19: new diagnostic tools and results from clinical trials
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): General respiratory patient care, Respiratory intensive care, Pulmonary function testing, Physiology, Cell and molecular biology, Public health

Chairs: Alberto Papi (Ferrara, Italy), Francesca Polverino (Tucson, United States of America)

PA2518 Diagnostic utility of serum periostin for house dust mite sublingual immunotherapy response in allergic rhinitis
Marko Hoshino (Atami, Japan), Kenta Akitsu, Kengo Kubota, Junichi Ohtawa

PA2519 Dupilumab sustains long-term OCS reduction in OCS-dependent asthma patients
Michael E. Wechsler (Denver, United States of America), Lawrence Sher, Klaus F. Rabe, Jorge F. Maspero, Nadia Daizadeh, Xuezhou Mao, Benjamin Ortiz, Leda P. Mannent, Elizabeth Laws, Marcella Rudd, Nami Pandit-Abid, David J. Lederer, Megan Hardin

PA2520 SNOT-22 items and association with objective measures in dupilumab-treated patients with severe chronic rhinosinusitis with nasal polyps from SINUS-24 and SINUS-52 trials
Joaquim Mullol Miret (Barcelona, Catalonia, Spain), Giorgio Walter Canonica, Martin Wagenmann, Andre Coste, Peter Hellings, Scott Nash, Siddhesh Kamat, Urvi Mujumdar, Jérôme Msihid, Asif H Khan, Shahid Siddiqui, Juby A Jacob-Nara, Yamo Deniz, Paul Rowe

PA2521 Efficacy of dupilumab in patients with oral corticosteroid (OCS)-dependent, severe asthma with and without an allergic phenotype: phase 3 LIBERTY ASThma VENTURE
Alberto Papi (Ferrara, Italy), Guy Brusselle, Bradley E. Chipp, Jérôme Msihid, Juby A. Jacob-Nara, Yamo Deniz, Paul Rowe, Rebecca Gall, Benjamin Ortiz, Michel Djandjji, Amr Radwan

PA2522 Evaluation of nasal response to birch allergen in ALYATEC EEC as compared to NPT
Alina Gherasim (Strasbourg, France), Alina Gherasim, Frank Dietsch, Marine Beck, Maude Meyer, Thibaut Riff, Nathalie Domis, Frédéric De Blay

PA2523 Platelet aggregation status in chronic obstructive pulmonary disease associated with SARS-Cov-19
Lilia Todoriko (Cherkasy, Ukraine), Mykola Gumeniuk, Ihor Semianiv, Tania Sprynsia, Olexandr Denisov

PA2524 Severe asthma biologic treatment in the era of COVID-19 – case series
Pedro Miguel Nogueira Costa (Fafe, Portugal), Cláudia Chaves Loureiro

PA2525 Is asthma a risk factor for severe outcomes in COVID 19?
Walid Feki (Sfax, Tunisia), Amal Saidani, Sabrine Maddeh, Nesrine Kallel, Nadia Moussa, Rahma Gargouri, Amina Kotti, Najla Bahloul, Samy Kammoun

PA2526 Late Breaking Abstract - DCLK1 mediates thrombin-induced IL-8/CXCL8 expression in lung epithelial cells
Fara Silvia Yuliani (Taipei, Taiwan), Jing-Yun Chen , Wun-Hao Cheng, Heng-Ching Wen, Bing-Chang Chen, Chien-Huang Lin

PA2527 Late Breaking Abstract - Steroid resistance in obese asthmatic patients: a potential role of obesity-related systemic oxidative stress
Masako To (Saitama, Japan), Natsue Honda, Ichino Kano, Kosuke Haruki, Yasuo To

PA2528 Late Breaking Abstract - Hypoxia dampens the allergen-dependent adaptive immune response and ameliorates allergic asthma in vivo
Mathias Hochgerner (Graz, Austria), Eva M Sturm, Diana Schmoegl, Grazyna Kwapiszewska, Horst Olschewski, Leigh M Marsh

PA2529 Late Breaking Abstract - Delivery of anti-inflammatory and anti-oxidant synthetic mRNA to a rodent ARDS model by vibrating mesh nebulisation
Sean McCarthy (Galway, Ireland), Matthew Angel, Christopher Rohde, Claire Masterson, Ronan Macloughlin, John Laffey, Daniel O'Toole

PA2530 Late Breaking Abstract - Enhanced IL-33 response in differentiated human TH2 cells carrying the IL-1RL1 asthma risk genotype
Aksaya Keerthi Saikumar Jalalatha (Groningen, Netherlands), Laura Hesse, Marlies Ketelaar, Maarten Van Den Berge, Victor Gurvey, Gerard Koppelman, Martijn Nawiijn

Pre-congress content Session 274 13:15 - 14:15
E-poster: Interstitial lung disease, COVID-19 and friends
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** Pulmonary function testing, Imaging, Epidemiology, General respiratory patient care, Respiratory intensive care

**Tag(s):** COVID, Digital health

**Chairs:** Antje Prasse (Hannover, Germany), Martina Bonifazi (Ancona (AN), Italy)

**Impact and outcome of COVID-19 on SSC-ILD**
Anna Maria Hoffmann-Vold (Oslo, Norway), Cathrine Brunborg, Francesca Tirelli, Patricia E Carreira, Nicoletta Del Papa, Arsène Mekinian, Madelon Vonk, Alessandro Giollo, Giacomo De Luca, Maria De Santis, Corrado Campochiaro, Carina Mihai, Paolo Airo, Maria-Grazia Lazzaroni, Elisabetta Zanatta, Rosario Foti, Yannick Allanore, Daniel E. Furst, Marco Cerinic-Matucci, Armando Gabrielli, Oliver Distler

**Decisional algorithm in the differential diagnosis of lung outcomes from COVID-19.**
Simonetta Vernocchi (Gallarate, Italy), Teresa Serini, Andreas Aceranti, Ombretta Grassi, Luca Tomaiello, Erica Pagliaro, Nicola Mummol

**Homemonitoring after hospital admission for COVID-19: the HOMECOMIN’ study**

**Improvement in SARS-CoV2 lung interstitial injuries with systemic corticosteroid treatment**
Paula Copil (Bucharest, Romania), Claudia Toma, Stefan Dumitrac-Hejzinski, Tudor Constantinescu, Ionela Belaconi, Catalina Ene, Ima Ruseva, Cicerone Iordache, Eddan Aftir, Roxana Nemes

**Pulmonary sequelae in patients with COVID-19: results after 3 months of follow-up**
Anna Stainer (Vigevano, Italy), Paola Faverio, Sara Busnelli, Fabrizio Luppi, Anna Monzani, Francesco Ammatuna, Ilaria Montanelli, Martina Catalano, Luca Parachini, Stefano Zucchetti, Alberto Pesci

**Seasonal epidemiology and clinical manifestations of interstitial lung diseases (ILD) as an important criterion for differential diagnosis viral pneumonia with pulmonary arterial hypertension (PAH) associated with severe COVID-19.**
Oleh Yakovenko (Lutsk, Ukraine), Tetiana Yakovenko, Olga Liuta

**Management of patients with ARDS secondary to Covid-19 who develop fibrotic changes in the Intensive Care Unit**
Guadalupe Bermudo Peloche (Barcelona, Spain), Maria Molina, Vanesa Vicens, Marta Hernández, Guillermo Suárez, Pere Trias, Jaume Bordas, Salud Santos, Santiago Bolivar, Belen Del Rio, Joan Sabater, Xavi Perez, Ramon Jodar, Maria Paz Fuset

**Continued nintedanib treatment in patients with progressive fibrosing ILDs: interim analysis of INBUILD-ON**
Wim A Wuyts (Leuven, Belgium), Francesco Bonella, Nazia Chaudhuri, Francesco Varone, Danielle Antin-Ozerkis, Heiko Mueller, Carl Cocek, Klaus B Rohr, Vincent Cottin

**Safety and tolerability of nintedanib in patients with fibrosing interstitial lung diseases: pooled data from four trials**
Claudia Valenzuela (Madrid, Spain), Shervin Assassi, Francesco Bonella, Toby M Maher, Lazaro Loaiza, Inga Tschoepe, Leticia Orsatti, Martin Kolb

**Characteristics of Connective Tissue Diseases Associated Interstitial Lung Diseases - A Single Centre Study in Sri Lanka**
Prasanjanie Anuruddhika Jayasinghe (COLOMBO, Sri Lanka), Nuwan Wickramasinghe, Prathapan Krishnakumar, Afla Sadikeen, Amitha Fernando

**Interstitial lung diseases frequency in a regional reference center in Brazil**
Agostinho Hermes Medeiros De Neto (João Pessoa (PB), Brazil), Mariana Pereira Morais, Kercia Dantas Saraiva, Maria Alenita Oliveira, Jacinta Maria Parente Vieira, Alessandra Souza Brait, Felipe Reis Silva Queiroz, Alexandre Rolim Paz, Petrucio Abrantes Sarmento, Francisco Antonio Barbosa Queiroga, Daniel Pires Pessoa

**Incidence, prevalence and mortality of rheumatoid arthritis-associated interstitial lung disease: a retrospective study**
Anna Denis (Malmedy, Belgium), Monique Henket, Fanny Gester, Marie Thys, Marie Ernst, Nathalie Maes, Laurie Giltay, Anne-Noëlle Frx, Quentin Malour, Colin Desir, Paul Meunier, Renaud Louis, Julien Guiot

**Pneumocystis jiroveci Pneumonia prophylaxis in patients treated with mycophenolate mofetil for interstitial lung disease**
Peter J Ireland (Newcastle Upon Tyne, United Kingdom), Lyndsey Langlands, Claire Donaldson, A John Simpson, Ian A Forrest, Sarah Wiscombe, Wendy Funston
Pleural plaque volume correlation to lung function and artificial intelligence-driven pleural plaque quantification
Kevin Bernardus Wilhelms Groot Lipman (Amsterdam, Netherlands), Thierry N. Boellaard, Cornedine J. De Gooijer, Nino Bogveradze, Eun Kyoung Hong, Federica Landolfi, Francesca Castagnoli, Luciano Castro Cavallo, Natalya Lebedyeva, Ferdi Van Der Heijden, Regina G. H. Beets-Tan, Zuhir Bodalal, Sjaak Burgers, Stefano Trebeschi

Channel 1  Session 275  14:35 - 15:50
Challenging clinical cases: CCC Interstitial lung diseases
Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in interstitial lung disease area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

Disease(s): Interstitial lung diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Radiologist, Nurse

Chairs: Hilario Nunes (Bobigny, France), Elisabetta Renzoni (London, United Kingdom)

14:35 Introduction

14:40 A paucisymptomatic sandstorm?
Gioconda Gabriela Narvaez Ludeña (Sabadell, Spain)

14:50 A difficult case of acute lung injury
Silvia Puglisi (Catania (CT), Italy)

15:00 Cysts and systemic findings: think about rare diseases
Andrei Darie (Basel, Switzerland)

15:10 Are electronic cigarettes the real solution to quit smoking?
Fatima Andres Franch (Sueca (Valencia), Spain)

15:20 A case with a loaded answer
Karen Czischke Ljubetic (Santiago, Chile)

15:30 Discussion and Q&A
All Speakers

Channel 2  Session 276  14:45 - 16:15
Oral presentation: New insights into the pathophysiology and prognosis of COPD
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases, Pulmonary vascular diseases
Method(s): General respiratory patient care, Imaging, Physiology, Pulmonary function testing, Pulmonary rehabilitation, Epidemiology

Chairs: Pierantonio Laveneziana (Paris, France), Georgios Kaltsakas (Athens, Greece)

OA2552 Introduction

OA2553 Severe exertional dyspnoea in COPD: Implications for exercise tolerance and survival
J. Alberto Neder (Kingston (ON), Canada), Juan Pablo De Torres, M. A. Martin-Palmero, Danilo C Berton, Philips Devin, Matthew James, Sandra Vincent, Denis E. O’Donnell

OA2554 Altitude effect on COPD in SPIROMICS cohort
Rajat Suri (Los Angeles, United States of America), Daniela Markovic, Donald P Tashkin, Christopher B Cooper, Robert Paine, Andrew Freeman, Mehrdad Arjomandi, R. Graham Barr, Russell P Bowler, Russell G Buhr, Jeffrey L Curtis, Mark T Dransfield, M. Brad Drummond, Spyridon Fortis, Meilan Han, Eric A Hoffman, Victor Kim, Wanda Kay O’Neal, Victor Ortega, Fernando J Martinez, Steve Rennard, Prescott Woodruff, Igor Barjaktarevic

OA2555 Low DLCO, reduced pulmonary blood volume and ventilatory inefficiency in smokers with mild emphysema
Amany Fathy Elbehairy (Alexandria, Egypt), Sandra G. Vincent, Devin B. Phillips, Matthew D. James, Jenna Veugen, Grace Parraga, Denis E. O’Donnell
The effects of short-term nocturnal non-invasive ventilation (NIV) on respiratory muscle functional capacity in COPD patients with chronic hypercapnic respiratory failure (CHRF)
Zafeiris Louvaris (Leuven, Belgium), Nina Cardinaels, Eva Arens, Shari Kerssebeek, Bart Vrijsen, Dries Testelmanns, Wim Janssens, Bertien Buyse, Rik Gosselink, Daniel Langer

Oxygenation and electromyographic responses of the quadriceps during the 1-minute sit-to-stand in patients with severe COPD and healthy controls
Sarah Gephine (Québec (QC), Canada), Patrick Mucci, Mickael Martin, Didier Saey, François Malais

Ventilation Heterogeneity in Asthma and COPD. The value of the poorly communicating fraction, as the ratio of total lung capacity to alveolar volume.
Annalisa Frizzelli (Parma, Italy), Annalisa Frizzelli, Roberta Pisi, Marina Aiello, Luigino Calzetta, Laura Marchi, Veronica Alfieri, Giuseppina Bertorelli, Giovanna Pisi, Alfredo Chetta

Ultrasound diaphragm activity as a marker of clinical status and prognosis in acute exacerbations of COPD
Aileen Kharat (Genève, Switzerland), Martin Girard, Bruno-Pierre Dube

Components of dyspnoea during incremental exercise across the COPD continuum
Devin Phillips (Kingston, Canada), Devin Phillips, J Alberto Neder, Amany Elbeihairy, Kathryn Milne, Matthew James, Sandra Vincent, Andrew Day, Juan Pablo De-Torres, Katherine Webb, Denis O'Donnell

Continuous monitoring of pulse oximetry during the 6-minute walk test improves survival prediction in COPD
Danilo C Berton (Porto Alegre (RS), Brazil), Kellen S Batista, Igor D Cézar, Igor G Benedetto, Danton Pereira Da Silva, Paulo R Sanches, Juan Pablo De Torres, Marcelo B Gazzana, Marli M Knorst, J Alberto Neder

Late Breaking Abstract - Validation of the 2021 GLI reference equations for static lung volumes in a general European cohort
Tobias Lorenz Mraz (Wien, Austria), Marija Veselinovic, Alina Ofenheimer, Marie-Kathrin Breyer, Sylvia Hartl, Otto-Christ Burghuber, Brendan G. Cooper, Angela Zacharasiewicz, Bernd Lampsrecht, Sanja Stanojevic, Robab Breyer-Kohansal

Introduction

Asthma symptom severity and diagnosis in adolescents in sub-Saharan Africa
Victoria Oyenuga (Essex, United Kingdom), Gioia Mosler, Emmanuel Addo-Yobo, Olayinka Olufunke Adeyeye, Refiloe Masekela, Hilda Angela Mujuru, Rebecca Nantanda, Sarah Rylande, Ismaïl Ticklay, Jonathan Grigg

Phenotypes of persistent asthma in adolescents revealed different patterns in longitudinal asthma-related outcomes
Rita Amaral (Porto, Portugal), Cristina Jácome, Rute Almeida, Ana Pereira, Magna Alves-Correia, Sandra Mendes, José Cidrais Rodrigues, Joana Carvalho, Luís Araújo, Alberto Costa, Armandina Silva, M Fernanda Teixeira, Manuel Ferreira-Magalhães, Rodrigo Rodrigues-Alves, Ana Sofia Moreira, Ricardo Fernandes, Rosário Ferreira, Paula Leiria-Pinto, Nuno Neuparth, Diana Bordalo, Ana Todo-Bom, M José Cálix, Tania Ferreira, Joana Gomes, Carmen Vidal, Ana Mendes, M José Vasconcelos, Pedro Morais Silva, José Ferraz, Ana Morête, Cláudia S Pinto, Natacha Santos, Cláudia Chaves Loureiro, Ana Arrobas, Maria Luís Marques, Carlos Lozoya, Cristina Lopes, Francisca Cardia, Carla Chaves Loureiro, Raquel Câmara, Inês Vieira, Sofia Da Silva, Eurico Silva, Natalina Rodrigues, João A. Fonseca

Metabolomic approach in the characterization of omalizumab responders and non-responders among children with severe asthma: a multicenter prospective study.
Silvia Ciarro (Padova (PD), Italy), Emanuela Di Palmo, Simona Barni, Valeria Caldarelli, Giovanna De Castro, Antonio Di Marco, Grazia Fenu, Giuseppe Giordano, Amelia Licari, Enrico Lombardi, Paola Pirillo, Matteo Stocchero, Alessandro Volpini, Stefania Zanconato, Franca Rusconi
**OA2568**

**Dupilumab efficacy in children with uncontrolled, moderate-to-severe asthma with and without an allergic phenotype**

Christian Domingo Ribas (Sabadell (Barcelona), Spain), Nikolas Papadopoulos, Stanley J. Szefler, Leonard B. Bacharier, Jorge F. Maspero, Nadia Daizadeh, David J. Lederer, Megan Hardin, Juby A. Jacob-Nara, Yamo Deniz, Rebecca Gall, Benjamin Ortiz, Michel Djandji, Paul Rowe

**OA2569**

**Bronchial remodeling-based latent class analysis predicts exacerbations in severe preschool wheezers**

Fabien Beaufils (Bordeaux, France), Michael Fayon, Marine Michelet, Valerie Siao-Him-Fa, Guillaume Simon, Hugues Begueret, Patrick Berger

**OA2570**

**Excessive meat consumption in the first year increases asthma risk in the PASTURE and LUKAS2 birth cohorts**

Alexander Hose (München, Germany), Giulia Pagani, Anne Karvonen, Pirikka Kirjavainen, Caroline Roduit, Jon Genuneit, Elisabeth Schmauler-Hechfellner, Martin Depner, Remo Frei, Roger Lauener, Josef Riedler, Erika Von Mutius, Amandine Divaret-Chauveau, Juha Pekkanen, Markus Ege

**OA2571**

**Rhinovirus bronchiolitis during infancy and later pre-school lung inhomogeneity**

Carla Rebeca Da Silva Sena (Newcastle, Australia), Aida Shaar, Matthew Morten, Joseph Meredith, Elizabeth Kepreotes, Vanessa Murphy, Peter Gibson, Peter Sly, Bruce Whitehead, Wilfried Karmaus, Adam Collison, Paul D Robinson, Joerg Mattes

**OA2572**

**The role of respiratory syncytial virus and rhinovirus in early recurrent wheeze and asthma inception – a systematic review**

Heidi Makrinioti (Athens, Greece), John Lakountenas, Paraskevi Xepapadaki, Maria Tsolia, Sebastian Johnston, Carlos Camargo, Andrew Bush, Vassiliki Papaevangelou, Nikos Papadopoulos

**OA2574**

**Introduction**

Gustaf Lyytinen (Höganäs, Sweden), Amelie Bryndal, Erik Anesäter, Lukasz Antoniewicz, Anders Blomberg, Håkan Wallen, Jenny Bosson, Linnea Hedman, Fariborz Mobarrez, Sara Tehrani, Magnus Lundbäck

**OA2576**

**Preconceptional e-cigarette use alters tracheal gene expression in F1 Drosophila melanogaster larvae**

Hanna Angstmann (Borstel, Germany), Karin Uliczka, Beate Höschler, Natalia El-Merhie, Thomas Roeder, Klaus F. Rabe, Susanne Krauss-Etschmann

**OA2577**

**Comparison of gaseous emissions of conventional and heated tobacco products**

Efthimios Zervas (Patra, Greece), Saida Mukhanova, Niki Matsouki, Emmanouil Konstantinidis, Alma Shopabayeva, Talgat Nurgozhin, Stavros Poulopoulos, Paraskevi Katsaounou

**OA2578**

**Increased exposure to tobacco smoke for children during the COVID-19 era**

Cara J. Bossley (London, United Kingdom), Mira Osinibi, Atul Gupta, Katherine Harman

**OA2580**

**Overexpression of the SARS-CoV-2 receptor ACE2 is induced by cigarette smoke in bronchial and alveolar epithelia**

Mingxuan Xie (410008, China), Mingxuan Xie, Aibin Liu, Qiong Chen, Chengping Hu, Baimei He, Pinhua Pan, Xin Zhang, Ronggang Li, Yanning Huang

**OA2581**

**Inpatient smoking cessation during COVID-19: a highly teachable moment**

Gareth Jones (Liverpool, United Kingdom), Frederick Frost, Kate Maitland, Thomas Green, Mark Clark, Anthony Duffy

**OA2582**

**The presence of smoking in popular movies available in online streaming platform. A relentless fire still burning.**

Dimosthenis Lykouras (Patra, Greece), Ilias Giannakodimos, Olga Lagiou, Maria Tsiamita, Sotiris Tsakas, Kiriakos Karkoulis

**Channel 4  Session 278  14:45 - 16:15**

**Discussion**

All Speakers
Most users quit e-cigarettes without succeeding to quit smoking
Linnea Hedman (Luleå, Sweden), Helena Backman, Caroline Stridsman, Anne Lindberg, Eva Rönmark

Survey on the compliance with plain packaging regulation
Elif Dagli (Istanbul, Turkey), Tanzer Gezer, Pinar Ay, Murat Guner, Osman Elbek, Fusun Yıldız, Murat Ceyhan

Late Breaking Abstract - Brief use of heated tobacco products causes increased arterial stiffness and thrombotic activity
Gustaf Lyytinen (Höganäs, Sweden), Amelie Bryndal, Erik Anesäter, Lukasz Antoniewicz, Anders Blomberg, Jenny Bosson, Faríborz Mobarrez, Linnea Hedman, Sara Tehrani, Magnus Lundbäck

Discussion
All Speakers

Channel 5
Session 279
14:45 - 16:15

Oral presentation: Insights into pulmonary embolism

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Pulmonary vascular diseases | Airway diseases | Respiratory critical care

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

Chairs: Laurent Bertoletti (Saint Etienne Cedex, France), Sheila Ramjug (Altrincham, United Kingdom)

Venous thromboembolism associated with reduced lung function, dyspnoea and asthma in the general population
Kristin Felicia Nilausen (Køge, Denmark), Eskild Morten Landt, Suzan Al-Shuweli, Uffe Bødtger, Borge Grønne Nordestgaard, Morten Dahl

A case-control study on direct oral anticoagulants versus warfarin for acute pulmonary embolism in obese patients
Chinthaka Samaranayake (London, United Kingdom), Colm Mccabe, Simon Slader, Tommy Tseng, Khoa Tran, James Anderson, Laura Price, S John Wort, Andrew Mccann, Gregory Keir, John Upham

Systemic corticosteroids and the risk of venous thromboembolism in COPD patients: A nationwide study of 30,473 outpatients with severe-very severe COPD

The role of uric acid to creatinine ratio as predictor marker during pulmonary embolism
Konstantinos Bartzikas (Trikala, Greece), Chris Kyriakopoulos, Athena Gogali, Dimitrios Potonos, Konstantinos Exarchos, Christos Chronis, Konstantinos Kostikas

Comparison of Septic and Non-Septic Pulmonary Embolism in Children
Dvir Gatt (Beer Sheva, Israel), Shalom Ben Shimol, Guy Hazan, Inbal Golan Tripto, Aviv Goldbart, Micha Aviram

Post-COVID-19 patients show an increased endothelial progenitor cell production
Paula Poyatos (Girona, Spain), Neus Luque, Laura Sebastián, Marc Bonnin, Saioa Eizaguirre, Gladis Sabater, Mineira Boixadé, Ramon Orriols, Olga Tura-Count

Right ventricular assist devices for mechanical circulatory support in acute massive pulmonary embolism: a single centre experience
Chinthaka Samaranayake (London, United Kingdom), Benjamin Garfield, Sam Seftit, Simon Davies, Stephane Ledot, Colm Mccabe, S John Wort, Susanna Price, Laura Price, Richard Trimlett

Pulmonary Embolism: Incidence, spectrum of CTPA findings, and correlation of D-dimers with embolus location. Is age-adjusted D-dimers cutoff a better screening method?
Serafeim Chrysikos (Athens, Greece), Ourania Papaioannou, Theodoros Karampitsakos, Maria Anyfanti, Georgios Hillas, Kyriaki Tavernarakis, Argyris Tzouvelekis, Katerina Dimakou, Loukas Thanos

Effectiveness of anticoagulation with unfractionated heparin for acute pulmonary embolism
Arun C. R. Partridge (Calgary, Alberta, Canada), Paul Boiteau, James E. Andruchow, Andre Ferland, Eric Herget, Doug Helmerson, Jason Weatherald, Kevin Solverson
Late Breaking Abstract - Incidence, risk factors and thrombotic load of pulmonary embolism in patients hospitalized with COVID-19

Amina Bekki (València (Comunidad Valenciana), Spain), Alberto García-Ortega, Grace Oscullo, Pilar Calvillo, Raúl Méndez, José Daniel Gómez-Olivas, Carles Fonfría, Laura Trilles-Olasco, Enrique Zaldívar, Ana Ferrando, Gabriel Anguera, Andrés Briones-Gómez, Juan Pablo Reig-Mezquida, Laura Feced, Paula González-Jíménez, Soledad Reyes, Carlos F Muñoz-Núñez, Ainhoa Carreres, Ricardo Gil, Carmen Morata, Raquel López-Reyes, Luis Martí-Bonmati, Rosario Menéndez, Miguel Angel Martinez-Garcia

Discussion

All Speakers

Studio Amsterdam Session 280 14:45 - 16:15

Hot topics: Digital innovations in tuberculosis and implementation research in the era of COVID-19: collaborative activities between the WHO and ERS

Aims: To describe the consequences of COVID-19 for tuberculosis (TB) care worldwide; to review the available digital adherence technologies for TB; to evaluate the attitudes of patients and medical staff toward digital health in TB management; to discuss the potential of the Implementation Research for Digital Technologies and TB toolkit.

Disease(s): Respiratory infections

Method(s): Epidemiology, Public health

Tag(s): Translational, COVID, Digital health

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Radiologist, Scientist (basic, translational), Journalist

Chairs: Raquel Duarte (Porto, Portugal), Vitalii Poberezhets (Vinnysia, Ukraine)

14:45 Introduction

14:50 Patients' perspective
Tolibjon Karimov (Tajikistan), Syovush Gardaliev (Tajikistan)

14:55 Tuberculosis care during the COVID-19 pandemic
Giovanni Battista Migliori (Varese (VA), Italy)

15:10 Adherence to treatment for tuberculosis in the digital era
Helen Stagg (Edinburgh, United Kingdom)

15:25 The Implementation Research for Digital Technologies and TB (IR4DTB) toolkit
Corinne Merle (Geneva, Switzerland)

15:40 Future of eHealth in TB management: perspectives of patients and medical staff
Onno Akkerman (Groningen, Netherlands)

15:55 Discussion and Q&A
All Speakers

Studio Barcelona Session 281 14:45 - 16:15

Symposium: Precision medicine in asthma and COPD

Aims: To provide an update on the latest findings regarding precision medicine in asthma and chronic obstructive pulmonary disease (COPD).

Disease(s): Airway diseases

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

Tag(s): Translational

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

Chairs: Apostolos Bossios (Stockholm, Sweden), Louise Donnelly (London, United Kingdom)

14:45 Introduction

14:50 Patient’s perspective
Niamh Cullen (Ireland)
**Session 282**

**Journal session: The best of the European Respiratory Journal 2021**

**Aims:** To highlight the best original research and series in translational and basic science as well as airway disease published in the flagship journal of the European Respiratory Society; to highlight the contribution of the European Respiratory Journal (ERJ) to COVID-19 and respiratory infections; to highlight the highest impact guidelines, reviews and original contributions.

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

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

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs:** Thierry Troosters (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France)

**14:45** Introduction
Martin Kolb (Hamilton (ON), Canada)

**14:50** The best papers in the ERJ: translational Science
Silke Meiners (Sülfeld, Germany)

**15:05** The best papers in the ERJ: airways disease
Dave Singh (Manchester, United Kingdom)

**15:20** The best papers in the ERJ: clinical practice
Anh Tuan Dinh-Xuan (Paris, France)

**15:35** The best papers in the ERJ: respiratory infections and COVID-19
Daiana Stolz (Basel, Switzerland)

**15:50** Discussion and Q&A
All Speakers

**16:10** Conclusions
Martin Kolb (Hamilton (ON), Canada)

---

**Session 283**

**State of the art session: Respiratory critical care**

**Aims:** To describe the role of lung ultrasound in diagnosis of acute respiratory failure; to list sub-phenotypes of acute respiratory distress syndrome and their therapeutic consequences; to identify patients with acute respiratory distress syndrome that may benefit from steroid treatment and to discuss appropriate dosing of steroids in these patients; to discuss the diagnostic approach in patients with suspected pulmonary fungal infection and to propose a treatment strategy in patients with confirmed fungal infection.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs:** Marcus Schultz (Amsterdam, Netherlands), Sophia E. Schiza (Heraklion, Greece), Maxime Patout (Mont-Saint Aignan, France)
Studio Paris  
Session 284  
14:45 - 16:15

Lungs on fire: LoF Lung cancer?

Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

Disease(s): Thoracic oncology, Respiratory infections

Tag(s): Clinical

Target audience: Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Nurse, Paediatrician, Pathologist, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Medical Student

Chairs: Jan van Meerbeeck (Edgem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland), Torsten Gerriet Blum (Berlin, Germany)

Discussants: Sam Janes (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:45</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>14:50</td>
<td>Presentation of cases by the session facilitator</td>
<td>Sam Janes (London, United Kingdom)</td>
</tr>
<tr>
<td></td>
<td>Case 1 - Author: Joyce Chan, Hong Kong</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case 2 - Author: Mike Ralki, Belgium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case 3 - Author: Kathryn Ryan, United Kingdom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case 4 - Author: Tadeusz Marczewski, Germany</td>
<td></td>
</tr>
<tr>
<td>16:10</td>
<td>Session wrap-up</td>
<td></td>
</tr>
</tbody>
</table>

Channel 6  
Session 285  
14:45 - 16:15

Oral presentation: Innovation in thoracic surgery

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Thoracic oncology, Airway diseases

Method(s): Surgery, General respiratory patient care, Pulmonary function testing, Endoscopy and interventional pulmonology, Pulmonary rehabilitation, Imaging

Chairs: Marcello Migliore (Catania (CT), Italy), Kalliopi Athanassiadi (Athens, Greece)

OA2633 Introduction
Ventilatory efficiency for CO2 and rest end-tidal CO2 are similar predictors of post-operative pulmonary complications.

Kristian Brat (Brno, Czech Republic), Ivan Cundrle Jr, Milos Chobola, Ladislav Mitas, Jaroslav Ivicev, Teodor Horvath, Zdenek Merta, Marek Plutinsky, Monika Bratova, Michaela Heroutova, Pavla Kratochvilova, Pavel Homolka, Zdenek Chovanec, Michal Svoboda, Lyle Olson

Outcome of surgical and endoscopic lung volume reduction with valves in patients with severe lung emphysema: preliminary results from the national Lung Emphysema Registry (LE-R) in Germany

Pavlina Lenga (Berlin, Germany), Christian Grah, Christoph Ruuwe-Glösenkamp, Jacopo Sacconmamo, Jens Rueckert, Stephan Eggeling, Sven Glaser, Sylvie Kurz, Gunda Leschber, Stephan Eisenmann, Marcus Krüger, Bernd Schmidt, Paul Schneider, Stefan Andreas, Marc Hinterhaner, Joachim Pfannschmidt, Andreas Gebhardt, Franz Stanzel, Angelique Holland, Andreas Kirschbaumer, Birgit Becke, Olaf Scheget, Ralf-Harto Hübner


Francis-Edouard GRAVIER (Bois-Guillaume, France), Pauline Smondack, Guillaume Prieur, Clement Medrinal, Yann Combret, Jean-Francois Muir, Jean-Marc Baste, Antoine Cuvelier, Farouz Boujibar, Tristan Bonnevje

A meta-analysis assessing the prognostic value of neutrophil to lymphocyte ratio in lung metastasectomy for colorectal cancer

Dimitrios Magoulitis (Larisa, Greece), Maria Fergadi, Thanos Athanasiou, Evangelos Tatsios, Despoina Koukousaki, Kalliopi Athanassiadi

Deeper into the mediastinum: Topographical distribution and histological patterns of occult pN2 disease in 18FDG PET/CT node-negative NSCLC patients.

Dimitris Lioumpas (Athens, Greece), Athanasios Kleontas, Evangelos Georgios Fergadis, Stylianos Zaragkas, Ioannis Stamataris, Thrasyvoulos Michos, Nikolaos Eleptheroulis, Fragkiskos Tsagkarakis, Dimitrios Xekalakis, Kostantinos Bouboulis, Antonios Katsadonis, Periklis Tomos

Chest wall resection for lung cancer: A 12-year experience in a single center

Güntug Batihan (Izmir, Turkey), Ahmet Ucvet, Serkan Yazgan, Kenan Can Ceylan, Soner Gürsoy, Şeyda Örs Kaya

Direct to surgery treatment of suspected lung cancer – results from a UK lung cancer multidisciplinary team (MDT)

Manoj Marathe (Telford, United Kingdom), Tinaye Mandishona, Harmesh Moudgil, Nawaid Ahmad, Emma Crawford, Annabel Makan, Kootlalai Srinivasan

Randomized parallel arm study to compare intrapleural instillation of streptokinase versus saline wash in loculated empyema thoracis.

Shiv Kumar Verma (Ayodhya, India), Rajiv Garg

Thoracic surgery practice shift during the novel Coronavirus Disease 2019 (COVID19) pandemic

Georgia Hardavella (Athens, Greece), Georgia Hardavella, Ellissavet Babaliari, Ioannis Karampinis, Elena Bellou, Elli Keramida, Evaggelos Sepsas, Panagiots Demertzis

Late Breaking Abstract - Results of Surgery in Non-Small-Cell Lung Cancer– a retrospective study

Rita Alexandra Afonso da Costa (Valongo, Portugal), Fatima Aires, José Máximo, João Maciel, Margarida Marques, Pedro Fernandes, Paulo Pinho

Discussion

All Speakers

15:30-16:15
INDUSTRY SKILLS LAB WORKSHOP

Channel 1  Session 287  16:00 - 18:00

Language session: Russian programme 2021
Sarcoidosis today: from old truths to new problems (a joint ERS/RRS/ARSRM session)

Aims: To discuss the diagnosis and treatment of sarcoidosis in different countries; to consider the effectiveness of minimally invasive and image-based diagnostics; to present the recommendations of the Russian Respiratory Society for the diagnosis and treatment of sarcoidosis.

Disease(s): Interstitial lung diseases

Method(s): Endoscopy and interventional pulmonology Epidemiology Imaging

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Radiologist, Scientist (basic, translational), Respiratory therapist
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>16:05</td>
<td>Sarcoidosis as a multidisciplinary problem</td>
<td>Daniel Culver (Cleveland, United States of America)</td>
</tr>
<tr>
<td>16:20</td>
<td>Image-based diagnosis of sarcoidosis</td>
<td>Igor Tyurin (Moscow, Russian Federation)</td>
</tr>
<tr>
<td>16:35</td>
<td>Quality of life and fatigue in sarcoidosis</td>
<td>Marjolein Drent (Ede, Netherlands)</td>
</tr>
<tr>
<td>16:50</td>
<td>Minimally invasive diagnosis of sarcoidosis</td>
<td>Ilya Sivokozov (Moscow, Russian Federation)</td>
</tr>
<tr>
<td>17:05</td>
<td>The problem of fibrosis in sarcoidosis</td>
<td>Athol Wells (London, United Kingdom)</td>
</tr>
<tr>
<td>17:20</td>
<td>Treatment of sarcoidosis: clinical guidelines of the Russian Respiratory Society</td>
<td>Alexander Vizel (Kazan (Republic of Tatarstan), Russian Federation)</td>
</tr>
<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Studio Amsterdam** Session 288  16:15 - 16:30
Breakout room: Breakout room: Hot topics, Digital innovations in tuberculosis and implementation research in the era of COVID-19: collaborative activities between the WHO and ERS

**Chairs**: Aurélie Crabbé (Ghent, Belgium), Giovanni Battista Migliori (Varese (VA), Italy), Helen Stagg (Edinburgh, United Kingdom), Corinne Merle (Geneva, Switzerland), Onno Akkerman (Groningen, Netherlands)

**Studio Barcelona** Session 289  16:15 - 16:30
Breakout room: Breakout room: Symposium, Precision medicine in asthma and COPD

**Chairs**: Tommy Palai (Gaborone, Botswana), Niamh Cullen (, Ireland), Richard Costello (Dublin 9, Ireland), Daiana Stolz (Basel, Switzerland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Vanessa M. McDonald (Newcastle (NSW), Australia)

**Studio London** Session 290  16:15 - 16:30
Breakout room: Breakout room: Journal session, The best of the European Respiratory Journal 2021

**Chairs**: Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Martin Kolb (Hamilton (ON), Canada), Silke Meiners (Sülfeld, Germany), Dave Singh (Manchester, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France), Daiana Stolz (Basel, Switzerland)

**Studio Munich** Session 291  16:15 - 16:30
Breakout room: Breakout room: State of the art session, Respiratory critical care

**Chairs**: Sarang Patil (Dhule (Maharashtra), India), Pieter Roel Tuinman (Amsterdam, Netherlands), Lorraine Ware (Nashville, United States of America), Jesus Villar (Las Palmas de Gran Canaria, Spain), Frank Van de Veerdonk (Nijmegen, Netherlands)

**Studio Paris** Session 292  16:15 - 16:30
Breakout room: Breakout room: Lungs on fire, LoF Lung cancer?

**Chairs**: Lucia Carolina Viola Muñoz (Bogotá, Colombia), Sam Janes (London, United Kingdom)

**Channel 2** Session 293  16:30 - 18:00
Oral presentation: Highlights in COVID-19 diagnosis and treatment

**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
**Disease(s):** Respiratory critical care, Airway diseases, Pulmonary vascular diseases  
**Method(s):** General respiratory patient care, Respiratory intensive care, Public health, Imaging, Pulmonary rehabilitation, Physiology, Cell and molecular biology  
**Tag(s):** COVID  
**Chairs:** Nicoletta R. Morelli (Den Haag, Netherlands), David M. G. Halpin (Exeter, United Kingdom)  

OA2657  **Introduction**

OA2658  **Worsening of gas exchange parameters at high FiO2 in COVID-19: misleading or informative?**  
Federico Raimondi (Bergamo, Italy), Luca Novelli, Gianmariano Marchesi, Ivano Riva, Lorenzo Stephan Grazioli, Chiara Allegri, Roberta Bizo, Roberta Trapasso, Mariangela Amoroso, Marisa Anelli, Chiara Galimberti, Fabrizio Fabretti, Ferdinando Luca Lorini, Fabiano Di Marco

OA2659  **Do hospitalized COVID-19 patients have endothelial vascular dysfunction? A cohort study**  
MURILO OLIVEIRA (São Carlos, Brazil), Guilherme Back, Cassia Goulart, Bianca Domingos, Ross Arena, Audrey Borghi-Silva

OA2660  **Inhibition by umifenovir is broadly effective against coronaviruses**  
Irina LENEVA (Moscow, Russian Federation), Evgeny Faizuloev, Nadezhda Kartashova, Anastasya Gracheva, Ekaterina Korchevaya, Artem Poromov, Georgiy Ignatyev, Victor Volok, Liubov Kozlovskaia, Svetlana Loginova, Veronika Shchukina, Ravil Khamitov

OA2661  **Experience of using Janus kinase inhibitors in COVID-19**  
Tatiana Luchnikova (Blagoveschensk (Amur Oblast), Russian Federation), Olga Prikhodko, Kristina Fesyun

OA2662  **Predictors of negative first SARS-CoV-2 PCR despite final diagnosis of COVID-19 and association with outcome**  
Thomas Gilles (Bobigny, France), Jean Baptiste Lascarrou, Gwenhael Colin, Aurélie Le Thuaut, Nicolas Serck, Mickael Ohana, Bertrand Sauneuf, Guillaume Geri, Jean Baptiste Mesland, Gaetane Ribeyre, Claire Hussenet, Anne Sophie Boureau

OA2663  **COVID19: a retrospective cohort study in Bradford with a focus on ethnicity**  
Laura Smith (Bradford (West Yorkshire), United Kingdom), Nina Pattabhiraman, Georgina Appleyard, Ian Hutchesson, Katie Jackson, Shavanthi Wadanabny, Alexander Lister, Jumal Bhatti, Scott Hemphill, Krzysztof Peterlowicz, Dinesh Saralaya

OA2664  **Validation of the CFS score in patients with Covid-19 receiving only ward based care**  
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson, Elinor Edwards, Elizabeth Marsh, Catherine Moores, Esther Longden, Pierre Chinedu, Matt Ingram, Gemma Stonier, Ellen Tullo, Laura Mackay, Catherine Dotchin, Amaani Hussain, Samuel Dale, Sarah Manning, Lindsey Dew, Thomas Ross, Leyla Wamous, Sophia Oxenburgh, Declan Murphy, Richard Gavin, Leah Taylor, Sarah Welsh, Caitlin Carolan, April Donne, Nicholas Moss, Josephine Gwinnell, Fiona Starkie, Robert Johnston, James Dunbars, Johanna Jones, Kristen Davies, Richard Anderson, Peter Ireland

OA2665  **High pulse dose steroids in Severe COVID-19 pneumonitis refractory hypoxemia to dexamethasone**  
Noëlia Khalil (Oranjestad, Aruba), John Kileci, Selene Kock

OA2666  **Late Breaking Abstract - Direct antivirals working against the novel coronavirus: azithromycin (DAWn-AZITHRO), a randomized, multicenter, open-label, adaptive, proof of concept clinical trial**  
Iwein Gyselinck (Leuven, Belgium), Robin Vos, Laurens Liesenborghs, Peter Verhamme, Wim Janssens

OA2667  **Discussion**  
All Speakers

**Channel 3**  
**Session 294**  
**16:30 - 18:00**

**Oral presentation: Monitoring of lung disease and CFTR function in children with cystic fibrosis**  
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.  
**Disease(s):** Airway diseases  
**Method(s):** Pulmonary function testing, Physiology, Epidemiology, Imaging  
**Chairs:** Jane C. Davies (London, United Kingdom), Simon Y. Gräber (Heidelberg, Germany)  

OA2668  **Introduction**

OA2669  **Measuring CFTR function in respiratory epithelial cell cultures: step to individualize treatments in cystic fibrosis?**  
Joerg Grosse-Onnebrink (Münster, Germany), Vanessa Mete, Katharina Kolonko, Sandra Cindric, Simone Helms, Heymut Omran, Wolf Michael Weber
Cross-sectional and longitudinal comparison of N2 and SF6 multiple breath washout in infants and toddlers with CF and healthy controls

OA2670
Rikke Mulvad Sandvik (Hørsholm, Denmark), Marika Nathalie Schmidt, Jørgen Hovland Olsen, Sune Rubak, Anders Lindblad, Hanne Vebert Olesen, Frederik Buchvald, Taucja Pressler, Marianne Skov, Per Gustafsson, Kim Gjerum Nielsen

Longitudinal SF6 multiple breath washout in infants and toddlers with cystic fibrosis

OA2671
Rikke Mulvad Sandvik (Hørsholm, Denmark), Marika Nathalie Schmidt, Maja Valentin Kragh, Christian Voldby, Frederik Buchvald, Taucja Pressler, Anders Lindblad, Marianne Skov, Per Gustafsson, Kim Gjerum Nielsen

Changes in the Lung Clearance Index outside 15% are clinically relevant in children with cystic fibrosis

OA2672
Lucy Perrem (Toronto (ON), Canada), Sanja Stanojevic, Stephanie Davis, Don B Sanders, Renee Jensen, Michelle Shaw, Melinda Solomon, Hartmut Grasemann, Valerie Waters, Neil Sweezey, Nancy Mcdonald, Julia Guido, Charles Clem, Felix Ratjen

Evolution of lung clearance index during the first year of life in cystic fibrosis

OA2673
Marc-Alexander Oestreich (Bern, Switzerland), Thuvarakha Manogaran, Bettina Frauchiger, Anne-Christianne Kentgens, Johanna Kurz, Philipp Latzin, Kathryn Ramsey

Natural Variability of Clinically Measured Lung Clearance Index in Children with Cystic Fibrosis

OA2674
Bettina Sarah Frauchiger (Bern, Switzerland), Kathryn Ramsey, Jakob Usemann, Elisabeth Kieninger, Carmen Casaula, Sophie Yannine, Daniel Sirtes, Ben Spycher, Alexander Moeller, Philipp Latzin

Change in functional lung MRI and multiple breath washout outcomes over one year in children with cystic fibrosis

OA2675
Christoph Corin Willers (Bern, Switzerland), Bettina S. Frauchiger, Enno Stranzinger, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Kathryn Ramsey, Philipp Latzin

Sensitive automated airway-artery method to monitor progression of CF airway disease

OA2676
Qianting Lv (Rotterdam, Netherlands), Rikke M. Sandvik, Kim G. Nielsen, Eleni-Rosalina Andrinopoulou, Leticia Gallardo-Estrella, Jean-Paul Charbonnier, Harm A.W.M. Tiddens

Evaluation of SnIII parameters as outcome measures of multiple breath washout (MBW) in preschool children with cystic fibrosis

OA2677
Marie-Pier Dumas (Toronto, Canada), Nicholas Karsli, Renee Jensen, Felix Ratjen

Late Breaking Abstract - Depression and anxiety in patients with cystic fibrosis before and during Covid 19 pandemic

OA2678
Kaltra Skenderaj (Parma, Italy), Valentina Fainardi, Silvia Dion, Susanna Esposito, Giovanna Pisi

Discussion

OA2679
All Speakers
Pulmonary airway resistance variability in normal biologic quality control subjects among pulmonary function testing systems across British Columbia.
Carl D. Mottram (Rochester, United States of America), Theresa Mccaskill, Jeremy Road, Navdeep Rakhra

Do bacterial/viral filters impact quality assurance verification of ultrasonic spirometers?
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvester

Breath detection algorithms effect lung function outcomes
Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreich, Bettina Frauchiger, Philipp Latzin, Kathryn Ramsey

Real-world application of Spirometry Quality Control Deep-Learning Algorithm
Sanja Stanojevic (Halifax (NS), Canada), Pippa Powell, Graham Hall, Marko Topalovic, Nilakash Das, Kevin Ray, Felix Ratjen, Renee Jensen, Carlos Jimenez-Ruiz, Carmen Hernandez, Filip Burgos, Wim Janssens

Use of artificial intelligence for improving quality control of oscillimetry
Chiara Veneroni (Milano (MI), Italy), Andrea Acciarito, Pasquale Pompilio, Alessandro Gobbi, Raffaele Dellacà

Late Breaking Abstract - Effects of respiratory muscle training on quality of life, physical function, and psychological state in Post-COVID Syndrome
Tamara Del Corral Nuñez-Flores (Madrid, Spain), Raúl Fabero-Garrido, Gustavo Plaza-Manzano, César Fernández-De-Las-Peñas, María José Diaz-Arribas, Ibai López-De-Uralde-Villanueva

Discussion
All Speakers

Oral presentation: Cellular and molecular involvement in lung injury and repair

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
This session includes the Best Abstract for Assembly 3 - Basic and translational sciences, entitled "A comprehensive guide to pulmonary mesenchymal populations in the healthy and IPF lung"

Disease(s): Airway diseases  Respiratory critical care  Interstitial lung diseases

Method(s): Cell and molecular biology  General respiratory patient care  Respiratory intensive care

Chairs: Agnes Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)

LSC - 2021 - A comprehensive guide to pulmonary mesenchymal populations in the healthy and IPF lung.
Simon Coyle Rowan (Galway, Ireland), Xue Liu (xue.liu@cshs.org / Cedars-Sinai Medical Centre, Los Angeles), Yizhou Wang (yizhou.wang@cshs.org / Cedars-Sinai Medical Centre, Los Angeles), Paul W. Noble (paul.noble@cshs.org / Cedars-Sinai Medical Centre, Los Angeles), Dianhua Jiang (dianhua.jiang@cshs.org / Cedars-Sinai Medical Centre, Los Angeles)

Comparison between Bronchoalveolar Lavage (BAL) and blood-derived microvesicles in lung diseases
Erica Bazzan (Padova (PD), Italy), Mariaenrica Tinè, Claudia Maria Radu, Davide Biondini, Marco Damin, Umberto Semenzato, Alvise Casara, Paolo Simioni, Manuel G. Cosio, Marina Saetta

MSC extracellular vesicles modulate human macrophages in ARDS towards anti-inflammatory phenotype via transfer of miRNA181-a and PTEN-pSTAT5-SOCS1 signalling
Yue Su (Belfast (Northern Ireland), United Kingdom), David Simpson, Cecilia O’Kane, Derek Brazil, Anna Krasnodembskaya

Extracellular vesicles produced by airway epithelial cells in response to oxidative stress contain microRNAs associated with cellular senescence
Justine Devulder (London, United Kingdom), Jonathan, R Baker, Louise, E Donnelly, Peter, J Barnes

The NLRP3-inflammasome-caspase-1 pathway is upregulated in idiopathic pulmonary fibrosis and acute exacerbations and is inducible by apoptotic A549 cells
Benjamin Seeliger (Hannover, Germany), Benedikt Jäger, Oliver Terwolbeck, Tobias Welte, Christian Bode, Antje Prasse
### Chronic WNT/β-catenin signaling impairs mitochondrial function in lung epithelial cells

Qianjiang Hu (München, Germany), Meshal Ansari, Ilias Angelidis, Fabian Theis, Herbert Schiller, Melanie Königshoff, Mareike Lehmann

### D-dopachrome tautomerase contributes to lung epithelial repair via ACKR3-dependent Akt signaling

Shanshan Song (Groningue (GR), Netherlands), Bin Liu, Habibie Habibie, Jelle Van Den Bor, Martine J Smit, Reinoud Gosens, Xinhui Wu, Corry-Anke Brandsma, Robbert. H Cool, Hidde J. Haisma, Gerrit J. Poelarends, Barbro N. Melgert

### Mast Cell Tryptase Enhances Wound-Healing via Protease-Activated Receptor-2 Dependent Migration in Human Bronchial Epithelial Cells

Sofia Mogren (Malmö, Sweden), Frida Berlin, Sangeetha Ramu, Asger Sverrild, Celeste Porshjerg, Lena Uller, Cecilia Andersson

### Late Breaking Abstract - The inflammasome cluster is linked with airway NETosis in COPD

Madeleine Ingelsten (Mölndal, Sweden), Hoda Sharifian, Magdalena Rhedin, Johan Jirholt, Sofia Lundin, Lina Odqvist, Sofia Winslow, Andrew Higham, Thomas Southworth, Dave Singh, Alix Berton, Zala Jevnikar

#### Discussion

All Speakers

---

### 16:30-17:15

**INDUSTRY SKILLS LAB WORKSHOP**

SEE PAGE 1

#### Studio Amsterdam

**Session 298**

**16:30 - 18:00**

**Symposium: New insights into nontuberculous mycobacteria disease: from diagnosis to treatment**

Nontuberculous mycobacteria infections are becoming an increasing challenge worldwide. Improved awareness and knowledge of current epidemiology, diagnosis and treatment options are a priority.

**Aims:** To increase awareness and knowledge of the epidemiology and diagnosis of nontuberculous mycobacteria (NTM) infections and the treatment options.

**Disease(s):** Respiratory infections

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist

**Chairs:** Raquel Duarte (Porto, Portugal), Vitalii Poberezhts (Vinnytsia, Ukraine)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>16:35</td>
<td>NTM: an overview of changing epidemiology</td>
</tr>
<tr>
<td>16:50</td>
<td>The challenges of diagnosing NTM</td>
</tr>
<tr>
<td>17:05</td>
<td>The highs and lows of guideline-based therapy for NTM: a case review</td>
</tr>
<tr>
<td>17:20</td>
<td>Novel NTM treatments and approaches, repurposed to bacteriophages</td>
</tr>
<tr>
<td>17:35</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

---

199  05.09.2021
Symposium: Pharmacology of lung immune responses: which pathways to target!

**Aims**: To explain the complexity of lung immune responses and its contribution to airway diseases such as asthma and chronic obstructive pulmonary disease (COPD); to describe pharmacological pathways that can modify these responses.

**Disease(s)**: Airway diseases

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

**Tag(s)**: Translational

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Pathologist, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs**: Apostolos Bossios (Stockholm, Sweden), Louise Donnelly (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Session 299</td>
<td>Introduction</td>
</tr>
<tr>
<td>16:35</td>
<td>Session 299</td>
<td>Overview of innate and adaptive immune responses in the airways  Ken Bracke (Ghent, Belgium)</td>
</tr>
<tr>
<td>16:50</td>
<td>Session 299</td>
<td>Targeting traits in asthma and COPD  Anneke Ten Brinke (Leeuwarden, Netherlands)</td>
</tr>
<tr>
<td>17:05</td>
<td>Session 299</td>
<td>The yin and yang of immunosuppression with inhaled corticosteroids in asthma and COPD  Peter J. Barnes (London, United Kingdom)</td>
</tr>
<tr>
<td>17:20</td>
<td>Session 299</td>
<td>Macrolides targeting multiple immune pathways in asthma and COPD  Lena Uller (Lund, Sweden)</td>
</tr>
<tr>
<td>17:35</td>
<td>Session 299</td>
<td>Discussion and Q&amp;A  All Speakers</td>
</tr>
</tbody>
</table>

Journal session: The "State of the Art" in the diagnosis of bacterial, mycobacterial, and fungal pneumonias

**Aims**: To explore the current tools available to respiratory clinicians for diagnosis of both community-acquired and healthcare-associated pneumonia; to explore the spectrum of disease seen in healthy and immunocompromised hosts.

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

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, General practitioner, Respiratory critical care physician

**Chairs**: Thierry Troosters (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 300</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Session 300</td>
<td>Introduction  Jeffrey Drazen (Waltham, United States of America)</td>
</tr>
<tr>
<td>16:35</td>
<td>Session 300</td>
<td>Clinical pneumonia: how do I make a specific diagnosis?  Lindsey Baden (Boston, United States of America)</td>
</tr>
<tr>
<td>16:50</td>
<td>Session 300</td>
<td>Pneumonia diagnostics in high resource settings  Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>17:05</td>
<td>Session 300</td>
<td>Pneumonia diagnostics in under-resourced environments  Kathryn Maitland (Kilifi, Kenya)</td>
</tr>
<tr>
<td>17:20</td>
<td>Session 300</td>
<td>Discussion and Q&amp;A  All Speakers</td>
</tr>
<tr>
<td>17:55</td>
<td>Session 300</td>
<td>Conclusions  Jeffrey Drazen (Waltham, United States of America)</td>
</tr>
</tbody>
</table>

Lungs on fire: LoF Respiratory critical care / Sleep and Breathing disorders
Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

Diseases: Respiratory critical care, Sleep and breathing disorders

Target audience: Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Nurse, Physiologist, Medical Student

Chairs: Marcus Schultz (Amsterdam, Netherlands), Sophia E. Schiza (Heraklion, Greece), Maxime Patout (Mont-Saint Aignan, France)

Discussants: Marieke L. Duiverman (Groningen, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>16:35</td>
<td>Presentation of cases by the session facilitator</td>
</tr>
<tr>
<td></td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
</tr>
<tr>
<td></td>
<td>Case 1 - Author: Kristen A. Mooij-Kalverda, Netherlands</td>
</tr>
<tr>
<td></td>
<td>Case 2 - Author: Syeda Nafisa, United Kingdom</td>
</tr>
<tr>
<td></td>
<td>Case 3 - Author: Kathryn Hendrickson, United States of America</td>
</tr>
<tr>
<td></td>
<td>Case 4 - Author: Mariana Ramos Martins, Portugal</td>
</tr>
<tr>
<td>17:55</td>
<td>Session wrap-up</td>
</tr>
</tbody>
</table>

**Grand round: Lung cancer grand round**

Aims: To test the clinical knowledge of participants about thoracic oncology; to allow a unique opportunity for interactive discussions with the case presenters and a multidisciplinary board panel.

Diseases: Thoracic oncology

Method(s): Endoscopy and interventional pulmonology, Imaging, Surgery

Tags: Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland), Torsten Gerriet Blum (Berlin, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>16:35</td>
<td>Severe autoimmune syndrome in a patient with a mediastinal mass</td>
</tr>
<tr>
<td></td>
<td>Jo Raskin (Kessel-Lo, Belgium)</td>
</tr>
<tr>
<td>16:55</td>
<td>Stage IV adenocarcinoma of the lung with classical epidermal growth factor receptor mutation and a thought-provoking course</td>
</tr>
<tr>
<td></td>
<td>Amanda Tufman (München, Germany)</td>
</tr>
<tr>
<td>17:15</td>
<td>Combination immunotherapy in mesothelioma: managing expectations and new toxicities</td>
</tr>
<tr>
<td></td>
<td>Selina Tsim (Glasgow (Glasgow), United Kingdom)</td>
</tr>
<tr>
<td>17:35</td>
<td>Re-challenge of immunotherapy in a lung cancer patient</td>
</tr>
<tr>
<td></td>
<td>Anne-Claire Toffart (Pontcharra, France)</td>
</tr>
<tr>
<td>17:55</td>
<td>Session wrap-up</td>
</tr>
</tbody>
</table>

**Oral presentation: Innovation in respiratory training**

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
**Introduction**

**OA2738**

**OA2739**

COPD.Pal: Using a person-based approach to develop a self-management app for people with COPD
Sarah Rees (SA14 QF, United Kingdom), Liam Knox, Rachel Gemine, Sarah Bowen, Phil Groom, David Taylor, Ian Bond, Keir Lewis

**OA2740**

Children’s interstitial lung diseases (chILD) – an area of unmet educational need?
Elise Weir (Glasgow (Glasgow), United Kingdom), Tugba Sismanlar Eyuboglu, Matthias Griese, Nicolaus Schwerk, Deborah Snijders, Steve Cunningham

**OA2741**

The effect of COVID-19 on the respiratory workforce and trainee education
Sam Bartlett-Pestell (London, United Kingdom), Annakann Navaratnam, Ini Adelaja, Martin Allen

**OA2742**

Audience response systems aid confidence in managing hospitalised patients with pneumonia online
Amir Hakim (London, United Kingdom), William Ricketts

**OA2743**

Digital medical conference attendees’ reasons for attendance and ideas for conference improvement: results of an international survey
Sai Ram (Bern, Switzerland), Carine Pannetier, Nathalie Tabin, Richard Costello, Daiana Stolz, Kevin Eva, Sören Huwendiek

**OA2744**

Respiratory upskilling training sessions for redeployed clinical staff in the COVID-19 pandemic
Nicola Smallcombe (London, United Kingdom), Annelies Sweeney, Filitsa Allwright, Rachel Crisp, Helen Mills, Rachel Gill, William Ricketts

**OA2745**

Late Breaking Abstract - Survey on pulmonologists’ clinical life during the COVID-19 pandemic
Pia Iben Pietersen (Odense NØ, Denmark), Lars Konge, Rasmus Jørgensen, Amy Farr, Christian Laursen

**Discussion**

All Speakers
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:00 - 18:15</td>
<td>Breakout room: Grand round, Lung cancer grand round</td>
</tr>
<tr>
<td>Chairs</td>
<td>Lucia Carolina Viola Muñoz (Bogotá, Colombia), Jo Raskin (Kessel-Lo, Belgium), Amanda Tufman (München, Germany), Selina Tsim (Glasgow (Glasgow), United Kingdom), Anne-Claire Toffart (Pontcharra, France)</td>
</tr>
<tr>
<td>18:15-19:45</td>
<td>INDUSTRY VIRTUAL SYMPOSIUM</td>
</tr>
<tr>
<td>20:00-21:30</td>
<td>INDUSTRY VIRTUAL SYMPOSIUM</td>
</tr>
</tbody>
</table>
Language session: Chinese programme 2021
A joint ERS/CTS session

Aims: To present and discuss the new advances in respiratory medicine presented by experienced speakers from the European Respiratory Society leadership and Chinese leaders in respiratory medicine; to present an overview of hot respiratory disease topics in Europe and China.

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

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

Chairs: Jieming Qu (Shanghai, China), Nicolas Roche (Paris, France)

09:30 - 11:30

09:30
Introduction

09:35
Seroprevalence and humoral immune durability of anti-SARS-CoV-2 antibodies: a longitudinal, population-level, cross-sectional study in Wuhan, China
Chen Wang (Beijing, China)

09:50
Long-COVID: What will be the legacy from the pandemic?
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

10:05
The role of epithelium-dependent fibroblast activation in pulmonary fibrosis
Wen Ning (Tianjin, China)

10:20
Interstitial lung diseases and COVID-19: myths and reality
Katerina Antoniou (Heraklion, Greece)

10:35
Radiomics in lung cancer: progress and challenges
Weimin Li (Chengdu (Sichuan), China)

10:50
Winners and losers: Managing chronic respiratory patients during the COVID-19 pandemic
Joanna Chorostowska-Wynimko (Warsaw, Poland)

11:05
Discussion and Q&A
All Speakers

Channel 2
Session 325
09:30 - 11:00

Oral presentation: Pearls in immunology, outcome studies and clinical trials in asthma, alpha-1 antitrypsin deficiency and COPD

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases

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

Chairs: Marco Idzko (Wien, Austria), Christian Taube (Essen, Germany)

OA2830
Introduction

OA2831
Follicular T helper and Breg cell balance in severe allergic asthma before and after omalizumab therapy
Laura Bergantini (siena, Italy), Miriana D'Alessandro, Paolo Cameli, Behar Cekorja, Elena Bargagli
The expression of IL17RA (the common subunit of IL-17A and IL-25 receptor) on sputum macrophages in asthma patients
Patrycja Nejman-Gryz (Warszawa, Poland), Magdalena Paplińska-Goryca, Małgorzata Probuszcz, Elżbieta Grabczak, Joanna Hermanowicz-Salomon, Rafał Krenke

IL-4Ra signaling is required for thymic stromal lymphopoietin (TSLP)-induced type 2 airway inflammation
Subhashini Srivatsan (Tarrytown, United States of America), George Scott, Dylan Birchard, Jeanne Allinne, Li-Hong Ben, Andrew J Murphy, Matthew A Sleeman, Jamie M Orenge

Clinical consequences and longitudinal outcomes in PiMZ heterozygous α1-antitrypsin deficiency smokers from SPIROMICS
Igor Barjaktarevic (Los Angeles, United States of America), Ani Manichaikul, Daniela Markovic, Roxana Hixson, Christopher Cooper, Russell Buhr, R.G. Barr, Jeffrey Curtis, M. Bradley Drummond, Spyridon Fortis, Gregory Hawkins, Meilan Han, Eric Hoffman, Victor Kim, Xingnan Li, Fernando Martinez, Robert Paine Iii, Cheryl Pirozzi, Donald Tashkin, James Wells, Prescott Woodruff, Deborah Meyers, Eugene Bleeecker, Victor Ortega

A Reduced Frequency of GARPFoxp3 T Regulatory Cells in COPD Patients is Associated with Emphysema Phenotype
Jia Hou (Yinchuan, China), Xiangguo Duan, Hui Li, Xiwei Zheng

Impact of severe exacerbations on lung function in dupilumab-treated patients: LIBERTY ASTHMA QUEST
Alberto Papi (Ferrara, Italy), Kenneth R. Chapman, Mario Castro, Daniel J. Jackson, Nadia Daizadeh, Nami Pandit-Abid, Yamo Deniz, Paul Rowe, Benjamin Ortiz

Dupilumab efficacy in patients with GINA-defined type 2 asthma: TRAVERSE
Eric D. Bateman (Cape Town, South Africa), Ian D. Pavord, William W. Busse, Nadia Daizadeh, Yamo Deniz, Paul Rowe, Juby A. Jacob-Nara, Rebecca Gall, Nami Pandit-Abid, Benjamin Ortiz

Late Breaking Abstract - Type 2 biomarker expression (FeNO and blood eosinophils) is higher in severe adult-onset than in severe early-onset asthma
Marek Lommatzsch (Rostock, Germany), Maria Klein, Paul Stoll, Johann Christian Virchow

The expression of IL17RA (the common subunit of IL-17A and IL-25 receptor) on sputum macrophages in asthma patients
Patrycja Nejman-Gryz (Warszawa, Poland), Magdalena Paplińska-Goryca, Małgorzata Probuszcz, Elżbieta Grabczak, Joanna Hermanowicz-Salomon, Rafał Krenke

IL-4Ra signaling is required for thymic stromal lymphopoietin (TSLP)-induced type 2 airway inflammation
Subhashini Srivatsan (Tarrytown, United States of America), George Scott, Dylan Birchard, Jeanne Allinne, Li-Hong Ben, Andrew J Murphy, Matthew A Sleeman, Jamie M Orenge

Clinical consequences and longitudinal outcomes in PiMZ heterozygous α1-antitrypsin deficiency smokers from SPIROMICS
Igor Barjaktarevic (Los Angeles, United States of America), Ani Manichaikul, Daniela Markovic, Roxana Hixson, Christopher Cooper, Russell Buhr, R.G. Barr, Jeffrey Curtis, M. Bradley Drummond, Spyridon Fortis, Gregory Hawkins, Meilan Han, Eric Hoffman, Victor Kim, Xingnan Li, Fernando Martinez, Robert Paine Iii, Cheryl Pirozzi, Donald Tashkin, James Wells, Prescott Woodruff, Deborah Meyers, Eugene Bleeecker, Victor Ortega

A Reduced Frequency of GARPFoxp3 T Regulatory Cells in COPD Patients is Associated with Emphysema Phenotype
Jia Hou (Yinchuan, China), Xiangguo Duan, Hui Li, Xiwei Zheng

Impact of severe exacerbations on lung function in dupilumab-treated patients: LIBERTY ASTHMA QUEST
Alberto Papi (Ferrara, Italy), Kenneth R. Chapman, Mario Castro, Daniel J. Jackson, Nadia Daizadeh, Nami Pandit-Abid, Yamo Deniz, Paul Rowe, Benjamin Ortiz

Dupilumab efficacy in patients with GINA-defined type 2 asthma: TRAVERSE
Eric D. Bateman (Cape Town, South Africa), Ian D. Pavord, William W. Busse, Nadia Daizadeh, Yamo Deniz, Paul Rowe, Juby A. Jacob-Nara, Rebecca Gall, Nami Pandit-Abid, Benjamin Ortiz

Late Breaking Abstract - Type 2 biomarker expression (FeNO and blood eosinophils) is higher in severe adult-onset than in severe early-onset asthma
Marek Lommatzsch (Rostock, Germany), Maria Klein, Paul Stoll, Johann Christian Virchow

Discussion
All Speakers

Channel 3 Session 326 09:30 - 11:00
Oral presentation: Acute and chronic lung infections in children

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Method(s): General respiratory patient care  Public health  Pulmonary function testing  Epidemiology

Tag(s): COVID

Chairs: Marijke Proesmans (Leuven, Belgium), Stefan Unger (Edinburgh (Edinburgh), United Kingdom)

OA2840 Introduction

OA2841 Implementation of a Paediatric Bronchiectasis Severity Index (PBSI)
Naomi Parsons (Coventry, United Kingdom), Priti Kenia, Hollie Smith, Prasad Nagakumar

OA2842 Chronic wet cough in Australian children: societal costs and quality of life
Samantha Prime (Brisbane, Australia), Hannah Carter, Steven Mcphail, Helen Petsky, Anne Chang, Nicholas Graves, Julie Marchant

OA2843 Pseudomonas aeruginosa isolation in respiratory samples of children with neurological impairment- does it matter?
Kamini Jain (Birmingham (West Midlands), United Kingdom), Katie Wilkinson, Rebecca Devaney, Ben Elkington, Imad Ahmed, Helen Hickey, Louise Mogford, Amruth Karthik

OA2844 Pulmonary function in children previously treated with empyema
Pinar Ergenekon (Istanbul, Turkey), Mehmet Cihan Senturk, Yasemin Gokdemir, Cansu Yilmaz Yegit, Muruvvet Cenk, Mine Kalyoncu, Ayinur Guliyeva, Ayten Ceren Bakir, Gursu Kiyani, Fazilet Karakoc, Ela Erdem Eralp, Saniye Girit, Emine Atag, Seda Geylani Gulec, Bulent Karadag

OA2845 Palivizumab: Is it cost effective to extend the vaccination period for patients at risk of severe respiratory syncytial virus infection?
Gemma Wilson (Cambridge, United Kingdom), Louise Selby, Pravin Desai

OA2846 Severity Scores used in the assessment of Bronchiolitis: A systematic review
William Bedson (Liverpool, United Kingdom), Emma Wilkinson, Dan Hawcutt, Paul Menamara
Structured Light Plethysmography (SLP) in COVID-19 children: a focus on Multisystem Inflammatory Syndrome in Children (MIS-C)

Michele Ghezzi (Bergamo, Italy), Emma Longoni, Martina Pascuzzi, Francesca Riccaboni, Marco Ugo Sartorio, Andrea Farolfi, Michele Piazza, Laura Tenero, Giorgio Piacentini, Enza D’Auria, Gian Vincenzo Zuccotti

Widespread use of face masks and respiratory viral infections: the SARS-CoV-2 pandemic lesson

Luigi Matera (Rome, Italy), Raffaella Nenna, Antonella Frassanito, Laura Petrarca, Enrica Mancino, Greta Di Mattia, Domenico Paolo La Regina, Valentina Rizzo, Chiara Tonnarini, Fabio Midulla

Late Breaking Abstract - Impact of COVID-19 social distancing on viral infection in France: a delayed outbreak of RSV

Ralph Epaud (Creteil, France), Celine Delestrain, Kostas Danis, Isabelle Hau, Sylvie Behillil, Marie-Noëlle Billard, Leyla Kragten, Robert Cohen, Bont Louis

Discussion

All Speakers

Channel 4

Session 327

Oral presentation: Respiratory infections and bronchiectasis outcomes

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases

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

Tag(s): COVID

Chairs: Natalie Loren (Leuven, Belgium), Anthony De Soyza (Newcastle-upon-Tyne, United Kingdom)

RCT Abstract - Fast multiplex bacterial PCR in the bronchoalveolar lavage for antibiotic stewardship in hospitalized patients with pneumonia at risk for Gram negative bacteria infection—the randomized FLAGSHIP II Study

Andrei Darie (Basel, Switzerland), Nina Khanna, Kathleen Jahn, Michael Osthoff, Stefano Basetti, Mirjam Osthoff, Desiree Schumann, Werner Albrich, Martin Brutsche, Leticia Grize, Michael Tamam, Daiana Stolz

Quality of care in bronchiectasis using the European Respiratory Society Guidelines as a reference standard- data from the EMBARC registry

Pieter Goeminne (Bornem, Belgium), Pierre-Regis Burgel, Michal Shteinkeg, Eva Polverino, Charles Haworth, Michael Loebinger, Antoni Torres, Tobias Welte, Stuart Elborn, James D. Chalmers

Long term clinical outcomes of bronchiectasis in India: Data from the EMBARC/RRNI Indian Bronchiectasis Registry

Raja Dhar (Kolkata (West Bengal), India), Sheetu Singh, Deepak Talwar, Murali Mohan, Surya Kant Tripathi, Rajesh Swarnakar, Sonali Trivedi, Srinivas Rajagopala, George D’Souza, Arjun Padmanabhan, Archana Baburao, Pieter Goeminne, Megan Crichton, James D. Chalmers, Sneha Limaye, Sundee Malvi

Corticosteroids in severe pneumonia. A propensity score matching study based on real-life.

Adrian Cecatto (barcelona, Spain), Alessandro Russo, Enric Barbeta, Patricia Oscario, Giusy Tiseo, Albert Gabarrus, Pierluiggi Di Giannatia, Stefano Nogas, Francesco Mincichetti, Miquel Ferrer, Marco Falcone, Antoni Torres

Clinical decision making is improved by rapid multiplex-PCR in suspected lower respiratory tract infection after lung transplantation in a prospective cohort study

Benjamin Seeliger (Hannover, Germany), Moritz Z Kayser, Christina Valtin, Jan Fuge, Stefan Ziesing, Tobias Welte, Mathias W Pletz, Patrick Chhatwal, Jens Gottlieb

Serum heparan sulfate levels predict the etiology of acute exacerbations in COPD

Eleni Papakonstantinou (Basel, Switzerland), Meropi Karakiolaki, Leticia Grize, Michael Tamam, Daiana Stolz
### Oral presentation: New evidence from longitudinal COPD cohorts and other key studies

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  
Public health  
Pulmonary function testing

**Chairs:** Jennifer Quint (Wimbledon, United Kingdom), Giorgio Walter Canonica (Milano (MI), Italy)

<table>
<thead>
<tr>
<th>OA2862</th>
<th>Introduction</th>
</tr>
</thead>
</table>
| OA2863 | Persistent chronic cough and vitamin D deficiency  
Johnmary T. Arinze (Rotterdam, Netherlands), Katia M. C. Verhamme, Bruno Stricker, Guy G. Brusselle |
| OA2864 | Predictors of severe COVID-19 in COPD  
Caroline Stridsman (Luleå, Sweden), Lowie Vanfleteren, Jon R Konradsen, Sten Axelsson Fisk, Fredrik Nyberg, Christophe Pedroletti, Yvonne Sjöö, Jörgen Syk, Anne Lindberg, Alf Tunsäter, Ann Ekberg Jansson, Johanna Karlsson Sundbaumn |
| OA2865 | ICS withdrawal and rate of FEV1 decline in a primary care COPD population in England  
Hannah Whittaker (London, United Kingdom), Steven Kiddle, Ian Douglas, Kevin King, Jennifer Quint |
| OA2866 | An estimate of the European prevalence of COPD in 2050  
Adam Benjafield (Sydney, Australia), Daniela Tellez, Meredith Barrett, Rahul Gondalia, Carlos Nunez, Jadwiga Wedzicha, Atul Malhotra |
| OA2867 | Predictions of post-bronchodilator airflow obstruction by longitudinal asthma and wheeze patterns in middle-age  
Jennifer Perret (Melbourne (VIC), Australia), Don Vicendese, Koen Simons, Adrian Lowe, Caroline Lodge, Debbie Jarvis, Geza Benke, Adrian Bickerstaffe, Christine McDonald, Michael Abramson, E Hayden Walters, Cosetta Minelli, Shyamali Dharmage |
| OA2868 | Oral bacterial composition and low lung function in a general population  
Rajesh Shigdel (Bergen, Norway), Ane Johannessen, Cecilie Svanes, Francisco Gomez Real, Randi Jacobsen Bertelsen |
| OA2869 | Long-term air pollution and road traffic noise exposure and COPD: the Danish Nurse Cohort  
Shuo Liu (Copenhagen, Denmark), Shuo Liu, Youn-Hee Lim, Marie Pedersen, Jeanette T. Jørgensen, Heresh Amin, Rudi G.J. Wastendorp, Steffen Loft, Zorana J. Andersen |
| OA2870 | Forced Vital Capacity and Mortality in The BOLD Study: Preliminary Findings  
Emmanouil Bagkeris (London, United Kingdom), Octavia Mulherm, André Amaral, Peter Burney |
| OA2871 | Clinical characteristics, mortality rates and causes of death in non-exacerbating COPD patients. A longitudinal cohort analysis of UK primary care data  
Alexandra Lenoir (Munich, Germany), Hannah R Whittaker, Alicia Gayle, Deborah L Jarvis, Jennifer K Quint |
| OA2872 | Late Breaking Abstract - Pertussis incidence among older adults with asthma and COPD in South Korea  
Hyungwoo Kim (Seoul, Republic of Korea), Ju-Young Shin, Ju Hwan Kim, Jing Chen, Adrienne Guignard, Ahhyung Choi, Yunha Noh, Hee Jin Cheong, Yeon-Mok Oh, Sumitra Shantakumar |
| OA2873 | Discussion  
All Speakers |
Hot topics: Hot news from the pleura
Practice-changing research in pleural disease: how to apply the latest evidence

Aims: To provide an update on current evidence behind interventional and observational management of pneumothorax, review randomised data on ambulatory care, and improve patient selection for individual interventions; to critically review data to improve practice regarding up-to-date management of patients clear of infection, risk stratification, microbiology and interventions for failing patients; to appraise the evidence for non-chemotherapy management of mesothelioma, including immunotherapy and surgery, provided by recent randomised trial results; to review best practice for management of malignant pleural effusion, patient choice, intervention selection and complication management.

Disease(s): Respiratory infections, Thoracic oncology
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Imaging
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland)

09:30 Introduction
09:35 Pneumothorax: rethinking the intervention paradigm
Rob Hallifax (Oxford (Oxfordshire), United Kingdom)
09:50 Pleural infection: phenotyping for optimal treatment selection
Najib M. Rahman (Oxford, United Kingdom)
10:05 Patient's perspective
Tim Cook (, United Kingdom)
10:10 Treating mesothelioma in 2021: what is the role of surgery and immunotherapy?
Anna Bibby (Bristol (Avon), United Kingdom)
10:25 Optimal management of symptomatic malignant pleural effusions: individualised care
Elżbieta Magdalena Grabczak (Warszawa, Poland)
10:40 Discussion and Q&A
All Speakers
### Disease(s) and Method(s)

- **Disease(s):** Airway diseases, Respiratory infections
- **Method(s):** General respiratory patient care, Public health, Pulmonary function testing

### Tag(s)
- Clinical, COVID, Digital health

### Target audience
- Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

### Chairs
- Martijn A. Spruit (Horn, Netherlands), Pierantonio Laveneziana (Paris, France), Joana Cruz (Leiria, Portugal)

### Schedule

**Studio Munich**

*State of the art session: Pulmonary vascular diseases*

**Aims:** To provide insight into specific groups of patients with pulmonary hypertension.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs:** Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>09:35</td>
<td>Patient's perspective</td>
</tr>
<tr>
<td>09:40</td>
<td>Airway diseases: how to safely investigate respiratory symptoms in the post-COVID era</td>
</tr>
<tr>
<td>09:55</td>
<td>Evidence for and practical implementation of telephone, video-call and on-line consultations</td>
</tr>
<tr>
<td>10:10</td>
<td>Effectiveness, safety and delivery of pulmonary rehabilitation</td>
</tr>
<tr>
<td>10:25</td>
<td>Maintaining care for high-risk patients with cancer in a pandemic</td>
</tr>
<tr>
<td>10:40</td>
<td>Discussion and Q&amp;A</td>
</tr>
</tbody>
</table>

**Studio Paris**

*Clinical trials session: ALERT: Asthma in adult, in children and ILDs*

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

**Disease(s):** Airway diseases, Interstitial lung diseases

**Method(s):** Pulmonary rehabilitation, General respiratory patient care

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>09:35</td>
<td>Home treatment of pulmonary embolism</td>
</tr>
<tr>
<td>09:50</td>
<td>Differential diagnosis of pre- and post-capillary pulmonary hypertension: the OPTICS study and other strategies</td>
</tr>
<tr>
<td>10:05</td>
<td>Low DLCO in pulmonary vascular diseases</td>
</tr>
<tr>
<td>10:20</td>
<td>Portopulmonary hypertension</td>
</tr>
<tr>
<td>10:35</td>
<td>Discussion and Q&amp;A</td>
</tr>
</tbody>
</table>
**Chairs**: Richard Costello (Dublin 9, Ireland), Daiana Stolz (Basel, Switzerland)

**Discussants**: Celeste Michala Porsbjerg (Copenhagen, Denmark), Vincent Cottin (Lyon, France)

**RCT2898** Introduction

**RCT2899** Reducing Asthma Attacks in Children using Exhaled Nitric Oxide as a biomarker to inform treatment strategy: a randomised trial (RAACENO)

Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Seonaidh Cotton, Jess Wood, Victoria Bell, Amalraj Raja, Neil Scott, Shona Fielding, Graeme Maclellan, Erol Gaillard, Marielle Pijnenburg, Mike Thomas, David Price

**RCT2900** Late Breaking Abstract - Phase 2 trial evaluating the effects of dexpramipexole on blood eosinophils, lung function, and airway biomarkers in eosinophilic asthma

Salman Siddiqui (Leicester, United Kingdom), Michael Bozik, Donald Archibald, Steven Dworetzky, James Mather, Randall Killingsworth, Sergej Ochkur, Élisabeth Jacobsen, Reynold Panettieri, Calman Prussin

**RCT2901** Breathing exercises for specialist care asthma patients: a multicentre randomised trial

Karen Hjerrild Andreassen (Næstved, Denmark), Søren T Skou, Charlotte Suppli Ulrik, Hanne Madsen, Kirsten Sidenius, Celeste Porsbjerg, Karin Dahl Assing, Jannie Bloch-Nielsen, Mike Thomas, Uffe Bodtger

**RCT2902** Wrap-up by discussant and discussion

Celeste Michala Porsbjerg (Copenhagen, Denmark)

**RCT2903** RCT Abstract - Cyclophosphamide added to glucocorticoids in acute exacerbation of idiopathic pulmonary fibrosis (EXAFIP): a randomized, double-blind, placebo-controlled, phase 3 trial


**RCT2904** Results of a phase 2 study of GLPG1205 for idiopathic pulmonary fibrosis (PINTA)

Vincent Cottin (Lyon, France), Christian A. Seemayer, Liesbeth Fagard, Paul Ford, Tom Van Der Aa, Angela De Haas-Amatsaleh, Eva Santermans, Eric Sondag, Toby M. Maher, Ulrich Costabel, Irina R. Strambu

**RCT2905** Late Breaking Abstract - Long-term Effect of Pulmonary Rehabilitation under Nintedanib treatment in Idiopathic Pulmonary Fibrosis (FITNESS study)

Takashi Ogura (Yokohama, Japan), YOSHIHITO MORI, Kensuke Kataoka, Osamu Nishiyama, Masahiko Ando, Shinichi Arizono, Tomoya Ogawa, Akira Shiraki, Kazuya Ichikado, Hiroshi Ishimoto, Hiroyuki Ito, Koji Sakamoto, Keisuke Tomii, Hiromi Tomioka, Toru Tsuda, Ryo Kozu, Yasuhiro Kondoh

**RCT2906** Wrap-up by discussant and discussion

Vincent Cottin (Lyon, France)

**RCT2907** Closing remarks
### The impact of colonization with therapy-resistant pathogens on the survival rate after lung transplantation (LUTX) in cystic fibrosis (CF)
Bettina Weingard (Homburg (Saar), Germany), Franziska C. Trudzinski, Sophie Schneitler, Sören Becker, Hans-Joachim Schäfers, Robert Bals, Heinrike Wilkens, Frank Langer

### Does assessing frailty in lung transplant candidates on the waiting list provide information?
Alba Gómez Garrido (Barcelona, Spain), Bernat Planas, Antonieta Falco, Patricia Launois, Vicenta Pujol, Marta Sabate, Anna Mayer, Irene Bello, Judith Sacanell, Antonio Roman

### Reduced ventilatory efficiency during exercise in lung transplant recipients
Fausto Braccioni (Padova, Italy), Filippo Lanfranchi, Francesca Battista, Marco Schiavon, Eleonora Faccioli, Monica Loy, Marcello Di Paoli, Andrea Ermolao, Federico Rea, Andrea Vianello

### Basiliximab vs antithymocyte globulin after lung transplantation: A national review
Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Figueiredo, Mariana Cabral, Alexandra Borba, Alexandra Mineiro, João Cardoso, Paulo Calvinho, Luisa Semedo, José Fraga

### Electronic nose for detecting chronic lung allograft dysfunction in lung transplant recipients
Nyke Wijbenga (Rotterdam, Netherlands), Rogier A. S. Hoek, Bas J. Mathot, Leonard Seghers, Catharina C. Moor, Olivier C. Manintveld, Merel E. Hellemons

### Oxygenated hemoglobin predicts outcome in patients with chronic lung allograft dysfunction
Kathrin Kahnter (München, Germany), Franziska C. Trudzinski, Christiane Bickert, Dieter Munker, Katrin Milger, Michael Irlbeck, Roland Tomasi, Christian Schneider, Sebastian Michel, Felix Herth, Jürgen Behr, Rudolf Jörres, Nikolaus Kneidinger

### Comparison of extracorporeal photopheresis efficacy in treated versus non-treated patients with refractory BOS.
Benjamin Renaud-Picard (Strasbourg, France), Justine Leroux, Sandrine Hirschi, Arnaud Essaydi, Alain Bohbot, Tristan Degot, Armelle Schuller, Anne Olland, Romain Kessler

### Late Breaking Abstract - Good outcome for lung transplantation for adults with interstitial lung disease associated with genetic disorders of surfactant metabolism
Julien Bermudez (Marseille, France), Nadia Nathan, Benjamin Coiffard, Antoine Roux, Sandrine Hirschi, Tristan Degot, Vincent Bunel, Jérôme Le Pavec, Julie Macey, Aurélie Leborgne-Krams, Vincent Cottin, Raphaël Borie, Martine Reynaud-Gaubert

### Discussion
All Speakers

---

**Skills lab**

**Session 335**

**10:00 - 12:00**

**Skills lab: Interventional pulmonology**

**Aims:** To demonstrate bronchoscopic techniques for the diagnosis, nodal staging, and treatment of lung cancer; to demonstrate novel bronchoscopic techniques for the treatment of chronic obstructive pulmonary disease, emphysema, and chronic bronchitis; to demonstrate how to perform cryobiopsy in interstitial lung diseases, and demonstrate how to do rigid thoracoscopy for suspected pleural malignancy.

**Disease(s):** Interstitial lung diseases, Pulmonary vascular diseases, Sleep and breathing disorders, Respiratory infections, Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician, Physician in Pulmonary Training, Nurse, Paediatrician, Respiratory critical care physician, General practitioner, Radiologist, Pathologist, Medical Technical Assistant

**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Daniela Gompelmann (Vienna, Austria)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Robotic bronchoscopy combined with needle based confocal laser endomicroscopy (nCLE) for peripheral lung cancer</td>
<td>Christopher Manley (Philadelphia, United States of America)</td>
</tr>
<tr>
<td>10:15</td>
<td>Robotic bronchoscopy for peripheral lung nodule</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
</tr>
<tr>
<td>10:30</td>
<td>EBUS combined with EUS-B for a complete endoscopic staging of lung cancer</td>
<td>Vanina Livi (Rome, Italy)</td>
</tr>
<tr>
<td>10:45</td>
<td>Cryobiopsy in interstitial lung diseases</td>
<td>Sara Tomassetti (Florence, Italy)</td>
</tr>
<tr>
<td>11:00</td>
<td>Bronchoscopic radiofrequency ablation of lung cancer</td>
<td>Daniel Steinfort (Clifton Hill (VIC), Australia)</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Chair(s)</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>11:15</td>
<td>Rheoplasty in chronic bronchitis</td>
<td>Judith Brock (Heidelberg, Germany)</td>
</tr>
<tr>
<td>11:30</td>
<td>Target lung denervation (TLD) for COPD</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
</tr>
<tr>
<td>11:45</td>
<td>Endobronchial valves for lung emphysema</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
</tr>
<tr>
<td></td>
<td>Breakout room: Guidelines session, ERS guidelines on non-continuous positive airway pressure therapies in obstructive sleep apnoea</td>
<td>Sophia E. Schiza (Heraklion, Greece), Johan Verbraecken (Edegem (Antwerp), Belgium), Joerg Steier (London, United Kingdom), Sumedha Narula (New Delhi, India)</td>
</tr>
<tr>
<td></td>
<td>Guidelines session: High flow nasal cannula in adults with acute respiratory failure</td>
<td>No chair specified</td>
</tr>
<tr>
<td>10:20</td>
<td>Physiologic rationale and clinical pitfalls</td>
<td>Raffaele Scala (Arezzo, Italy)</td>
</tr>
<tr>
<td>10:32</td>
<td>Non-invasive respiratory treatment options and recommendations</td>
<td>Simon Oczkowski (Hamilton, ON, Canada)</td>
</tr>
<tr>
<td>10:42</td>
<td>Practical approach with cases, interactive questions and discussion</td>
<td>Begüm Ergan (Izmir, Turkey)</td>
</tr>
<tr>
<td></td>
<td>Breakout room: Hot topics, Hot news from the pleura</td>
<td>Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Najib M. Rahman (Oxford, United Kingdom), Anna Bibby (Bristol (Avon), United Kingdom), El\the Magdalena Grabczak (Warszawa, Poland), Charles Wong (Hong Kong, Hong Kong)</td>
</tr>
<tr>
<td></td>
<td>Breakout room: Guidelines session, High flow nasal cannula in adults with acute respiratory failure</td>
<td>Raffaele Scala (Arezzo, Italy), Simon Oczkowski (Hamilton, ON, Canada), Begüm Ergan (Izmir, Turkey), Sumedha Narula (New Delhi, India)</td>
</tr>
<tr>
<td></td>
<td>Breakout room: Symposium, Living with a new norm: providing quality care in the post-COVID era</td>
<td>Antonio Spanevello (Milan, Italy), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Thierry Troosters (Leuven, Belgium), Ilona Tietzova (Prague, Czech Republic), Ema Swingwood (Monmouthshire, United Kingdom)</td>
</tr>
<tr>
<td></td>
<td>Breakout room: State of the art session, Pulmonary vascular diseases</td>
<td>Olivier Sanchez (Paris, France), Harm Jan Bogaard (Amsterdam, Netherlands), Karen M Olsson (Hannover, Germany), Laurent Savale (Le Kremlin-Bicêtre, France), Mitja Jevnikar (Paris, France)</td>
</tr>
</tbody>
</table>
Breakout room: Breakout room: Clinical trials session, 3-ALERT: Asthma in adult, in children and ILDs

**Chairs:** Flávia Fonseca Fernandes (Brasília, Brazil), Celeste Michala Porsbjerg (Copenhagen, Denmark), Vincent Cottin (Lyon, France)

**Channel 2**

Session 343 11:15 - 12:45

Oral presentation: A multidisciplinary approach to the management of chronic respiratory diseases

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** Pulmonary rehabilitation, General respiratory patient care, Palliative care, Pulmonary function testing, Physiology, Cell and molecular biology, Public health

**Chairs:** Sally J. Singh (Leicester (Leicestershire), United Kingdom), Audrey Borghi Silva (São Carlos (SP), Brazil)

**OA2932**

**Introduction**

**OA2933**

Impact of an individualized exercise training program on metabolic and aerobic capacity data of patients with type-2 diabetes mellitus: A case-control study.

Ichraf Anane (Sousse, Tunisia), Helmi Ben Saad, Imed Latiri

**OA2934**

Early experiences of rehabilitation for patients post-COVID to improve fatigue, breathlessness exercise capacity and cognition.

Enya Daynes (Leicester, United Kingdom), Charlotte Gerlis, Emma Chaplin, Nikki Gardiner, Sally Singh

**OA2935**

Aerobic Training Improves Pulmonary and Systemic Inflammatory and Fibrotic Response in Asthmatics

Renilson Moraes Ferreira (São José dos Campos, Brazil), Maysa A R Brandao-Rangel, Anamal Silva-Reis, Thiago G Gibson-Alves, Helida C Aquino-Santos, Victor H Souza-Palmeira, Claudio R Frison, Rodolfo P Vieira

**OA2936**

Impact of the British Lung Foundation Active Steps service on patient reported outcomes: concurrent cohort study

Arwel Jones (Melbourne, Australia), Hayley Robinson, Mark Saunders, Amanda Brewster, Colin Ridyard, Murray Smith, Jenna Peel, Joel Shopland, Claire Wilson, Susan Frizzell, Abi Dean, Mark Hinchcliffe, Niroshan Siriwardena, Graham Law

**OA2937**

Educational program in patients with COPD who attend two pulmonary rehabilitation programs in the city of Santiago de Cali

Julián Andrés Rivera Motta (Cali, Colombia), Julián Rivera, Stefani Tonguino, Jhonatan Betancourt, Beatriz Muñoz, Lina Marcela Orozco Mejia

**OA2938**

Effectiveness of multi-disciplinary community respiratory team management of chronic respiratory illness during the COVID-19 pandemic

Emma Johnson (Paisley (Renfrewshire), United Kingdom), Emily Turner, Stewart Gingles, Katie Levin, Elaine Mackay, Claire Roux, Marianne Milligan, Marion Mackie, Kirsten Farrell, Kirsty Murray, Suzanne Adams, Joan Brand, Hannah Bayes, David Anderson

**OA2939**

Effectiveness of a long-term home-based exercise training program in COPD patients: The HOMEX-1 RCT

Anja Frei (Zürich, Switzerland), Thomas Radtke, Kaba Dalla Lana, Patrick Brun, Thomas Sigrist, Marc Spielmanns, Swantje Beyer, Thomas Riegler, Gilbert Büssing, Sabine Schöndorf, Julia Braun, Ramona Kunz, Tamara Cerini, Milo Puhar

**OA2940**

Late Breaking Abstract - Self-management interventions for patients with COPD – a Cochrane review

Jade Schrijver (Enschede, Netherlands), Anke Lenferink, Marjolein Brusse-Keizer, Marlies Zwerink, Paul Van Der Valk, Job Van Der Palen, Tanja Effing

**OA2941**

RCT Abstract - Using a smartphone application in COPD patients to increase physical activity following pulmonary rehabilitation. Results of the AMOPUR Study, a multicenter, randomized, controlled study

Marc Spielmanns (Wald, Switzerland), Tobias Bössel, Stephan Huber, Pawandeep Kaur Bollinger, Jonas Bjoerklund, Bernhard Ulm, Anna-Maria Peckaka-Egli, Daniela Leitl, Inga Jarosch, Tessa Schneeberger, Sabine Spielmanns, Rainer Gloeckl, Rembert Koczulla

**OA2942**

Discussion

All Speakers

**Channel 3**

Session 344 11:15 - 12:45

Oral presentation: COPD pharmacology: from basic science to real-world data
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases, Respiratory critical care

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

Chairs: Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Guy Brusselle (Ghent, Belgium)

OA2943 Introduction

OA2944 Ten-year projected outcomes associated with increased use of triple therapies in UK patients with COPD using the COPD Health Outcome Policy and Intervention (CHOPIN) model
Enrico de Nigris (Staines, United Kingdom), Phil McEwan, Ulf Holmgren, Jonathan Marshall, Hana Müllerová, Volker Foos

OA2945 COPD maintenance therapy is related to left heart size: Results from the multicenter long-term observation COSYCONET
Peter Alter (Marburg, Germany), Christina Kellerer, Kathrin Kahnert, Franziska Trudzinski, Johanna Lutter, Korbinian Berschneider, Tim Speicher, Henrik Watz, Robert Bals, Tobias Welte, Claus Vogelmeier, Rudolf Jörrres

OA2946 Effect of high or low-medium accumulated dose regimes of systemic corticosteroids for hospitalised patients with exacerbated chronic obstructive pulmonary disease: pooled analysis of individual participant data from the REDUCE and CORTICO-COP trials
Pradeesh Sivapalan (Hellerup, Denmark), Jonas Rutishauser, Charlotte Suppli Ulrik, Jörg D. Leuppi, Lars Pedersen, Beat Mueller, Josefín Eklöf, Tor Biering-Sørensen, Vibeke Gottlieb, Karin Armbruster, Julie Janner, Mia Moberg, Therese S. Lapperre, Thyge L. Nielsen, Andrea Browatzki, Alexander Mathioudakis, Jørgen Vestbo, Philipp Schütz, Jens-Ulrik Jensen

OA2947 Are patients with COPD more adherent to single-inhaler compared with multiple-inhaler triple therapy in a real-world UK primary care treated population?
Kieran Rothnie (London, United Kingdom), Alexandrosz Czira, Chris Compton, Vicky Banks, Robert Wood, Theo Tritton, Joseph Thomas, Olivia Massey, Stuart Blackburn, Rosie Wild, Afisi Ismaila

OA2948 The therapeutic potential of PD-1/PD-L1 blockade in smoking exposed emphysema
Sei Won Lee (Seoul, Republic of Korea), Jiseon Kim, Na Hyun Kim, Chang-Ho Shon, Jin-Young Huh, Kyung Yeon Han, Kyu-Tae Kim, Sun Hye Shin, Hye Yun Park

OA2949 Epigenetic regulation via PRMT17 controls monocyte migration and COPD pathogenesis
Thomas Conlon (Neuherberg, Germany), Gizem Gunes, Aicha Jeridi, Ren Kim, Gerald Burgstaller, Stijn Verleden, Tobias Stöger, Gunnar Dittmar, Melanie Königshoff, Oliver Eickelberg, Henrik Watz, Robert Schneider, Ali Önder Yildirim

OA2950 COPD exacerbation and use of methotrexate – a nationwide study of 58,580 outpatients
Christina Marisa Bergsoe (Frederiksberg, Denmark), Pradeesh Sivapalan, Josefín Eklöf, Zaigham Saghir, Rikke Sørensen, Mohamad Isam Saeed, Jens-Ulrik Stæhr Jensen

OA2951 Relationship between prior triple therapy use and benefits of budesonide/glycopyrronium/formoterol on exacerbation risk: analysis from ETHOS
Mehul Patel (St. Albans, United Kingdom), Dave Singh, Klaus F Rabe, Fernando J Martinez, Martin Jenkins, Paul Dorinsky

OA2952 Late Breaking Abstract - Comparing pneumonia risk in COPD patients initiating Fixed Dose Combination (FDC) inhaler comprising extrafine beclometasone dipropionate versus fluticasone
David Price (Singapore, Singapore), William Henley, Victoria Carter, Derek Skinner, Rebecca Vella, Alberto Papi, Leonardo M Fabbri, Huib Am Kerstjens, Nicolas Roche, Dave Singh, Claus F Vogelmeier, Elif Şen, José Eduardo Delfini Cançado, Elena Nudo, Sara Barile, George Georges

OA2953 Late Breaking Abstract - The TRITRIAL COPD study: preliminary baseline patient characteristics collected during the COVID-19 pandemic
Luca Richeldi (Roma, Italy), Pietro Schino, Elena Bargagli, Alberto Ricci, Francesca Marchesani, Alfio Pennisi, Anna Camicioniotti, Alberto Rocca, Mariella D'Amato, Francesco Macagnò, Eleonora Ingrassia, Ulrica Scaffidi Argentina, Alessio Piraino, Luca Richeldi

OA2954 Discussion
All Speakers

Channel 4 Session 345 11:15 - 12:45

Oral presentation: Causes and consequences of paediatric respiratory diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
Introduction

Respiratory symptoms of Swiss people with Primary Ciliary Dyskinesia

Myrofora Goutaki (Bern, Switzerland), Leonie Hüsler, Yin Ting Lam, Eugenie Collaud, Helena Koppe, Eva Pedersen, Claudia Kuehni

The Palestinian primary ciliary dyskinesia (PCD) cohort: clinical, diagnostic and genetic spectrum

Nisreen Rumman (Bethlehem, Palestine), Mahmoud Fassad, Corine Driessens, Patricia Goggin, Nader Abdelrahman, Adel Adwan, Jagrati Chopra, Regan Doherty, Bishara Fashho, Grace M. Freke, Claire L. Jackson, Mai Mohamed, Reda Abu Nema, Mitali P. Patel, Ruben Pengelly, Ahmad Qaqour, Bruna Rubbo, James Thompson, Gabrielle Wheway, Hannah Mitchison, Jane Lucas

Increased impact of air pollution on lung function in preterm vs. term infants: the BILD study

Fabienne Decrue (Basel, Switzerland), Olga Gorlanova, Yasmin Salem, Danielle Vienneau, Kees De Hoogh, Amanda Gisler, Jakob Usémann, Insa Korten, Uri Nahum, Pablo Sinues, Sven Schulzke, Oliver Fuchs, Philipp Latzin, Martin Röösti, Urs Frey

Early-life urban environment and lung function and asthma at school age. The Generation R Study.

Alicia Abellan (Barcelona, Spain), Susana Santos, Charline Warembourg, Sara M. Mensink-Bout, Vincent W.V. Jaddoe, Martine Vrijheid, Maribel Casas, Liesbeth Duijts

Dietary patterns and lung function in childhood: A longitudinal study

Mohammad Talaei Pashiri (London, United Kingdom), Pauline M. Emmett, Kate Northstone, Seif O. Shaheen

Lung function trajectories and their determinants in 4-18 year-old children from the INMA birth cohort

Sarah Koch (Vancouver, Canada), Gabriela Peralta, Anne-Elie Carsin, Lourdes Cirugeda, Jordi Sunyer, Martine Vrijheid, Raquel Garcia-Esteban, Alicia Abellan, Mónica Guexens, Maties Torrent, Ferran Ballester, Amparo Ferrero, Carmen Iglesias, Carlos Zabaleta, Mikael Basterra, Maribel Casas, Judith Garcia-Aymerich

Effect of COVID19 preventive measures on respiratory infections and symptoms in children

Cristina Ardura-Garcia (Bern, Switzerland), Maria Christina Mallet, Eva Sl Pedersen, Daria Berger, Juerg Barben, Sylvain Blanchon, Carmen Casaulta, Karin Hoyler, Anja Joehmann, Alexander Moeller, Dominik Mueller-Suter, Nicolas Regamey, Philipp Latzin, Claudia E Kuehni

Delayed bronchiolitis season's onset during COVID-19 pandemic

Sergio Ghirardo (Trieste, Italy), Nicola Ullmann, Marta Luisa Ciofi Delegi Atti, Massimiliano Raponi, Renato Cutrera

Late Breaking Abstract - Do face masks cause abnormal gas exchange during exercise testing in children?

Maria Christina Mallet (Bern, Switzerland), Michael Hitzler, Marco Lurà, Claudia E Kuehni, Nicolas Regamey

Discussion

All Speakers

Oral presentation: New approaches to diagnostic and prognostic evaluation of interstitial lung diseases of known causes

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Interstitial lung disease, Respiratory critical care

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

Chairs: Elena Bargagli (Siena, Italy), Athol Wells (London, United Kingdom)
Automated quantification system predict a progressive phenotype in rheumatoid arthritis-associated interstitial lung disease
Ju hyun Oh (Seoul, Republic of Korea), Grace Hyun J Kim, Gary Cross, Joseph Barnett, Jacob Joseph, Jin Woo Song

Rheumatoid arthritis-associated interstitial lung disease: time trends
Bilal Samhouri (Rochester, United States of America), Cynthia Crowson, Sara Achenbach, Vanessa Kronzer, John Davis, Elena Myasoedova, Robert Vassallo

Disease behaviour and prognostic factors in Hypersensitivity Pneumonitis with UIP-like pattern
Maria João Freitas Ferreira Araújo (Guimarães, Portugal), André Carvalho, Eva Padrão, Helder Novais Bastos, Natália Melo, Patricia Mota, Antonió Morais

Modified GAP index by including serum KL-6 to assess risk of disease progression in patients with interstitial lung diseases (ILD): preliminary results from the VAMOS study.
Francesco Bonella (Düsseldorf, Germany), Maria Carmen Vegas Sanchez, Paloma Millan, Eva Gottstein, Olga Sánchez Pernaute, Diego Castillo

Artificial intelligence-mediated diagnosis of asbestosis
Kevin Bernardus Wilhelmus Groot Lipman (Amsterdam, Netherlands), Cormedine J. De Gooyer, Thierry N. Boellaard, Ferdi Van Der Heijden, Regina G. H. Beets-Tan, Zuhir Bodalal, Stefano Trebeschi, Sjaak Burgers

Subclinical ILD is frequent and progresses across different connective tissue diseases
Anna Maria Hoffmann-Vold (Oslo, Norway), Helene Andersson, Silje Reiseter, Håvard Fretheim, Imon Barua, Torhild Garen, Øyvind Midvedt, Ragnar Gunnarsson, Micheal T Durhem, Mogens Aalokken, Øyvind Molberg

Association between monocyte count and ILD progression in subjects with fibrosing ILDs: data from the INBUILD trial
Michael Kreuter (Heidelberg, Germany), Toby M Maher, Kazuya Ichikado, Justin M Oldham, Claudia Valenzuela, Heiko Mueller, Klaus B Rohr, Kevin R Flaherty

Shifting demographics of patients diagnosed with E-cigarette or vaping associated lung injury (EVALI)
Denitza Blagev (Salt Lake City, United States of America), Sean Callahan, Dixie Harris, Dave Collingridge, Michael Lanspa

Late Breaking Abstract - A composite serum biomarker index for the diagnosis of systemic sclerosis associated interstitial lung disease: a multicentre, observational, cohort study
Adelle S. Jee (Sydney (NSW), Australia), Iain Stewart, Peter Youssef, Stephen Adelstein, Donna Lai, Sheng Hua, Wendy Mr Stevens, Susanna Proudman, Gene-Siew Ngian, Ian N Glaspole, Yuben P Moodley, Jane F Bleasel, Sacha Macansh, Mandana Nikpour, Joanne Sahhar, Tamera J Corte, On Behalf Of The Australian Scleroderma Cohort Study, Australian Scleroderma Interest Group, Australian Idiopathic Pulmonary Fibrosis Registry, And Associated Investigators

Discussion
All Speakers

State of the art session: Thoracic oncology

Aims: To provide valuable insights into hot topics in thoracic oncology. Based on the broad multi-disciplinarity of the European Respiratory Society in this field, latest evidence will be translated into state-of-the-art care, taking into account the integration of artificial intelligence.

Disease(s): Thoracic oncology

Method(s): Cell and molecular biology Epidemiology Imaging

Tag(s): Translational

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

Chairs: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland)

11:15 Introduction
11:20 Early detection of thoracic malignancies and artificial intelligence: a rapidly evolving field
Annemiek Snoeckx (Edegem (Antwerp), Belgium)

11:35 Multimodality management of non-small cell lung cancer stage III: the pulmonologist as pilot and partner
Armin Frille (Leipzig, Germany)
### Studio Barcelona  
**Session 348**  
**11:15 - 12:45**

**Hot topics: How science conquered COVID-19: from big platform trials to patients**

**Aims:** To describe ground-breaking news about phenotyping and managing acute hospitalised COVID patients; to describe several key studies, results and advances including the recent RECOVERY-RS study of respiratory support, phenotyping to assist risk stratification and the results of the international RECOVERY and REMAP-CAP trials.

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

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory therapist

**Chairs:** Anita Simonds (London, United Kingdom), Winfried J. Randerath (Solingen, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>Phenotypes in acute COVID: lessons from the multicentre studies</td>
<td>Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)</td>
</tr>
<tr>
<td>11:35</td>
<td>Needing oxygen in COVID? Acute respiratory support (RECOVERY-RS), continuous positive airway pressure, high-flow nasal oxygen and other approaches controversies</td>
<td>Gavin D Perkins (Birmingham (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>11:50</td>
<td>Research prioritisation in long COVID: using patients and experts to develop an international consensus</td>
<td>Luke Daines (Edinburgh (Edinburgh), United Kingdom)</td>
</tr>
<tr>
<td>12:05</td>
<td>What have we learned from big platform trials of COVID? RECOVERY, REMAP-CAP and others</td>
<td>Lennie P. G. Derde (Utrecht, Netherlands)</td>
</tr>
<tr>
<td>12:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

### Studio London  
**Session 349**  
**11:15 - 12:45**

**Symposium: Maintenance of the beneficial effects of pulmonary rehabilitation: the role of digital health**

**Aims:** to describe the natural decline of (extra)pulmonary features of patients with chronic obstructive pulmonary disease (COPD); to describe the concept and effectiveness of maintenance programs following pulmonary rehabilitation; to describe the implementation, challenges and pitfalls of physical activity coaching programs as a maintenance strategy; to provide insight into the role of digital health in maintenance programs.

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

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

**Tag(s):** Clinical, Digital health

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs:** Martijn A. Spruit (Horn, Netherlands), Pierantonio Laveneziana (Paris, France), Joana Cruz (Leiria, Portugal)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>Patient's perspective</td>
<td>Jean-Michel Fourrier (Lagny sur Marne, France)</td>
</tr>
<tr>
<td>11:25</td>
<td>Natural decline of (extra) pulmonary features in patients with COPD: a slippery slope</td>
<td>Lowie G.W. Vanfleteren (Gothenburg, Sweden)</td>
</tr>
</tbody>
</table>
Symposium: Pulmonary embolism: special situations

Aims: To provide practical recommendations for management of pulmonary embolism (PE) in special situations (cancer and pregnancy), when patients are diagnosed with subsegmental PE and when patients suffer recurrence while on anticoagulant therapy.

Disease(s): Pulmonary vascular diseases, Respiratory critical care

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

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Radiologist, Scientist (basic, translational)

Chairs: Marion Delcroix (Leuven, Belgium), Marc Humbert (Le Kremlin-Bicêtre, France)

11:15 Introduction

11:20 Management of subsegmental PE
Behnood Bikdeli (New York, United States of America)

11:35 Cancer-associated thrombosis
Manuel Monreal (Badalona, Spain)

11:50 Diagnosis and treatment of PE during pregnancy
Fionnuala Ní Áinle (Dublin, Ireland)

12:05 Management of recurrent PE in patients on anticoagulant therapy
Marc Rodger (Montreal, Canada)

12:20 Discussion and Q&A
All Speakers
## Channel 6  |  Session 352  |  11:15 - 12:45

**Oral presentation: From pathophysiology to different diagnostic modalities in sleep disordered breathing**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

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

**Chairs:** Raphael Heinzer (Lausanne, Switzerland), Silke Ryan (Dublin, Ireland)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OA3010</strong></td>
<td>Introduction</td>
<td>Raphael Heinzer (Lausanne, Switzerland), Manuel Sánchez-De-La-Torre, Geoffroy Solelhac, Mathieu Berger, Camila Hirotsu, José Haba-Rubio, Peter Vollenweider, Gerard Waeger, Pedro Marques-Vidal, Giulio Bernardi, Monica Betta, Alicia Sánchez-De-La-Torre, Ferran Barbe</td>
</tr>
<tr>
<td><strong>OA3011</strong></td>
<td>Pulse wave amplitude variations: a new biomarker of cardiovascular risk in patients with obstructive sleep apnea in HypnoLaus and ISAACC cohorts</td>
<td>Raphael Heinzer (Lausanne, Switzerland), Manuel Sánchez-De-La-Torre, Geoffroy Solelhac, Mathieu Berger, Camila Hirotsu, José Haba-Rubio, Peter Vollenweider, Gerard Waeger, Pedro Marques-Vidal, Giulio Bernardi, Monica Betta, Alicia Sánchez-De-La-Torre, Ferran Barbe</td>
</tr>
<tr>
<td><strong>OA3012</strong></td>
<td>Pulse-rate variability during sleep studies predicts stroke risk in patients with obstructive sleep apnea</td>
<td>AbdelKebir Sabil (Paris, France), Chloé Gervès-Pinquié, Margaux Blanchard, Mathieu Feuilloy, Wojciech Trzepizur, Nicole Meslier, François Goupil, Thierry Pigeanne, Frédéric Balusson, Emmanuel Oger, Jean-Marc Girault, Frédéric Gagnadoux</td>
</tr>
<tr>
<td><strong>OA3013</strong></td>
<td>Association of obstructive sleep apnea with thoracic fluid volume and small airways narrowing in asthma during sleep</td>
<td>Xiaoshu Cao (Toronto, Canada), Cristina Francisco, Nasim Montazeri Gahjaverestan, Susan Tarlo, Matthew Stanbrook, T. Douglas Bradley, Azadeh Yadollahi</td>
</tr>
<tr>
<td><strong>OA3014</strong></td>
<td>Changes in CB cell maturation during exposure to chronic intermittent hypoxia</td>
<td>Candelaria Caballero Eraso (Sevilla, Spain), Olaia Colinas, Veronica Sobrino, Carmen Calero-Acuña, Rafaela Gonzalez-Montelongo, Ricardo Pardo, José Lopez-Barneo, Patricia Ortega -saenz</td>
</tr>
<tr>
<td><strong>OA3015</strong></td>
<td>Altitude-induced sleep apnea is highly dependent on the ethnic (Sherpa vs Tamang) background</td>
<td>Raphael Heinzer (Lausanne, Switzerland), Grégory Heikiger, Simon Walbaum, Claudio Sartori, Alban Lovis</td>
</tr>
<tr>
<td><strong>OA3016</strong></td>
<td>Implanted cardiac devices in sleep apnoea diagnosis: a systematic review and meta-analysis</td>
<td>Raoua Ben Messaoud (Grenoble, France), Charles Khoury, Jean Louis Pepin, Jean Luc Cracowski, Renaud Tamisier, Fabian Barbieri, Anna Heidbreder, Pascal Defaye, Marie Joyeux-Faure</td>
</tr>
<tr>
<td><strong>OA3017</strong></td>
<td>Development of a digital medicine solution for home-based obstructive sleep apnea phenotyping</td>
<td>Jean-Benoit Martinot (Namur, Belgium), Sébastien Bailly, Lorent Hostaux, Renaud Tamisier, Nhat-Nam Le-Dong, Jean Pepin</td>
</tr>
<tr>
<td><strong>OA3018</strong></td>
<td>The GLP-1 receptor agonist Liraglutide attenuates intermittent hypoxia-induced pro-inflammatory macrophage polarization in primary macrophages</td>
<td>Ailbhe King (Dublin 4, Ireland), Susan Fitzpatrick, Cliona O'Donnell, Silke Ryan</td>
</tr>
<tr>
<td><strong>OA3019</strong></td>
<td>Multimodal phenotypic labelling using awake endoscopy, drug-induced sleep endoscopy and computational fluid dynamics for mandibular advancement device treatment outcome</td>
<td>Karlien Van den Bossche (Edegem, Belgium), Sara Op De Beeck, Marijke Dieltjens, Annelies Verbruggen, Anneclaire Vroegop, Johan Verbreecken, Paul Van De Heyning, Marc Braem, Olivier Vanderveken</td>
</tr>
</tbody>
</table>
### Challenging clinical cases: CCC Airway diseases

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in airway diseases area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

**Disease(s):** Airway diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Paediatrician, Physician in Pulmonary Training, Respiratory critical care physician, Respiratory physiotherapist, Radiologist, Nurse, Medical Student

**Chairs:** Dave Singh (Manchester, United Kingdom), Aye Arzu Yorgancuo (Konak, Turkey)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45</td>
<td>3022</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>11:50</td>
<td>3023</td>
<td>Congenital bronchobiliary fistula in an adult managed with bronchoscopic cyanoacrylate glue instillation</td>
<td>Muniza Bai (PONDICHERY, India)</td>
</tr>
<tr>
<td>12:00</td>
<td>3024</td>
<td>A rare case of hemoptysis</td>
<td>Niranjan Babu Ananda Setty (Bangalore (Karnataka), India)</td>
</tr>
<tr>
<td>12:10</td>
<td>3025</td>
<td>The plug thickens - a case of obstructive, bronchial mucus plugs</td>
<td>Frederikke Falkencrone Rønsholt (Kgs. Lyngby, Denmark)</td>
</tr>
<tr>
<td>12:20</td>
<td>3026</td>
<td>A case of peripheral eosinophilia</td>
<td>Arvind Tomar (Meerut, India)</td>
</tr>
<tr>
<td>12:30</td>
<td>3027</td>
<td>Drug user related pneumopathy: a case report</td>
<td>Fábio Kunita (Rio de Janeiro, Brazil)</td>
</tr>
<tr>
<td>12:40</td>
<td>3028</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

### Skills lab: Spirometry and oscillometry

**Updates in basic and advanced lung function techniques**

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Respiratory physiotherapist, Physiologist, Nurse, Respiratory therapist, Medical Technical Assistant

**Chairs:** Omar S. Usmani (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:10</td>
<td>3029</td>
<td>Introduction</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
</tr>
<tr>
<td>12:12</td>
<td>3030</td>
<td>Spirometry</td>
<td>Andrew Kouri (Toronto (ON), Canada), Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)</td>
</tr>
<tr>
<td>12:27</td>
<td>3031</td>
<td>Oscillometry</td>
<td>Ronald Dandurand (Beaconsfield (QC), Canada), Chung-Wai Chow (Toronto (ON), Canada)</td>
</tr>
<tr>
<td>12:42</td>
<td>3032</td>
<td>Discussion and Q/A</td>
<td>Omar S. Usmani (London, United Kingdom), Ronald Dandurand (Beaconsfield (QC), Canada), Andrew Kouri (Toronto (ON), Canada), Chung-Wai Chow (Toronto (ON), Canada), Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)</td>
</tr>
</tbody>
</table>
**Studio Amsterdam**  
Session 355  
12:45 - 13:00

**Breakout room:** Breakout room: State of the art session, Thoracic oncology  
**Chairs:** Annemiek Snoeckx (Edegem (Antwerp), Belgium), Armin Frille (Leipzig, Germany), Isabelle Opitz (Zurich, Switzerland), Kevin Blyth (Glasgow (Glasgow), United Kingdom), Charles Wong (Hong Kong, Hong Kong)

**Studio Barcelona**  
Session 356  
12:45 - 13:00

**Breakout room:** Breakout room: Hot topics, How science conquered COVID-19: from big platform trials to patients  
**Chairs:** Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom), Gavin D Perkins (Birmingham (West Midlands), United Kingdom), Luke Daines (Edinburgh (Edinburgh), United Kingdom), Lennie P. G. Derde (Utrecht, Netherlands), Sumedha Narula (New Delhi, India)

**Studio London**  
Session 357  
12:45 - 13:00

**Breakout room:** Breakout room: Symposium, Maintenance of the beneficial effects of pulmonary rehabilitation: the role of digital health  
**Chairs:** Jean-Michel Fourrier (Lagny sur Marne, France), Lowie G.W. Vanfleteren (Gothenburg, Sweden), Carolyn Rochester (New Haven, United States of America), Heleen Demeyer (Leuven, Belgium), Brian Caulfield (Dublin, Ireland), Ema Swingwood (Monmouthshire, United Kingdom)

**Studio Munich**  
Session 358  
12:45 - 13:00

**Breakout room:** Breakout room: Symposium, Pulmonary embolism: special situations  
**Chairs:** Behnood Bikdeli (New York, United States of America), Manuel Monreal (Badalona, Spain), Fionnuala Ní Áinle (Dublin, Ireland), Marc Rodger (Montreal, Canada), Mitja Jevnikar (Paris, France)

**Skills lab**  
Session 360  
13:00 - 15:00

**Skills lab:** Pulmonary rehabilitation  
**Interpretation of functional assessments to set up an individualised exercise training intervention**

**Aims:** To learn how to use results of functional assessments; to set up an individualised exercise training intervention for a participant in a pulmonary rehabilitation programme.

**Disease(s):** Airway diseases  
Pulmonary vascular diseases  
Respiratory infections  
Respiratory critical care  
Sleep and breathing disorders

**Method(s):** Pulmonary rehabilitation  
Pulmonary function testing

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

**Target audience:** Adult pulmonologist/Clinician, Physician in Pulmonary Training, Physiologist, Patient, Respiratory physiotherapist, Respiratory therapist, Nurse

**Chairs:** Daniel Langer (Leuven, Belgium), Thierry Troosters (Leuven, Belgium)

**13:00**  
**Case study - Interpretation of functional assessments to set up an individualised exercise training intervention**

Thierry Troosters (Leuven, Belgium), Daniel Langer (Leuven, Belgium)

---

**INDUSTRY VIRTUAL SYMPOSIUM**  
SEE PAGE 1

**Pre-congress content**  
Session 367  
13:15 - 14:15

**E-poster:** Biomarkers and risk factors in childhood asthma

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
**Disease(s):** Airway diseases, Respiratory critical care, Sleep and breathing disorders

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

**Chairs:** Angela Zacharasiewicz (Wien, Austria), Franca Rusconi (Firenze (FI), Italy)

**Predicting childhood allergy using machine learning methods on multi-omics data**
Canccan Qi (Groningen, Netherlands), Merlijn van Breugel, Yale Jiang, Casper-Emil Tingskov Pedersen, Ilya Pethoukhov, Judith Vons, Ulrike Gehring, Martin Berg, Mannix Biigel, Orestes Capra, Erick Forno, Andréane Morin, Anders Ullrik Eliesen, Zhongli Xu, Maarten Van Den Berge, Martijn Nawijn, Yang Li, Wei Chen, Louis Bont, Klaus Bønnelykke, Juan Celedón, Gerard Koppelman, Cheng-Jian Xu

**Higher exhaled nitric oxide levels in infancy is associated with less bronchiolitis and fewer adverse respiratory outcomes in the first year of life**
Carla Rebeca Da Silva Sena (Newcastle, Australia), Ediane De Queiroz Andrade, Patricia De Gouveia Belinelo, Elizabeth Perceval, Ben Prangemeier, Chris O’Donoghue, Sandrine Terry, Tanya Burke, William Gunning, Vanessa E Murphy, Paul D Robinson, Peter D Sly, Peter G Gibson, Adam Collison, Joerg Mattes

**Investigation of gene expression in relation to omalizumab treatment and peanut oral immunotherapy**
Simon Kebede Merid (Stockholm, Sweden), Sophia Björkander, David Brodin, Josef Brandström, Fredrik Fagerström-Billai, Marieke Van Der Heiden, Jon Konradsen, Michael Kabesch, Cornelis Van Drunen, Golebski Kornel, Anne H Maitland-Van Der Zee, Uroš Potočnik, Susanne J H Vijdverber, Anna Nopp, Caroline Nilsson, Erik Melén

**Peripheral blood TSLP (thymic stromal lymphopoietin) in children as a biomarker?**
Renate Vrsalovic (Zagreb, Croatia), Peter Korosec, Urska Bidovec Stojkovic, Iva Mihatov Stefanovic, Biserka Cicak, Ivan Samija, Sabina Skrgat

**The change in exhaled nitric oxide in adolescents – a longitudinal cohort study**
Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Clare Murray, Lesley Lowe, Adnan Custovic, Stephen Fowler, Angela Simpson

**Relationship between longitudinal changes in type-2 inflammation and clinical outcomes in young asthmatics**
Nikoas Tsalakis (Uppsala, Sweden), Tiago Jacinto, Andrei Malinovschi, Magnus Borres, Christor Janson, Kjell Alving

**Soluble receptor for advanced glycation end products (sRAGE) in asthmatic children as a new marker of the disease control**
Sergey Tereshchenko (Krashoyarsk, Russian Federation), Marina Smolnikova, Vasily Belenjuk, Ivan Novitsky

**Association of plasma levels and gene polymorphism IL12B, IL13 with severe asthma in Siberian children**
Sergey Tereshchenko (Krashoyarsk, Russian Federation), Marina Smolnikova, Svetlana Smirnova, Nina Gorbacheva, Olga Konopleva, Vasily Belenjuk

**External oxidants and asthma in childhood**
Emilija Vlashki (Skopje, North Macedonia), Valentina Cvejoska Cholakovska, Mica Kimovska, Tara Ristevska, Joshua Lawson

**Childhood asthma and its association with selected obstetric and neonatal factors among children aged 3-10 years: evidence from a South Asian population.**
Angekta Deen (Colombo, Sri Lanka), Jayanee Jayakaduwa, Kinkini Kottahachchi, Osanda Dissanayake, Sidath Perera, Surangi Jayakody, Chandimani Undugodage

**Plasma level of Mannose-binding lectin-associated serine protease (MASP-2) concentration in children with asthma.**
Sergey Tereshchenko (Krashoyarsk, Russian Federation), Marina Smolnikova, Margarita Shubina, Nina Gorbacheva

**Aeroallergen sensitivity among children with asthma and its association with asthma control in Sri Lanka**
Hasitha Gajaweera (matara, Sri Lanka), Chandima Jeevandara, Neelika Malavige, Chaturika Bandara, Kumudu Weerasekara

**Persistently increased respiratory effort during sleep (RE) in children with obstructive sleep apnea (OSA) is indicative of allergy/asthma, obesity risk and inadequate treatment**
Kalomoira Kefala (Colombe, France), Francois Lavaud, Agnes Linglart, Philippe Guerin
E-poster: Advances in diagnosis, treatment and clinical management of nontuberculous mycobacterial disease

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): General respiratory patient care  Physiology  Surgery  Epidemiology  Cell and molecular biology

Chairs: Yadee Maung Maung Myint (Stevenage, United Kingdom), Marc Lipman (London, United Kingdom)

**PA3084**
Morphological features of non-tuberculous mycobacteriosis in patients operated on for lung tuberculosis
Vilayat Aliev (Moscow, Russian Federation), Larisa Lepeha, Larisa Chernousova, Elena Krasnikova, Natalia Makaryants, Mamed Bagirov

**PA3085**
Adverse reactions in the treatment of patients with non-tuberculous pulmonary mycobacteriosis.
Elena Vladimirova (Moscow, Russian Federation), Elena Vladimirova, Shmelev Evgeny, Zaitseva Anna, Degtyareva Svetlana

**PA3086**
Interferon gamma (IFN?) pathway deficiency and severe NTM disease
Shashank Sharma (Woking Surrey, United Kingdom), Fawzi Ali, Saitka Sujoy, Karaj Jola

**PA3087**
Bedaquiline in the treatment of multi-drug resistant nontuberculous mycobacteria soft tissue infections: a case series
Francesca Wright (Torquay, United Kingdom), Louise Anning, Bianca Hulance

**PA3088**
Immune profiling to differentiate progressive from non-progressive non-tuberculous mycobacteria lung disease: A pilot study
Paige Marty (Rochester, United States of America), Patricio Escalante, Virginia Van Keulen, Courtney Erskine, Maleeha Shah, Kelly Pennington, Tobias Peikert

**PA3089**
T cells subtypes in pleural effusion of tuberculous and non-tuberculous patients
Neda Dalil Roofchayee (Tehran, Islamic Republic of Iran), Majid Marjani, Neda K.Dezfuli, Esmaeil Mortaz

**PA3090**
Posttreatment Lymphopenia Is Associated With an Increased Risk of Redeveloping Nontuberculous Mycobacterial Lung Disease in Patients With Mycobacterium avium Complex Lung Disease
Koji Furuchi (Kiyose, Tokyo, Japan), Keiji Fujiwara, Fumiko Uesugi, Masafumi Shimoda, Yoshiaki Tanaka, Takashi Yoshiyama, Kozo Yoshimori, Atsuyuki Kurashima, Ken Ohta, Kozo Morimoto

**PA3091**
Sputum proteomics of CF, BE and COPD with or without NTM infections
Rebecca Hull (Sheffield, United Kingdom), Jeffrey T-J Huang, Alison Dicker, Holly R Keir, Huw Ellis, Bill Cookson, Miriam Moffatt, Michael R Loebinger, James D Chalmers

**PA3092**
The non-tuberculous pulmonary disease experience in a general respiratory clinic in the UK
Yadee Maung Maung Myint (Stevenage, United Kingdom), Yadee Maung Maung Myint, Sachin Ananth, Cassandra Stavropolous, Jacob Anitha, Madhuridh Madhuridh, Pancha Nandasiri, Ajitha Jayaratnam

**PA3093**
PREVALENCE OF NON TUBERCULOUS MYCOBACTERIA (NTM) IN HIGH RISK COPD PATIENTS
Beatriz Gonzalez Quero (bilbao, Spain), Eva Tabernero Huguet, Patricia Sobradillo Ecenarro, Elena Garay Llorente, Joseba Andia Iturrate, Larraitz Garcia Echebarria, Milagros Iriberry Pascual

**PA3094**
Nontuberculous mycobacteria in respiratory tract samples: what does it mean?
Samia Esssebaa (Ariana, Tunisia), Hafsaoua Daighfous, Amani Ben Mansour, Soumaya Ben Saad, Soraya Fenniche, Nawel Chaouch, Leila Gharbi, Aghnès Hamzaoui, Habib Ghedira, Lamine Megdiche, Leila Slim, Fatma Tritar

**PA3095**
Nontuberculous pulmonary mycobacteriosis caused by slowly growing nontuberculous mycobacteria as pulmonary comorbidity
Anna Sargsyan (Schelkovo, Russian Federation), Natalya Makaryants, Larisa Lepeka, Anna Zaitseva

**PA3096**
Late Breaking Abstract - The use of Xpert Ultra in the diagnosis of tuberculosis in childhood and adolescence
Ana Alice Amaral Itiapiina Parente (Rio De Janeiro, Brazil), Rafaela Baroni Aurilio, Clemax Couto Sant'Anna, Maria De Fátima Bazhuri Pombo Sant'Anna, Afrânio Lineu Kriski, Thiago Da Silva Santos Maluquias, Sidnei Ferreira, Claudia Stella Percira, Lenita De Melo Lima, Michely Alexandreiro De Souza Pinheiro, Belize Marques Barreto
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Chairs:** Jose Porcel (Lleida, Spain), Duneesha De Fonseka (Sheffield, United Kingdom)

**PA3097**  
**Subclinical myasthenia gravis in thymomas**  
Florit Marcuse (Maastricht, Netherlands), Monique Hochstenbag, Janneke G.J. Hoeijmakers, Myrurgia Abdul Hamid, Jan Damoiseaux, Jos Maessen, Marc De Baets

**PA3098**  
**How successful are medical thoracoscopists at predicting non-expandable lung?**  
Syed Ajmal (Nottingham (Nottinghamshire), United Kingdom), Sarah Johnstone, Muhammad Tufail, Rakesh Panchal

**PA3099**  
**Are people with mesothelioma well represented in the English cancer patient experience survey?**  
Yvonne Nartey (Nottingham, United Kingdom), Iain Stewart, Aamir Khakwani, Vanessa Beattie, Andrew Wilcock, Ian Woolhouse, Paul Beckett, Richard Hubbard, Laila Tata

**PA3100**  
**Impact of sarcopenia in long-term symptoms in patients with malignant pleural effusion.**  
Janet Rodriguez Torres (Granada, Spain), Laura López-López, Maria Granados-Santiago, Esther Prados-Roman, Alejandro Heredia-Ciuró, Marie Carmen Valenza

**PA3101**  
**Variation in outcomes for M1a Stage Lung cacers- Outcome in Malingnat Pleural Effusion significantly worse than patients with Contralateral Lung Nodules**  
Sayed Alderazi (Birmingham (West Midlands), United Kingdom), Anne Karanuatilleke, Benjamin Sutton

**PA3102**  
**Modified Glasgow Prognostic Score – a predictor of survival in malignant pleural effusion**  
Beatriz Martins (São Mamede De Infesta, Portugal), Mariana Serino, Pedro Magalhães Ferreira, Rita Trovisco, David Coelho, Cláudia Freitas, Nátália Melo, Gabriela Fernandes, Adriana Magalhães, Hélder Novais-Bastos

**PA3103**  
**Primary cilium regulates cell migration and mechanical contraction in mesothelioma cell models.**  
Sotiriios Zarogiannis (Larisa, Greece), Ourania Kotsiou, Rajesh Jagirdar, Erasmia Rouka, Eleanna Pitaraki, Konstantinos Gourgoulianis

**PA3104**  
**Evaluating the presence of SARS-CoV-2 RNA in the pleural fluid of patients undergoing pleural procedures without symptoms of COVID-19**  
Nikolaos I. Kanellakis (Oxford, United Kingdom), Eihab Bedawi, Nikolaos Kanellakis, Megan Fisher, Yu Zhao, Vineeth George, Anand Sundaralingam, Xuan Yao, Aurelia Gondrand, Mohamed Ellayeh, Rob Hallifax, Jeffrey Thiboutot, Christina Maconfy, Hans Lee, Jason Akulian, Lonny Yarmus, David Feller-Kopman, Tao Dong, John Wrightson, Najib Rahman

**PA3105**  
**The atypical cells in the pleural effusion smears stained with May Grunwald Giemsa - is it a new possible tool not to overlook malignancy?**  
Elżbieta Magdalena Grabczak (Warszawa, Poland), Piotr Korczyński, Agnieszka Wiśniewska, Michal Mierzzejewski, Malwina Soltysiak, Łukasz Koperski, Rafał Krenke

---

**Pre-congress content**  
**Session 370**  
13:15 - 14:15

**E-poster:** Clinical features and new biomarkers of asthma, COPD and chronic cough

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care  
Pulmonary function testing  
Cell and molecular biology  
Epidemiology  
Physiology  
Public health

**Chairs:** Stephanie Korn (Mainz, Germany), Marek Lommatzsch (Rostock, Germany)

**PA3106**  
**The role of cathepsin S in the development of inflammation in patients with severe bronchial asthma**  
Irina Demko (Krasnoyarsk (Krasnoyarsk Krai), Russian Federation), Angelina Kraposhina, Elena Sobko, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva

**PA3107**  
**Patient characteristics and treatment of chronic rhinosinusitis with nasal polypos (CRSwNP) in Canada**  
Alison Deighton (North Vancouver, Canada), Shelagh Szabo, Alain Gendron, Roxana Dragan, Gilles Detilleux, Heather Prior, Stephen Noorduyn
| PA3108 | Asthma diagnosis and severity assessment, can microRNAs help? A pilot study | Aref Kyyaly (Southampton, United Kingdom), Tilman Sanchez-Elsner, Ramesh Kurukulaaratchy, Syed Hasan Arshad |
| PA3109 | Anti-IL5 therapy could prevent lung function decline in severe eosinophilic asthma: data from the belgian severe asthma registry | Sophie Graff (Liège, Belgium), Guy Brusselle, Shane Hanon, Carine Sohy, Lieven Dupont, Rudi Peche, Alain Michils, Charles Pilette, Guy Joos, Renaud Louis, Florence Schleich |
| PA3110 | Intermediate-onset asthma: similarities and differences with early and late-onset | Martina Turrin (CORDENONS, Italy), Michele Rizzo, Silvia Tonin, Kim Lokar Oliani, Matteo Bonato, Manuel Cosio, Marina Saetta, Simonetta Baraldo |
| PA3111 | Raised FeNO in optimally-treated severe asthma identifies persistent eosinophilic chemotactic pull towards the airway | Simon Couillard (Oxford, United Kingdom), Rahul Shrimanker, Gareth Hynes, Catherine Borg, Clare Connolly, Anna Hayman, Samantha Thuiborn, Angela Moran, Sarah Poole, Timothy Powell, Rekha Chaudhuri, Adel H Mansur, Lorcan P Megarvey, Liam G Heaney, Stephen Fowler, Peter Bradding, Ian D Pavord, Timonthy S C Hinks |
| PA3112 | Markers of pulmonary injury and inflammation are elevated in the serum of patients with chronic cough | Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), David Lamb, Rachel Dockry, Anita Schoenleber, Ewald Benediktus |
| PA3113 | Transcriptomic profiles of eosinophilic asthmatic patients classified according to their atopic status | Sara Gerday (Liège, Belgium), Florence Schleich, Françoise Guissard, Monique Henket, Virginie Paulus, Renaud Louis |
| PA3114 | Aero-allergen sensitization in a general population: data from the LEAD population cohort study | Franziska Kölì (Wien, Austria), Marie-Kathrin Breyer, Sylvia Hartl, Gabriele Kohlböck, Otto Burghuber, Wolfgang Pohl, Torbenigsgaard, Emiel Wouters, Robab Breyer-Kohansal |
| PA3115 | Immunoglobulin G and subclasses in COPD exacerbator phenotype: levels in exacerbation time and clinical stability | Jordi Juanela Pla (Mataro, Spain), Ramon Boixeda Viu, Isabel Moreno Hernandez, M. Carmen De La Torre Terron, Maria Bartolomé Regué, Anna Serrano Fores, Ainhoa Montero Rodriguez, Elisabet Palomera Fanegas, Mateu Serra Prat, Jordi Almirall Pujol |
| PA3116 | Impact of blood eosinophil variability in asthma: a real-life population study. | Núria Toledo Pons (Palma De Mallorca, Spain), Job F.M. Van Boven, Josep Muncunill, Aina Millàn Pons, Miguel Román-Rodríguez, Bernardo López-Andrade, Carlos Almonacid, Diurbis Velasco Álvarez, Janwillem W.H. Kocks, Borja G. Cosio |
| PA3117 | Inflammatory phenotypes of severe exacerbation of COPD, a clinico-laboratory characterization. | Karthikeyan Ramaraju (Coimbatore (Tamil Nadu), India), Karthikeyan Ramaraju, Ramalingam Sankaran, Anupama Murthy Kaza, Thiyagarajan Sairam |
| PA3118 | Higher expression of lipooxygenase and cyclooxygenase pathways in bronchial than alveolar lavage from allergic asthmatics | Nicole van der Burg (Lund, Sweden), Henning Stenberg, Zuzanna Diamant, Leif Bjerner, Ellen Tufvesson |
| PA3119 | Adult women with asthma and diabetes have increased body weight and fat percentage compared to women with only diabetes. | Apostolos Bossios (Stockholm, Sweden), Daniel P. Andersson, Daniel Eriksson-Hogling, Mikael Rydén |
| PA3120 | Sensitization to aeroallergens is dominant in overweight to obese asthmatic males but not in females. | Bright Nwaru (Gothenburg, Sweden), Hannu Kankaanranta, Madeleine Rådinger, Jan Lötvall, Bo Lundbäck, Linda Ekerljung, Apostolos Bossios |
| PA3121 | Plasma adiponectin and risk of asthma: observational and Mendelian randomization studies in up to 557,801 individuals | Maria Nielsen (Herlev, Denmark), Børge Nordestgaard, Marianne Benn, Yunus Çolak |
| PA3122 | Clinical variables and protein biomarkers associated with blood eosinophil count and asthma in young adults | Maura Kere (Stockholm, Sweden), Sophia Björkander, Susanna Klevebro, Maria Ödling, Sandra Ekström, Ida Mogensen, Marianne Van Hage, Anna Bergström, Inger Kull, Erik Melen |
| PA3123 | Eosinophil-derived neurotoxin levels in serum are associated with asthma-like symptoms | Robert Moverare (Uppsala, Sweden), Magnus Molin, Andrei Malinovschi, Elefteria Pertsinidou, Anders Sjölander, Christer Janson |
| PA3124 | Sex Differences in Severe Asthma | Adnan Azim (Bournemouth (Dorset), United Kingdom), Clair Barber, Laurie Lau, Matthew Harvey, Paddy Dennison, Thomas Brown, Thomas Jones, Scott Elliott, Anoop Chauhan, Ramesh Kurukulaaratchy, Peter Howarth |
Pre-congress content  Session 371  13:15 - 14:15

E-poster: Clinical problems associated with cough, pleura and respiratory health status

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** General respiratory patient care, Endoscopy and interventional pulmonology, Respiratory intensive care, Public health, Palliative care, Imaging, Surgery, Epidemiology

**Chairs:** Katharina Buschulte (Heidelberg, Germany), Peter Kardos (Frankfurt am Main, Germany)

---

**PA3125**  Sputum Interleukin 5 in eosinophilic and non-eosinophilic severe asthma  
Adnan Azim (Bournemouth (Dorset), United Kingdom), Clair Barber, Kerry Gove, Thomas Brown, Thomas Jones, Scott Elliot, Anoop Chauhan, Peter Howarth

---

**PA3126**  Analysis of the microbial profile and antimicrobial resistant pattern of empyema thoracis  
Chimaobi Nwagboso (Calabar, Nigeria), Bassey Ekeng, Ernest Ochang, John Eze, Chidiebere Echieh, Stephen Ogbudu, Anietimfon Etiuma, Okon Bassey

---

**PA3127**  Role of C-reactive protein in discriminating complicated and uncomplicated parapneumonic effusion from malignant and tuberculous pleural effusion  
Yana Kogan (HAIFA, Israel), Edmond Sabo, Majed Odeh

---

**PA3128**  Initial management of well tolerated but voluminous primary pneumothorax: intercostal chest tube versus needle aspiration  
Nidhal Belloumi (la manouba, Tunisia), Imene Bachouch, Hana Mrassi, Nourelhouda Khezami, Imene Nouira, Cheima Habbouria, Fatma Chermitt Ben Abdallah, Soraya Fenniche

---

**PA3129**  Capnography monitoring of physician-led procedural sedation procedures during respiratory medicine service  
Jurgen Herre (Cambridge (Cambridgeshire), United Kingdom), Gareth Corbett, Peter Pugh, Teik Choon See, David De Monteverde-Robb, Rafael Torrejon Torres, Rhodri Saunders, Catherine Leonard, Amit Prakash

---

**PA3130**  The effects of acute sore throat and cough on health-related quality of life (HRQOL) in the 2020 US general population  
Graca Coutinho (Slough, United Kingdom), John E. Ware, Jr., Graça Coutinho, Adam B. Smith, Evi Tselenti, Anuradha Kulasekaran

---

**PA3131**  A much shorter core outcome set (COS) for measuring the health-related quality of life (HRQOL) effects of common acute respiratory symptoms  
Adam Smith (Hull, United Kingdom), John E. Ware Jr., Graça Coutinho, Evi Tselenti, Anuradha Kulasekaran

---

**PA3132**  Dyspnea-induced Limitation (DYSLIM), a self-administered questionnaire to evaluate dyspnea-related activity limitation in respiratory disease>  
Thierry Perez (Lille Cedex, France), Nicolas Roche, Pierre Régis Burgel, Pascale Surpas, Ari Chaouat, Hilario Nunes, Frédéric Herengt, Jean Marie Grosbois, Gilles Garcia, Joel Coste

---

**PA3133**  Prognostic factors for survival in patients with long-term oxygen therapy  
Saša Rink (Ljubljana, Slovenia), Maja Badovinac, Anze Zgank, Frosina Markoska, Matevz Harlander

---

**PA3134**  Impact of a diagnostic framework for chronic cough  
Allan Klitgaard Sørensen (Vejle, Denmark), Anders Lokke, Jannie Frølund, Ole Hilberg

---

**PA3135**  Morphine use in the treatment of dyspnea in terminally ill patients.  
Licia Zanol Lorenzini Stanzani (Lisbon, Portugal), Mariana Marques, Matheus Martins, Wilton Vieira, Fabio Amorim, Ricardo Carvalho

---

**PA3136**  Morphine and oxygen use in terminally ill patients with dyspnea in Brazil.  
Licia Zanol Lorenzini Stanzani (Lisbon, Portugal), Mariana Marques, Matheus Martins, Wilton Vieira, Fabio Amorim, Ricardo Carvalho

---

**PA3137**  IPC use in non-malignant effusions  
Avinash Aujayeb (newcastle, Mauritius), Richard Davidson

---

**PA3138**  Characterization of Medication Errors in a Medical Intensive Care Unit of a University Teaching Hospital in South Korea  
SUNG WOOK KANG (Seoul, Republic of Korea), Ji Seob Yug, Eun Kyoung Chung, Cheon Woong Choi
Autologous Blood Patch Pleurodesis for Persistent Air Leak: A Case Series.
Jeat Thong Tang (PENAMPANG, Malaysia), Shan Min Lo, Muhammad Khairul Taufiq Rosli, Hema Yamini Ramarmuty, Kunji Kannan Sivaraman Kannan

The best cut-off value in predicting intensive care in the rapid response system: The preliminary study
Chang Yoo Leu (Chuncheon, Republic of Korea), Youlim Kim

The role of CTPA in investigating a patient with a pleural effusion of unknown etiology
Vassilis Vlahakos (ATHENS, Greece), Theodoros Karampitsakos, Ourania Kotsiou, Likurgos Kofilakes, Evangelos Markozannes, Ilia Papanikolaou, Nikolaos Koulouris, Katerina Dimakou, Konstantinos Gourgoulianis, Mina Gaga, Spyros Zakynthinos, Ioannis Kalomenidis

Refractory chylothorax: Midodrine as a novel therapeutic option
Khalil Ur Rehman (London, United Kingdom), Liju Ahmed, Parthipan Sivakumar

Ecothorax for differential diagnosis in elderly patients hospitalized in a healthcare residence during the new coronavirus 2019 pandemic
Simoneeta Vernocchi (Gallarate, Italy), Teresa Serini, Andreas Aceranti, Annalisa Salsa

Defining health states with visual analogue scale and Leicester Cough Questionnaire in chronic cough
Katie Rhatigan (Denmark Hill, United Kingdom), Peter Siu Pan Cho, Peter Siu Pan Cho, Hannah V Fletcher, Caroline J Jolley, Richard D Turner, Surinder S Birring, Surinder S Birring, Peter S P Cho

Clinically meaningful thresholds for change in cough severity visual analogue scale in chronic cough
Katie Rhatigan (Denmark Hill, United Kingdom), Peter Siu Pan Cho, Peter Siu Pan Cho, Meril Oras, Hannah V Fletcher, Caroline J Jolley, Richard D Turner, Surinder S Birring, Surinder S Birring, Peter S P Cho

E-poster: Paediatric respiratory infections: chronic infection, vaccination and lung function
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
Method(s): Epidemiology General respiratory patient care Pulmonary function testing Public health
Chairs: Paul McNamara (Liverpool (Merseyside), United Kingdom), Mieke Boon (Wilsele, Belgium)

Influenza vaccination in children with high-risk chronic diseases
Elpis Hatzigorou (Thessaloniki, Greece), Evangelia Argyropoulou, Alexandra Soldatou, John Tzanakas

Parents' attitude towards seasonal vaccination of children against an influenza virus
Roman Bontsevich (Belgorod, Russian Federation), Alina Mikhailova, Zhanna Zhdanova, Darya Kutsenko, Ann Adonina

Characterisation of severity in paediatric chronic suppurative lung disease
Virginia Alessandrini (Cambridge, United Kingdom), Stefan A. Unger

Fate or missed opportunities - challenges in diagnosing paediatric resistant tuberculosis in Germany
Hannah Schäfer (Herten, Germany), Michael Barker, Peter Follmann, Annette Günther, Petra Kaiser-Labusch, Sebastian Kerzen, Christian Schmidt, Katharina Schütz, Florian Stehling, Nina Timmesfeld, Paul Vöhringer, Folke Brinkmann

Impaired response to 13-valent pneumococcal conjugate vaccine (PCV13) in children with recurrent respiratory infections and chronic cough.
Moataz Elashmawy (Cambridge (Cambridgeshire), United Kingdom), James Baker, Theofilos Polychronakis

Structured Light Plethysmography (SLP) in COVID-19 children with acute respiratory symptoms
Michele Ghezzi (Bergamo, Italy), Francesca Riccaboni, Emma Longoni, Martina Pasquetti, Marco Ugo Sartorio, Andrea Farolfi, Michele Piazza, Laura Tenero, Giorgio Piacentini, Enza D'Auria, Gian Vincenzo Zuccotti

Mechanistic model based meta-analysis for paediatric respiratory tract infection prophylaxis trial design
Alexander KULESZA (Lyon, France), Simon Arsène, Aude Chevalier, Claire Couty, Igor Faddeenkov, Natacha Go, Solene Granjeon-Noriot, Lorenz Lehr, Christian Pasquali

Reopening of schools and pediatric ER admissions during SARS-CoV-2 pandemic in Italy
Luigi Matera (Rome, Italy), Raffaella Nenna, Antonella Frassanito, Laura Petrarca, Enrica Mancino, Greta Di Mattia, Domenico Paolo La Regina, Valentino Rizzo, Hana Zeric, Fabio Midulla

Case Series of COVID-19 Disease in Pediatric Chronic Lung Diseases
Ismail Güzelkaş (Ankara, Turkey), Nagehan Emiralıoğlu, Dilber Ademhan Tural, Beste Özsze, Birce Sunman, Halime Nayır Büyükşahin, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper
Is Xpert MTB/Rif Ultra superior to Xpert MTB/Rif for the diagnosis of tuberculosis in children in Uzbekistan
Sanjar Sultanov (Tashkent, Uzbekistan), Nargiza Parpieva, Kozim Mukhamedov, Laziz Turaev, Rafis Rakhmatulin, Jamshid Gadoev

Immunological parameters in Down syndrome children with and without recurrent lower respiratory tract infections
Mariska De Lausnay (Melle, Belgium), Tine Boiy, Stijn Verhulst, Kim Van Hoorenebeek

Nasopharyngeal carriage of Streptococcus pneumoniae serotypes among children in The Republic of Khakassia, Russia.
Natalie Alyabieva (Moscow, Russian Federation), Olga Ponomarenko, Tatiana Komyagina, Anna Lazareva

Nasal Nitric Oxide Sampling In 0-5-year-old Patients With Cystic Fibrosis, Primary Ciliary Dyskinesia and Healthy Controls
Maja Valentin Kragh (Copenhagen, Denmark), Mathias G. Holgersen, June K. Marthin, Kim G. Nielsen

Pre-congress content  Session 373 13:15 - 14:15
E-poster: Assessing the impact of COVID-19 on lung function
Aim: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care, Pulmonary function testing, Imaging, General respiratory patient care, Pulmonary rehabilitation, Physiology, Public health
Tag(s): COVID
Chairs: Frederik Trinkmann (Heidelberg, Germany), Monika Franczuk (Warszawa, Poland)

Sequential cardiopulmonary exercise tests in patients post COVID-19
Arik Bernard Schulze (Münster, Germany), Georg Evers, Irina Osiaevi, Matthias Boentert, Richard Vollenberg, Rainer Wiewrodt, Phil-Robin Tepasse, Ali Yilmaz, Michael Mohr

Pulmonary function 45 days after COVID-19 hospitalization: a multicentre cohort study in Belo Horizonte, Brazil.
Eliane Viana Mancuso (Belo Horizonte, MG, Brazil), Carolina Marinho, Jacqueline Das Graças Ferreira De Oliveira, Aline Priscila Batista, Alvaro Lucca Torres Brandão, Ana Sofia Mitre Leite, Jose Reinaldo Correia Roveda, Pedro Chaves Ferreira, George Luiz Lins Machado Coelho, Bruno Horta Andrade, Arnaldo Santos Leite, Valeria Maria Augusto

Determination of exercise capacity in long COVID patients
Aurélien Bringard (Geneva, Switzerland), Ivan Guerreiro, Timothée Fontolliet, Romain Messe, Garance Kopp, Paola Soccal, Frédéric Lador

Evaluation of post-COVID functional capacity and oxygen desaturation using 6-minute walk test- An observational study
Pranav Modi (Mumbai, India), Sandhya Kulkarni, Girija Nair, Rhea Kapur, Soham Chaudhary, Deepak Langade, Abhay Uppe

CPET evidence of dysfunctional breathing after SARS-CoV2 in patients with persistent dyspnea
Isabelle Fréaud (Sion, Switzerland), David Lawi, Petrut Vremaroiu, Andreea Vremaroiu-Coman, Grégoire Gex, Pierre-Olivier Bridevaux

Cardiopulmonary exercise testing to assess persistent symptoms at 6 months in people with COVID-19 who survived hospitalisation – A pilot study.
Tristan Bonnevie (Saint Léger Du Bourg Denis, France), David Debeaumont, Fairuz Boujibar, Egantline Ferrand-Devouge, Elise Artaud-Macari, Fabienne Tamion, Francis-Edouard Gravier, Pauline Smondack, Antoine Cuvelier, Jean-François Muir, Kevin Alexandre

Inspiratory and sensory responses to rapid bilateral stimulation of the phrenic nerves using three different shaped magnetic coils
Kyle Boyle (Zurich, Switzerland), Philipp Eichenberger, Patrick Schön, Christina Spengler

Impact of facemasks during a submaximal exercise test in healthy adults.
William Poncin (Bruxelles, Belgium), Charlie Vander Straeten, Adrien Schalkwijk, Gregory Reychler

Lung Function and Lung Mechanics in Post-COVID-19 Patients: What we can Learn?
Sergio Ferreira (São José dos Campos - SP, Brazil), Sergio Ferreira, Wendel S Fernandes, Ricardo C Alves, Patricia B Fialho, Maysa A R Brandao-Rangel, Claudio R Frison, Rodolfo P Vieira
PA3168 The impact of time of mechanical ventilation and hospitalization on functional capacity after discharge in patients with COVID-19 pneumonia
Bruna Scharlack Vian (Campinas, Brazil), Lais Bacchin De Oliveira, Ana Lucia Cavallaro Baraúna Lima, Maité Vasconcelos Luz, Paulo José De Souza Junior, Rodolfo Augusto Da Silva Arruda, Mariângela Ribeiro Resende, Lucieni De Oliveira Conterno, Paulo Roberto Mendes, Ligia Roceto Ratti, Mônica Corso Pereira

PA3169 Early physiotherapy improves outcomes in Acute Respiratory Distress Syndrome in Covid-19 pneumonia
Ludovica Capitelli (San Nicola la Strada, Italy), Antonio Prisco, Dario Cuomo, Roberta Cianci, Miriam Buonincontro, Rosalba Donizetti, Francesco Squillante, Vincenzo Bocchino

PA3170 Use of near-infrared spectroscopy to monitor oxygen saturation during 6 minute walk test: a pilot study with patients discharged for COVID-19
Ligia Roceto Ratti (Valinhos, Brazil), Lais Bacchin De Oliveira, Ana Luíca Cavallaro B. Lima, Bruna Scharlack Vian, Monica Corso Pereira, Rodrigo M. Forti, Andrés Fabian Quiroga Soto, Rickson C Mesquita

PA3171 Factors affecting carbon monoxide diffusion capacity in early convalescence phase of severe COVID19 patients
Ivan Cekerevac (Kragujevac, Republic of Serbia), Ljiljana Novkovic, Romana Susa, Stefan Simovic

PA3172 Mouse models ARDS of viral etiology (influenza): the possibility of dynamic intravital assessment of lung tissue using computed tomography
Pavel Gavrilov (St. Petersburg, Russian Federation), Artyom Azarov, Lolita Pichkur, Tatjana Vinogradova, Evgenij Sokolovich, Petr Yablonsky

PA3173 Physiological and symptoms characteristics of survivors of COVID-19 associated pneumonia, with resting normoxia and exercise-induced desaturation.
Michele Vitacca (Gussago (BS), Italy), Mara Paneroni, Giuseppe Brunetti, Annalisa Carlucci, Bruno Balbi, Antonio Spanevello, Nicolino Ambrosino

PA3174 Persistent chronic dyspnoea following COVID-19 infection
Neeraj Shah (New Malden (Surrey), United Kingdom), Rebecca D’Cruz, Eui-Sik Suh, Alex West, Amy Dewar, Katherine Myall, Joecln Hall, Nicholas Hart, Patrick Murphy, Bhaskar Mukherjee, Georgios Kaltsakas

PA3175 Impact of COVID-19 pneumonia on pulmonary function, radiographic imaging and quality of life in a cohort of survivors
Marian Dimabuyu (Quezon City, Philippines), Claudette Mangahas, Rommel Reyes

PA3176 Physiological cost of walking after COVID-19 pneumonia
Salma Mokaddem Mohsen (Tunis, Tunisia), Asma Chaker, Sahar Chakroun, Saloua Ben Khamsa Jameledine

Pre-congress content Session 374 13:15 - 14:15
E-poster: Occupational COVID-19 and respiratory infections
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Respiratory critical care  Sleep and breathing disorders
Method(s): General respiratory patient care  Cell and molecular biology  Public health  Epidemiology  Pulmonary function testing  Physiology  Imaging
Tag(s): COVID

Chairs: Sara De Matteis (Cagliari, Italy), Christopher Carlsten (Vancouver (BC), Canada)

Exacerbations of occupational chronic obstructive pulmonary disease due to industrial aerosols containing nanoparticles after recovering from COVID-19
Lyubov Shpagina (Novosibirsk, Russian Federation), Marina Zenkova, Ilya Shpagin, Olga Kotova, Evgeniya Logashenko, Anatolij Sarykin, Alfiya Tsygankova, Natalya Kamneva, Ekaterina Anikina, Dmitrij Gerasimenko, Kristina Likhenko-Logvinenko

Staff mask contamination on a respiratory admissions unit with COVID-19 patients
Ahmed Fouda (Middlesex, United Kingdom), Abdulrahman Abouzaid, Daniela Cristea-Nicoara, Gerrit Woltmann, Christopher W Holmes, Julian W Tang

Investigation of SARS-CoV-2 RNA on Particulate Matters: A multicentre study in Turkey
<table>
<thead>
<tr>
<th>PA3180</th>
<th>Burnout among Healthcare Workers during COVID-19 Pandemic in Aceh, Indonesia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rinal Dianto (Banda Aceh, Indonesia), Ferry Dwi Kurniawan, Subhan Rio Pamungkas, Marty Mawarpury, Teuku Zulfikar</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3181</th>
<th>Occupational and environmental exposure to SARS-CoV-2 in and around infected mink farms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myrna M.T. de Rooij (Utrecht, Netherlands), Renate Hakze-Van Der Honing, Marcel M. Hulst, Frank Haders, Marc Engelsma, Wouter Van De Hoef, Kees Meliefste, Sigrid Nieuwenweg, Bas B. Oude Munnink, Isabella Van Schothorst, Reina S. Sikkema, Arco N. Van Der Spek, Marcel Spierenbrug, Jack Spithoven, Ruth Bouwstra, Robert-Jan Molenaar, Marion Koopmans, Arjan Stegeman, Wim H.M. Van Der Poel, Lidwien A.M. Smit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3182</th>
<th>Potential environmental transmission routes of SARS-CoV-2 inside a large meat processing plant experiencing COVID-19 clusters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myrna M.T. de Rooij (Utrecht, Netherlands), Reina S. Sikkema, Martijn Bouwknegt, Yvette De Geus, Kamelia Stanoeva, Sigrid J. Nieuwenweg, Ceder Raben, Wietse Dohmen, Dick J.J. Heederik, Chantal Reusken, Adam Meijer, Eelco Franz, Marion Koopmans, Lidwien A.M. Smit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3183</th>
<th>Occupational exposure to mineral fibers and incidence of recurrent chest infections in insulators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subhbrata Moitra (Edmonton, Canada), Ali Farshchi Tabrizi, Dina Fathy, Linda Henderson, Fadi Khadour, Muhammad T. Naseem, Mohamed Osman, Lyle Melenka, Paige Lacy</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3184</th>
<th>SARS-CoV-2 infection in healthcare workers in Northern Italy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francesco Bini (Pavia (PV), Italy), Alessandro Maria Marra, Bruno Dino Bodini, Angelo De Lauretis, Maria Chiara Papetti, Stefano Carlo Zuccheti, Paola Faverio</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3185</th>
<th>The occurrence of respiratory infections in relation to the occupation in a working-age population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jouni J.K. Jaakkola (Oulu, Finland), Taina K. Lajunen, Rachel Nadif, Maritta S. Jaakkola</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3186</th>
<th>Occupation and the occurrence of respiratory infections among adults with newly diagnosed asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maritta S. Jaakkola (Oulu, Finland), Taina K. Lajunen, Rachel Nadif, Jouni J.K. Jaakkola</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3187</th>
<th>Cumulative incidence of SARS-CoV-2 infections in health workers in Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albert Nienhaus (Hamburg, Germany), Jan Felix Kersten, Martin Platten, Rita Cranen, Claudia Peters, Hilmar Wisplinghoff, Alexander Daniel Bach, Guido Michels</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3188</th>
<th>Impact of particle exposure systems on acute effects in an in vitro alveolar model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joshua Bateman (Dinas Powys, United Kingdom), Rachel Smith, Sarah Robertson, Alison Buckely, Matthew Wright, Shareen Doak, Martin Clift</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3189</th>
<th>Pulmonologists’ sleep quality during COVID-19 pandemic: a nation-wide survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josué Pinto (Porto, Portugal), Joana Patrício, Susana Sousa, Marta Drummond</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3190</th>
<th>Perception of anxiety, depression and insomnia in Tunisian healthcare workers during COVID19 pandemic.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Islam Mejri Ep Ajili (Hamamalif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Imen Yousfi, Selsabil Daboussi, Samira Mhamdi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3191</th>
<th>Does being infected with COVID-19 have a psychological impact on healthcare workers?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Islam Mejri Ep Ajili (Hamamalif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Asma Riahi, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3192</th>
<th>Clinical course and exposure characteristics of Covid-19 confirmed healthcare personnel at the lung center of the philippines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faye Bautista (Las Pinas, Philippines), Benilda Galvez, Clarizze Francesca Moje-Tapang</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3193</th>
<th>Late Breaking Abstract - Estimating the relationship between environmental exposures and acute exacerbations of COPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryan Ross (Lachine, Canada), Dany Doiron, Pei Zhi Li, Andrea Benedetti, Jean Bourbeau</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3194</th>
<th>Late Breaking Abstract - Air and surface contamination with SARS-CoV-2 in rooms of infected nursing home residents: the Netherlands</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>PA3195</th>
<th>Late Breaking Abstract - Differential toxicities of particulate matter components linked to air pollution and adverse health effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anna-Karin Larsson-Callerfelt (Lund, Sweden), Sofie Orell, Nilofar Faraqui, Jenny Rissler, Nora Marek, Daniel Kalbermatter, Camilla Dondi, Lena Scholtz, Ute Resch-Genger, Linda Elowsson Rendin, Konstantina Vasilitou, Michael Shaw, Monica Käredal</td>
<td></td>
</tr>
</tbody>
</table>
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases | Thoracic oncology

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

Tag(s): COVID

Chairs: Linnea Hedman (Luleå, Sweden), Özen K Basoglu (Izmir, Turkey)

PA3196  Relationship between tobacco and COVID-19
Eva B. Cabrera Cesar (Malaga, Spain), Esther Sanchez Alvarez, Alvaro Martinez Mesa, Javier Lopez Garcia, Nuria Reina Marfil, Jose Luis Velasco Garrido

PA3197  Quit smoking search interest in Google Trends from Turkey, UK, France, Italy, and Germany: What happened during the COVID-19 pandemic?
Mehmet Uysal (Istanbul, Turkey), Elif Yelda Niksarlioglu, Atilla Cifter, Aslı Çaroğlu

PA3198  Coping with anxiety during COVID-19 pandemics- correlations with tobacco dependence, social determinants, and COVID-19 history
Letitia Trofor (Iasi, Romania), Oana-Elena Rohozneanu, Mona Dobrin, Ilincu Untu, Dania Radu, Antigona Trofor

PA3199  Role of tobacco exposure in the course of COVID-19 disease and the impact of the disease on smoking behavior
Dilek Karadoğan (Rize, Turkey), Tahsin Gökhan Telatar, Mehmet Halit Baykal, Burcu Aykanat Urtseven

PA3200  Smoking of healthcare workers(HCWs) working in reference hospitals during the first wave of the COVID-19 pandemic

PA3201  Effect of COVID 19 restrictive measures on tobacco, cigarette or e-cigarette consumption
Garifallia eirini Perlepe (Larissa, Greece), Ioannis C Lampropoulos, Foteini Malli, Ilias Dimeas, Dimitrios Raptis, Zoe Daniil, Konstantinos I Gourgoulianis

PA3202  Relationship between filter ventilation and Tar, Nicotine and CO emissions of cigarettes
Efthimios Zervas (Patra, Greece), Emmanouil Konstantinidis, Niki Matsouki, Efi Drimili, Zoe Gareiou, Paraskevi Katsaounou

PA3203  Detailed emissions of conventional, electronic and heated cigarettes
Efthimios Zervas (Patra, Greece), Niki Matsouki, Evangelia Bekou, Emmanouil Konstantinidis

PA3204  Point of Sale Display of Plain Cigarette Packages : Finger prints of the industry
Elif Dagli (Istanbul, Turkey), Ummuhan Sonmez, Murat Guner, Tanzer Gezer, Pınar Ay, Osman Elbek, Fusun Yildiz, Murat Ceyhan

PA3205  Can Plain Packaging be Effective without a Standard Design?
Elif Dagli (Istanbul, Turkey), Pınar Ay, Ummuhan Sonmez, Tanzer Gezer, Osman Elbek, Fusun Yildiz, Murat Guner, Murat Ceyhan

Paulina Majek (Katowice, Poland), Mateusz Jankowski, Bartłomiej Nowak, Aleksandra Gil, Maksymilian Macherski, Jan Eugeniusz Zejda, Grzegorz Marek Brożek

PA3207  Smoking cessation activity in respiratory outpatient clinics
Andrew Read (London, United Kingdom), Kher Ng, Vanessa Alderman

PA3208  Tobacco products exposure status of students
Dilek Karadoğan (Rize, Turkey), Yalçın Kanbay, Özgür Önal

PA3209  An evaluation of the hospital smoking-cessation services in Portugal
Sofia Belo Rava (Covilhã, Portugal), Mariana Silva Ribeiro, Hilson Cunha Filho

PA3210  The Effect of Gender Difference on the Smoking Cessation
Neslihan Ozcelik (Rize, Turkey), Songul Ozyurt

PA3211  5 years’ experience of the Quitline in Hungary-where do we go next?
Erika Pataki (Budapest, Hungary), Erzsebet Tóth, Diana Darwinsh, Zsuzsanna Cselko, Krisztina Bogos
**Does Covid-19 affects smokers differently?**
Mariem Ferchichi (Tunis, Tunisia), Ikbel Khalfallah, Sabrine Louhaichi, Nouha Boubaker, Jamel Ammar, Basma Hamdi, Agnes Hamzaoui

**Late Breaking Abstract - Disease trajectories in GOLD B chronic obstructive pulmonary disease (COPD) patients – nationwide data from Denmark**
Anders Lokke (Højbjerg, Denmark), Ole Hilberg, Jesper Lykkegaard, Rikke Ibsen, Georgios Stratelis, Sofie de Fine Licht, Peter Lange

---

**Pre-congress content**

**Session 376  13:15 - 14:15**

**E-poster: New insights into lung function testing**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s):** Digital health

**Chairs:** Ferenc Peták (Szeged, Hungary), Natalia Belousova (Toronto, Canada)

**PA3214**
**Certain conditions of respiratory assessment affect breathing frequency and awareness.**
Olivier Van Hove (Bruxelles, Belgium), Olivier Debeir, Vasileios Andrianopoulos, Dimitri Leduc, Gael Deboeck, Bruno Bonnèchère

**PA3215**
**Membrane and capillary component of the lung Diffusion capacity in obesity and bariatric Surgery**
Na Zhou (Brussels, Belgium), Corentin Scoubeau, Vitalie Faoro

**PA3216**
**Simultaneous measurement of multiple breath washout and functional lung MRI**
Anne-Christinaene Kentgens (Grindelwald, Switzerland), Orso Pusterla, Orso Pusterla, Orso Pusterla, Orso Pusterla, Grzegorz Bauman, Francesco Santini, Francesco Santini, Christoph Corin Willers, Oliver Bieri, Oliver Bieri, Philipp Latzin, Kathryn Ramsey

**PA3217**
**SPAR (Symmetric Projection Attractor Reconstruction): Identifying novel respiratory biomarkers from waveform morphology and variability**
Miquel Serna Pascual (London, United Kingdom), Ying Huang, Philip Aston, Joerg Steier, Gerrard F Rafferty, Manasi Nandi

**PA3218**
**Impact of incorporating the evaluation of full inflation recommended in the 2019 spirometry standards on the evaluation of spirometry acceptability**
Phil Lake (monmouth, United Kingdom), Kevin McCarthy, Reza Farienfar, Dawn Patterson, Marilyn Raffensperger

**PA3219**
**Development of an experimental evaluation of work of breathing in patients with excessive dynamic airway collapse (EDAC)**
Léa Razakamanantsoa (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Jorys Achard, Antoine Cuvelier, Maxime Patout

**PA3220**
**Implementation of a human mainstream capnograph to rats using 3D-printed adapter**
Gergely H. Fodor (Szeged, Hungary), Almos Schranc, Jozsef Tolnai, Ferenc Petak

**PA3221**
**Validation of manual and automated wheezing detection from audio recordings**
Neil Skjodt (Lethbridge (AB), Canada), Samaneh Sarraf, Ronald S. Platt, Kevin Chan

**PA3222**
**Respiratory function monitoring in amyotrophic lateral sclerosis patients: 1-year analysis**
Sônia Isabel Silva Guerra (Viseu, Portugal), João Portela, Filipa Carriço, Daniela Rodrigues, Margarida Redondo, Tiago Pinto, Miguel Gonçalves, Marta Drummond

**PA3223**
**CLE-test with cold air as provocation factor – a feasibility study**
Jon Andrew Hardie (Bergen, Norway), Sandra Studheim, Signe Bo, Ola Orange Røksund, Håkon Kvidal, Hege Synnøve Clemm

**PA3224**
**New insights into small airway function in Type 2 Diabetes by Impulse Oscillometry**
Nagesh Dhadge (Pune (Maharashtra), India), Sundep Salvi, Vanjare Nitin, Shweta Rasam, Sapna Madas, Kameshwar Rao, Vandana Das

**PA3225**
**High accuracy of automated respiratory rate readings in a novel, non-contact home monitor**
William Do (Oxford, United Kingdom), Christopher Wheeler, Maarten De Vos, Richard Russell, Mona Bafadhel
Clinical, radiological and functional outcomes in patients with COVID-19 pneumonia: A prospective observational study
Pietro Gianella (Lugano, Switzerland), Elia Rigamonti, Marco Marando, Adriana Tamburello, Lorenzo Grazioli, Gianluca Argentieri, Carla Puligheddu, Alberto Pagnamenta, Marco Pons, Tanja Fusi-Schmidhauser

The absolute lobar and pixel analysis of COVID-19 pneumonia in CT images
Elif Soya (Izmir, Turkey), Nur Ekenel, Serkan Kocoglu, Recep Savas, Minsuok Kim, Ozkan Doganay

The correlation between the extent of radiological attainment of COVID-19 and oxygen demand
Riahi Asma (Mateur, Tunisia), Mhamdi Samira, Yousfi Imen, Daboussi Salsabil, Mejri Islam

Abdul Rasheed Qureshi (Lahore, Pakistan)

Chest x-ray follow-up for patients admitted with SARS-COV-2 infection in Leeds Teaching Hospitals (LTHT)
Jessica Bradley (Leeds, United Kingdom), Catherine Campbell, Rashad Salman

Chest CT findings in 1st peak of COVID-19 pandemic in a U.K. tertiary centre.
Rajashri Patil (Oadby, United Kingdom), Jiaying Kuah, Ian Brozik, Indrajeet Das

The role of CT Thorax scans in triaging suspected cases of Covid-19
Mary Flynn (London, United Kingdom), Hyun Park, K Aguilaresguerra, A Fawzi, S Saikia, A Chapman, S Sharma

X-ray of the lungs and neural networks: classification of pneumonia and COVID-19
Liubov Parolina (Moscow, Russian Federation), Vadim Efremtsev, Nikolay Efremtsev, Evgeniy Teterin, Egor Bazavluk, Natalia Doctorova

Persistent radiological abnormalities in correlation to lung function in survivors of severe COVID-19 pneumonia
Christine Seebacher (Bolzano (BZ), Italy), Lucio Bonazza, Patrizia Pernter, Federica Ferro

Is it really infection? A pictorial review of chest imaging in children and adolescents
Alice Tee (London, United Kingdom), Laura Marsland, Atul Gupta, Saira Haque

Myocardial dysfunction in patients (pts) after severe coronavirus disease (COVID-19)
Oleksandr Feesenko (Slobozhanske, Ukraine), Tetiana Pertsvea, Lada Siabro, Olena Myronenko

An Assessment of the Performance of Low Dose CT Thorax (CT Pneumonia) as a screening tool in the diagnosis of Covid-19
Michael Pace Bardon (Swieqi, Malta), Julian Cassar, Gabriella Balzan, Peter Cassar, Luca Conti, Nicola Mallia, Stephanie Brinca, Emma Schenbri, Martin Balzan, Yanika Farrugia, Peter Fsadni, Gabriel Galea, Richard Pullicino, Adrian Muzzi, Stephen Montefort

Outcomes of level 1 Covid-19 inpatients at six months
Jonathan Bates-Powell (Cramlington, United Kingdom), Dilraj Bhullar, Catherine Dotchin, Emily Grimshaw, Ellen Tullo, Avinash Aujayeb

Differences in host inflammatory response and severity according to gender in COVID-19
Jone Solorzano Santobena (bilbao, Spain), Imanol Gonzalez, Beatriz Gonzalez, Alejandro Rezola, Edurne Echevarria, Sonia Castro, Marta Garcia, Amaia Urrutia, Leyre Serrano, Luis Alberto Ruiz, Rafael Zalacain

Characteristics of hospitalized COVID-19 patients and parameters associated with severe pneumonia
Muzaffer Onur Turan (Izmir, Turkey), Arzu Mirici, Serap Duru Akcali, Pakize Ayse Turan, Ozgur Batum, Ayse Sen, Zihal Ekici Unsal, Nalan Isik Kabakoğlu, Nalan Ogan, Şerife Torun, Günül Ak, Şule Akçay, Berna Kömürcüoğlu, Nazan Şen, Pınar Mutlu,ULK Yılmaz

Pre-congress content
Session 378
13:15 - 14:15

E-poster: COVID - 19 epidemiology
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

Tag(s): COVID

Chairs: Oksana Vilsaniuk (Vinnitsa, Ukraine), Jessica Rademacher (Hannover, Germany)

Outcomes of level 1 Covid-19 inpatients at six months
Jonathan Bates-Powell (Cramlington, United Kingdom), Dilraj Bhullar, Catherine Dotchin, Emily Grimshaw, Ellen Tullo, Avinash Aujayeb

Differences in host inflammatory response and severity according to gender in COVID-19
Jone Solorzano Santobena (bilbao, Spain), Imanol Gonzalez, Beatriz Gonzalez, Alejandro Rezola, Edurne Echevarria, Sonia Castro, Marta Garcia, Amaia Urrutia, Leyre Serrano, Luis Alberto Ruiz, Rafael Zalacain

Characteristics of hospitalized COVID-19 patients and parameters associated with severe pneumonia
Muzaffer Onur Turan (Izmir, Turkey), Arzu Mirici, Serap Duru Akcali, Pakize Ayse Turan, Ozgur Batum, Ayse Sen, Zihal Ekici Unsal, Nalan Isik Kabakoğlu, Nalan Ogan, Şerife Torun, Günül Ak, Şule Akçay, Berna Kömürcüoğlu, Nazan Şen, Pınar Mutlu,ULK Yılmaz
<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3255</td>
<td>Another aspect of COVID pandemic: where has all the Flu gone?</td>
<td>Taya Chapman (Rayleigh, United Kingdom), Etel Etel, Harmesh Moudgil, Koottalai Srinivasan, Emma Crawford, Annabel Makan, Nawaid Ahmad</td>
</tr>
<tr>
<td>PA3256</td>
<td>Early bedside clinical prediction of deterioration in COVID-19 happy hypoxaemic phenotype associated with good prognosis.</td>
<td>Athanasios Mamarelis (Nottingham, United Kingdom), Ak Mohammad Farid Pg Metussin, Arion Pepas, Arun Khanna, Milind Sovani</td>
</tr>
<tr>
<td>PA3257</td>
<td>Risk contribution of comorbidities in hospitalized patients with Covid 19 pneumonia</td>
<td>Nikolay Kyuchukov (Pleven, Bulgaria), Iliya Krachunov, Zlatina Ivanova, Temenuzhka Ignatova-Danova, Pavlina Glogovskas, Plamen Pavlov, Tsanya Popova, Yavor Ivanov</td>
</tr>
<tr>
<td>PA3258</td>
<td>Descriptive study of patients admitted to hospital for suspected COVID19 with initial negative PCR: clinical characteristics, methods of confirmation, and most common alternative diagnoses.</td>
<td>Elena Curto Sánchez (Barcelona, Spain), Esther Palones Femenia, Inés Podzamecz Valls, Laia Cendón Panades, Albert Rafecas Codern, Fernando Gutierrez Pereyra, Vicente Plaza Moral</td>
</tr>
<tr>
<td>PA3259</td>
<td>Asymptomatic hypoxia in Covid-19</td>
<td>Federico Raimondi (Bergamo, Italy), Luca Novelli, Arianna Ghirardi, Mariangela Amoroso, Roberta Trapasso, Mauro Gori, Michele Senni, Chiara Allegrò, Roberta Biza, Marisa Anelli, Caterina Conti, Gianluca Imeri, Gianmarianno Marchesi, Ferdinando Luca Lonni, Fabiano Di Marco</td>
</tr>
<tr>
<td>PA3260</td>
<td>Comparative analysis between survivors and deceased in the first wave of the COVID-19 pandemic</td>
<td>Larisa Dobrescu (Timisoara, Romania), Ludmila Pislaru, Carla Glavan, Alexandra Lehocz, Adelina Neiconi, Stefan Mihaiucuta, Nicoleta Bertici</td>
</tr>
<tr>
<td>PA3261</td>
<td>Impact of bacterial co-infection with COVID-19 on morbidity and mortality</td>
<td>Scott Waring (Harlow, United Kingdom), Gwantsa Gamktisulashvili, Siddarth Kumar, Shivata Kuckreja, Ugochukwu Ekeowa, Samir Naik, Muhammad Anwar, Peter Russell</td>
</tr>
<tr>
<td>PA3262</td>
<td>Clinical features of COVID-19 pneumonia in elderly patients</td>
<td>Imen Sahnoun (Ariana, Tunisia), Soumaya Debiche, Soumaya Ben Saad, Fatma Ezzahra Dabbobi, Ameni Ben Mansour, Asma Zaafouri, Sarra Ben Sass, Hafaoua Daghfous, Sonia Maâlej, Fatma Tritar, Leila Douik El Gharbi, Soumaya Debiche</td>
</tr>
<tr>
<td>PA3263</td>
<td>Risk factors for long-term hospitalization in patients with COVID 19</td>
<td>Amani Kacem (Sousse, Tunisia), Dhekra Chebil, Sana Rouis, Rahma Ben Jazia, Donia Ben Hassine, Emna Arfaoui, Hela Sakly, Anis Maatallah, Slim Samet, Latifa Merzougui</td>
</tr>
<tr>
<td>PA3264</td>
<td>Profile of respiratory infections among mild/asymptomatic COVID 19 patients in a tertiary referral of central India</td>
<td>Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Abhishek Faye</td>
</tr>
<tr>
<td>PA3265</td>
<td>Impact of COVID-19 on patients with chronic lung disease</td>
<td>Etel Etel (Birmingham, United Kingdom), Taya Chapman, Harmesh Moudgil, Koottalai Srinivasan, Annabel Makan, Emma Crawford, Nawaid Ahmad</td>
</tr>
<tr>
<td>PA3266</td>
<td>Comparison of body composition, physical capacity, and immuno-metabolic profile of hospitalized patients with community-acquired pneumonia caused COVID-19, influenza, and bacteria.</td>
<td>Camilla Koch Ryrsø (Frederiksberg, Denmark), Arnold Matovu Dungu, Maria Hein Hegelund, Andreas Vestergaard Jensen, Adin Sejdic, Daniel Faursht-Jepsen, Rikke Krogh-Madsen, Birgitte Lindegaard</td>
</tr>
<tr>
<td>PA3267</td>
<td>Common symptoms in hospitalized COVID-19 patients by age, severity and survival outcome – A literature review</td>
<td>Eileen Han (Collegeville, United States of America), Ember Lu, Anne Heyes, Josephine Mauskopf, Marguerite Bracher, Helen Birch</td>
</tr>
<tr>
<td>PA3268</td>
<td>Clinical Characteristics and Outcomes of Type 2 Diabetes and patients Infected with COVID-19</td>
<td>Soumaya Bouchareb (Ksar Hellal, Tunisia), HASSENE BAILI, Imen Touil, Yosra Brahem, Kessisa Souhir, Jihene Ayeb, Nadia Keskes Boudawara, Jalel Kneni, Leila Boussoufara</td>
</tr>
<tr>
<td>PA3269</td>
<td>The epidemiological and clinical characteristics of COVID-19 cases from the Republic of Moldova</td>
<td>Evelina Lesnic (Chisinau, Republic of Moldova), Tatiana Osipov, Alina Malic, Adriana Niguleanu, Carmina Paladi</td>
</tr>
<tr>
<td>PA3270</td>
<td>Features of the clinical course of coronavirus and bacterial pneumonia</td>
<td>Irina Demko (Krasnoyarsk (Krasnoyarsk Krai), Russian Federation), Angelina Kraposhina, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva, Elena Sobko, Elena Verbitskaya, Ksenia Shadrina</td>
</tr>
<tr>
<td>PA3271</td>
<td>Clinical differences between elderly and nonelderly patients with COVID-19</td>
<td>Gülistan Karadeniz (Izmir, Turkey), Fatma Demirec Ücoslar, Gülru Polat, Aysu Ayranç, Enver Yalnız, Filiz Gündalav , Melih Büyüksür, Çeyda Anar</td>
</tr>
</tbody>
</table>
E-poster: Translational and other aspects of idiopathic interstitial pneumonia

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Interstitial lung diseases, Airway diseases

**Method(s):** General respiratory patient care, Cell and molecular biology, Epidemiology, Public health, Physiology, Pulmonary function testing, Imaging

**Chairs:** Sabina A. Guler (Bern, Switzerland), Bruno Crestani (Paris, France)

**PA3272**
**Enabling an interstitial lung disease genomic classifier on an automated platform**
Huimin Jiang (South San Francisco, United States of America), Carl Schaper, Jianghan Qu, Nicole Davis, Grazyna Fedorowicz, Mark Naranja, James Storhoff, Dan Pankratz, Ambika Sopory, Sangeeta Bhorade, Jing Huang, Sean Walsh, Giulia Kennedy

**PA3273**
**TERT expression in lung cancer associated with IPF: a case-control study**
Georgia Gomatou (Athens, Greece), Christos Masoutis, Ioannis Vamvakaris, Evangelos Bouros, Demosthenes Bouros

**PA3274**
**Radiological scores in IPF patients according to MUC5B polymorphism.**
Elisabetta Cocconcelli (Padova (PD), Italy), Nicol Bernardinello, Chiara Giraudo, Clorinda Greco, Anna Sara Fraia, Alessia Achille, Marina Saetta, Elisabetta Balestro, Paolo Spagnolo

**PA3276**
**Intestinal lung abnormalities with a diagnosis of idiopathic pulmonary fibrosis**
Tomohiro Bando (Seto, Japan), Reoto Takei, Yasuhiko Yamano, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Takeshi Jokoh, Junya Fukuoka, Yasuhiro Kondo

**PA3277**
**The role of CX3CL1 and ADAM17 in pathogenesis of diffuse parenchymal lung diseases**
Eva Tedlova (Bratislava, Slovakia), Jan Urban, Magda Suchankova, Martina Ganovska, Vladimir Leksa, Frantisek Sandor, Brian Konig, Imrich Jonner, Maria Bucova

**PA3278**
**Effect of pirfenidone on the development of pellagra-related nausea in mice**
Koji Kuronuma (Sapporo, Japan), Natsumi Susai, Tatsuru Ishikawa, Tomohiro Kuroita, Takeshi Yoshioka

**PA3279**
**Effect of thymus vulgaris leaf extract on bleomycin induced oxidative stress and lung fibrosis in rats**
Sana BAHRI (Tunis, Tunisia), Mona Mlika, Atef Nahdi, Saloua Jameleddine

**PA3280**
**Real world data analysis indicates that pirfenidone may cause pellagra-like photosensitivity**
Takeshi Yoshioka (Osaka, Japan), Tomohiro Kuroita, Hiroki Yamamoto, Natsumi Susai, Koji Kuronuma, Shuji Kaneko

**PA3281**
**Surface enolase-1 mediated cell migration and lung fibrosis in bleomycin-induced mice**
Wei-Ching Huang (Taipei, Taiwan), Chi-Fen Chuang, I-Che Chung, Yung-Tsang Huang, Mao-Lin Chen, Ta-Tung Yuan

**PA3282**
**NHLRC2 mRNA and protein expression in idiopathic pulmonary fibrosis**
Mervi Kreus (Oulu, Finland), Siri Lehtonen, Johanna Salonen, Reetta Hinttala, Riitta Kaarteenaho

**PA3283**
**Prolyl-3-hydroxylase 4 (P3H4), a novel player in collagen synthesis and secretion in lung fibroblasts**
Ceylan Onursal (München, Germany), Larissa Knüppel, Juliane Merl-Pham, Caressa D. Lietman, Rudolf Hatz, Jürgen Behr, Kristian Unger, Julia Hess, Stefanie M. Hauck, Brendan Lee, Claudia Staab-Weijnitz

**PA3284**
**The impact of idiopathic pulmonary fibrosis on the airway length per generation in the human lung**

**PA3285**
**Anti-fibrotic efficacy of Lck inhibitor via the suppression of TGF–ß production in regulatory T cells**
Kozo Kagawa (Tokushima, Japan), Kozo Kagawa, Kazuya Koyama, Seidai Sato, Takeshi Imakura, Kojin Murakami, Naoki Takahashi, Nobuhiro Naito, Haruka Nishimura, Hiroshi Kawano, Yasuhiro Nishioka

**PA3286**
**Aging decreases reversibility of pulmonary fibrosis by regulating PRDM16-related fatty acid metabolism in lung fibroblasts**
Yue Zhang (Guangzhou, China), Yue Zhang, Ying Meng

**PA3287**
**Effects of coronavirus disease 2019 (COVID-19) pandemic on the follow-up and treatment of patients with idiopathic pulmonary fibrosis: a cross-sectional multicenter study phone call survey**
Necmiye Funda Coşkun (Bursa, Turkey), Ismail Hanta, Ayküç Çilli, Güven Özkaya, Ahmet Ursavaş, Can Sevinc
Interstitial lung abnormalities after SARS-COV2 infection
Maria Cinta Cumpli Gargallo (Amposta, Spain), Diana Badenes Bonet, Oswaldo Antonio Caguana Velez, Jose Gregorio González García, Flavio Zuccarino, Juana Martínez Llorens, Judit Villar, Joaquim Gea Guiral, Diego Rodriguez Chiaradia, Eva Balcells Vilarnau

FOLLOW-UP OF PATIENTS WITH SEVERE COVID-19 PNEUMONIA AND TORPID EVOLUTION
Oswaldo Antonio Caguana Velez (Barcelona, Spain), Oswaldo Antonio Caguana Velez, Diana Badenes Bonet, Luis Del Carpio Bellido, Diego Rodriguez-Chiaradia, Marisol Dominguez, Joaquim Gea, Eva Balcells

Basement membrane remodeling is related to disease progression and severity in idiopathic pulmonary fibrosis
Henrik Jessen (Herlev, Denmark), Nils Hoyer, Thomas Prior, Peder Frederiksen, Morten Karsdal, Diana Leeming, Elisabeth Bendstrup, Jannie Sand, Saheer Shaker

Pre-congress content

Session 380 13:15 - 14:15

E-poster: What's new in respiratory problems in rare and systemic diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care Sleep and breathing disorders Pulmonary vascular diseases Airway diseases Thoracic oncology Interstitial lung diseases

Method(s): Imaging General respiratory patient care Respiratory intensive care Pulmonary function testing Physiology Cell and molecular biology Pulmonary rehabilitation

Chairs: Carmelo Gabriele (Rimini (RN), Italy), Nicolas Kahn (Heidelberg, Germany)

Long-term evaluation of respiratory outcomes in patients with late onset Pompe disease under enzyme replacement therapy: the role of postural drop and its impact on quality of life
Grazia Crescimann (Palermo (PA), Italy), Luca Palazzolo , Manuela Bertini, Salvatore Arrisicato, Oreste Marrone

Kaposiform lymphangiomatosis in adult patients– results of sirolimus treatment
Elżbieta Radzikowska (Warszawa, Poland), Katarzyna Blasińska, Małgorzata Szolkowska, Elżbieta Wiatr

Respiratory disturbances in fibromyalgia: A systematic review and meta-analysis of case control studies
Alejandro Heredia Ciuró (Granada, Spain), Araceli Ortiz Rubio, Irene Torres-Sánchez, Javier Martín-Núñez, Andrés Calvache-Mateo, Alejandro Heredia-Ciuró, Marie Carmen Valenza

The efficacy of inhaled tiotropium add-on to budesonide/formoterol in patients with bronchiolitis obliterans after hematopoietic stem cell transplantsations
Hyonsoo Joo (Seoul, Republic of Korea), Jeong Uk Lim, Chin Kook Rhee

Prognostic value of respiratory variables in candidates for liver transplantation.
Hélène Pringuez (Paris, France), Antoine Beurimer, Athénais Boucly, Nathan Ebstein, Jérémie Pichon, Sophie Bulifon, Xavier Jais, Mitja Jevnikar, Etienne Marie Jutant, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale

Clinical Characteristics of Methotrexate Associated Lymphoproliferative Disorders
Manabu Suzuki (Tokyo, Japan), Sachi Matsumayashi, Keita Sakamoto, Motoyasu Iikura, Shinya Izumi, Masayuki Hojo, Haruhito Sugiyama

The frequency of the respiratory comorbidities in patients (pts) with rheumatoid arthritis (RA)
Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Larisa Botvinikova, Olena Myronenko, Oksana Plekhanova

Pulmonary involvement in antisyntethasate syndrome: more than myopathy
Fatma Çiftci (Ankara, Turkey), Sema Nur Süslü, Oya Kayacan

The frequency of respiratory comorbidities in patients (pts) with congenital kyposcholiosis
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Darya Sklyarova, Elizaveta Volchkova

Pretransplant lung function tests in patients with malignant hemopathy undergoing stem cell transplantation.
Ichrif Anane (Sousse, Tunisia), Sana Sellami, Sahar Chakroun, Ines Kammoun, Leila Triki, Sana Benjemia, Hela Zouari, Kaoutuer Masmoudi

Genetic analysis of 17 children with Primary Ciliary Dyskinesia (PCD)
Sergio Iniesta González (Valencia, Spain), Ana Barrés Fernández, Diannet Quintero García, Ángela Moreno Palomino, Silvia Castillo Corullón
The impact of diagnostic delay on survival in alpha-1-antitrypsin deficiency - results from the Austrian Alpha-1 Lung Registry
Tobias Meischl (Vienna, Austria), Karin Schmid-Scherzer, Judith Loeffler-Ragg, Fikreta Grabcanovic-Musija, Simona Mueller, Gert Wurzinger, Norbert Kaufmann, Markus Rauter, Arschang Valipour, Georg-Christian Funk

International French-speaking multicentre practice survey on hepatic hydrothorax (HH) : Results of the "Hep Hep" study among 529 hepatogastroenterologist (HG) or pneumologist (PN) respondents.
Jacques Cadranel (Paris Cedex 20, France), Jean-François Cadranel, Isabelle Ollivier, Thierry Thevenot, Eric Nguyen-Khac, Christophe Bureau, Manon Allaire, Jean-Baptiste Nousbaum, Véronique Loustaud-Ratti, Xavier Causee, Philippe Sogni, Bertrand Hanslik, Marc Bourlière, Jean-Marie Péron, Nathalie Ganne-Carrié, Thong Dao, Bernard Maitre, Laure Elkrief, Chantal Raherison, Tristan Le Magaoarou

A review of pulmonary sequestration in a district general hospital
Avinash Aujayeb (newcastle, Mauritius), Alex Mcclement, Parag Narkhede

Visceral Fat is More Related to Impairment of Lung Function and Mechanics and Pulmonary Immune Response in Overweight and Grade I Obese Women
Anamei Silva-Reis (São José dos Campos, Brazil), Anamei Silva-Reis, Maysa A Rodrigues Brandao-Rangel, Renilson Moraes-Ferreira, Thiago G Gonçalves-Alves, Victor H Souza-Palmeira, Helida C Aquino-Santos, Claudio R Frison, Rodolfo P Vieira

Prognostic impact of acute kidney injury in patients with acute pulmonary embolism.Data from the RIETE registry
Laurent Bertoletti (Saint Etienne Cedex, France), Martin Murgier, Behnood Bikdeli, David Jimenez, Javier Trujillo-Santos, Adel Merah, Cristina De Ancos, Ângelo Fidalgo, Jesús Aíbar, Manuel Monreal

Can we treat Exercise Induced Laryngeal Obstruction with inhaled ipratropiumbromide?
Praveen Muralitharan (Bergen, Norway), Petter Carlsten, Maria Vollseter, Mette Engan, Ida Jansrud Hammer, Thomas Halvorsen, Olva Drange Roksund, Hege Synnøve Havstad Clemm

Late Breaking Abstract - Cumulative retrospective pharmacovigilance review of inhaled levofloxacin: drug-related aneurysms, artery dissection and cardiac valve disorders
Mario Scurla (Parma, Italy), Mario Scurla, Ottavio D'Annibali, Debora Santoro, Claudio Proacci

Late Breaking Abstract - Role of Discharge VTE Assessment in Correct VTE Prophylaxis Prescription
Hsu Myat Noe (Aylesbury, United Kingdom), M Chinedu, R Raju

Late Breaking Abstract - Short-term effects of a novel bronchial drainage device in Cystic Fibrosis patients
Dorit Fabricius (Ulm, Germany), Hanna Schmidt, Monika Toth, Christine Käppler-Schorn, Ute Siebeneich, Sebastian Bode

E-poster: Respiratory failure in COVID19 and beyond
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care Pulmonary vascular diseases Interstitial lung diseases
Method(s): Respiratory intensive care General respiratory patient care Imaging Public health Palliative care Pulmonary rehabilitation Physiology Cell and molecular biology Epidemiology
Tag(s): COVID

Chairs: Michael Dreher (Aachen, Germany), Alexandre Demoule (Paris, France)

Effectiveness, efficacy and safety of INTELLiVENT–ASV, a closed-loop ventilation mode for ICU patients - a systematic review
Michela Botta (Rotterdam, Netherlands), Eliane F E Wenstedt, Anissa M Tsonas, Laura A Butieman–kruizinga, David M P Van Meenen, Hendrik H M Korsten, Janneke Horn, Frederique Paulus, Alexander G J H Bindels, Marcus J Schultz, Ashley J R De Bie

Prediction of successful weaning from mechanical ventilation by continuous ultrasound monitoring of diaphragm excursion
Alexandre Demoule (Paris, France), Sara Virolle, Alain Mercat, Daniel Bergum, Come Bureau, Satar Mortaza

A respiratory department’s use of high-flow nasal oxygen and associated patient outcomes (prior to the COVID-19 pandemic)
Bharat Sharma (Ewloe, United Kingdom), Jennifer Nixon, Emma Moon, Emily Nuttall, Sarah Macrae
Specialized weaning and readaptation unit in the trajectory of SARS-CoV-2 severe acute respiratory distress: a 3-months monocenter outcome study
Morgane Faure (Paris, France), Maxens Decavèle, Elise Morawiec, Martin Dres, Nicolas Gatulle, Julien Mayaux, François Stefánescu, Julien Caliez, Thomas Similowski, Julie Delemazure, Alexandre Demoule

The dynamics of dyspnea in patients (pts) with pneumonia on the background of SARS-CoV2 infection
Lyuymlya Konopkina (Dniepropetrovsk, Ukraine), Tetyana Pertseva, Olena Myronenko, Olha Shchudro

Palliative Care in hospitalized adults with COVID-19
Luiza Helena Degani-Costa (São Paulo (SP), Brazil), Lyna K R Almeida, Débora C L Silva, Bruna A Campos, Gabriela Varela, Cristina M B Fonseca, Victor L P Amorim, Felipe M T Piazza, Thiago J Avelino-Silva

Comparison of transpulmonary pressures by esophageal pressure measurement in supine and prone positions in patients with severe acute respiratory distress syndrome: An observational study
Pranshuta Sabharwal (Delhi, India), Vinod Kumar Singh, Niraj Tyagi, Rahul Kumar, Debashish Dhar, Ashutosh Taneja, Sangeeta Chakraborty, Prasoon Gupta, Amitabh Dutta, Brijendra Kumar Rao

An appraisal of respiratory system compliance in mechanically ventilated COVID-19 patients
Gianluigi Li Bassi (Brisbane, Australia), Jacky Suen, Nicole White, Jonathon P Fanning, Benoît Lique, Samuel Hinton, Aapeli Vuorinen, Gareth Booth, Jonathan E Millar, Simon Forsyth, Mauro Panigada, John Lafley, Daniel Brodie, Eddy Fan, Antoni Torres, Davide Chiariello, Amanda Corley, Alyaa Elhazmi, Carol Hodgson, Shin G Ichiba, Carlos Luna, Srinivas Murthy, Alistair Nichol, Mark Ogino, Antonio Pesenti, Huynh Trung Trieu, John F Fraser

Sara Picicucci (Forlì, Italy), Antonino Zizzuto, Maria Luisa Garo, Giorgia Dalpiaz, Claudia Ravaglia, Venerino Poletti

Landiolol vs Esmolol on hemodynamic response during weaning of post-operative ICU patients with heart failure
Maria Anifanti (Athens, Greece), Ioanna Iona, Kyriaki Tsikritsaki, Serafim Chrysidis, Alexandros Kalogeromitros, Georgios Koukoulitios

Biomarkers for activation of the inflammatory and immune systems in the risk of mortality in critically-ill COVID-19 patients
Alice G. Vassiliou (Athens, Greece), Alexandros Zacharis, Chrysi Keskinidou, Edison Jahaj, Parisis Gallos, Nikolaos Athanasiou, Stamatis Tspiris, Ioanna Dimopoulou, Anastasias Kotanidou, Stylianos E. Orfanos

Thoracic ultrasound impacts clinical decision-making in chest physiotherapy for critical care patients. A multicenter study
Aymeric Le Neindre (Férolles-Attilly, France), Louise Hansell, Johan Wormser, Andriea Gomes Lopes, Carlos Diaz Lopez, Francois Philippart, Belaid Bouhemad, George Ntoumenopoulos

Diaphragm neurostimulation preserves end-expiratory lung volume more in ventral lung regions.
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Marlena Ornowska, Michelle Nicholas, Jessica Wittmann, Steven Reynolds

Clinical comparison between epidemic waves in COVID-19 hospitalized patients
Ramon Cabo Gambin (Lleida, Spain), Maria Zuil Moreno, Carlos Manzano Senra, Anna Moncusi, Clara Gort, David Benitez, Laia Utrillo, Gerard Torres, Ferran Barbe, Jessica Gonzalez

Potential for personalised application of inhaled nitric oxide in Covid-19 pneumonia
Benjamin Garfield (London, United Kingdom), Charles Mcfadyen, Charlotte Briar, Colm Mccabe, Stefan Ledot, Melissa Baldwin, Katerina Vlachou, Susanna Price, S John Wort, Brijesh Patel, Laura Price

Effect of neurophysiological facilitation techniques on functional levels and respiratory in intensive care patients
Mehmet Burak Uyaroglu (İSTANBUL, Turkey), Yasemin Cırak, Nurgül Duruştan Elbasi, Hakan Parlak

Late Breaking Abstract - A retrospective analysis of ROX score for predicting treatment failure and progression to invasive ventilation in COVID patients requiring enhanced respiratory support
David Ritchie (Bristol, United Kingdom), David Ritchie, Sara Fairbairn

Late Breaking Abstract - The pro-inflammatory activity and role of NLRP3 inflammasome in severe influenza A virus pneumonia.
Yunfeng Shi (GuangZhou, China), Xiaohan Shi, Yunfeng Shi, Jun Zhu, Junxian Chen, Benquan Wu

Late Breaking Abstract - Hospitalized patients aged ≥70 years were disproportionately affected by COVID-19
Daniel Gibbons (Brentford, United Kingdom), J. Morel Symons, Marguerite Bracher

Pre-congress content

Session 382 13:15 - 14:15
E-poster: The ongoing threat of drug-resistant tuberculosis
**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Chairs:** Giovanni Battista Migliori (Varese (VA), Italy), Sergey Evgenievich Borisov (Moscow, Russian Federation)

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3330</td>
<td>Multidrug-resistant tuberculosis in children of Belarus</td>
<td>Larissa Gorbach (Minsk, Belarus)</td>
</tr>
<tr>
<td>PA3331</td>
<td>TB Portals Program in Ukraine</td>
<td>Dmytro Butov (Kharkiv, Ukraine), Andrei Gabrielian, Valeriy Myasoedov, Tetiana Butova, Alyssa Long, Emily Matlock, Darrel Hurtt, Alina Grinev, Alex Rosenthal</td>
</tr>
<tr>
<td>PA3332</td>
<td>Morphological changes of a small intestine wall in patients with multidrug resistant tuberculosis</td>
<td>Olena Pidverbetska (Chernivtsi, Ukraine), Lilia Todoriko</td>
</tr>
<tr>
<td>PA3333</td>
<td>Treatment of multidrug-resistant tuberculosis in Uzbekistan from 2012 to 2018: does practice follow policy?</td>
<td>Ruzilya Usmanova (Tashkent, Uzbekistan), Nargiza Parpieva, Irina Liverko, Hayk Davtyan, Olga Danisniuk, Ajay Kumar, Jamshid Gadoev, Sevak Alaverdyan, Kostantyn Dumchev, Baro Abduzamatov, Ilhomjon Butabekov</td>
</tr>
<tr>
<td>PA3334</td>
<td>Clinical and mutational profile of extensively drug-resistant tuberculosis cases in northern India.</td>
<td>Ajay Kumar Verma (Lucknow (Uttar Pradesh), India), Yash Jagdhar, Surya Kant, Richa Mishra, Kanchan Srivastava, Jyoti Bajpai</td>
</tr>
<tr>
<td>PA3335</td>
<td>Efficiency of intravenous treatment with levofloxacin in patients with MDR pulmonary tuberculosis in the intensive phase of chemotherapy</td>
<td>Dmytro Butov (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gumieniuk, Oleksii Denysov, Tetiana Butova</td>
</tr>
<tr>
<td>PA3336</td>
<td>Biological properties of Mycobacterium tuberculosis (Mt) resistant to biocides</td>
<td>Natalia Eretemeva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatiana Umpeleva, Diana Vakhrusheva, Sergey Skornyakov, Leonid Lavrenchuk</td>
</tr>
<tr>
<td>PA3337</td>
<td>The effects of bedaquiline and fluoroquinolone-based treatment regimens in patients with MDR/XDR-TB on QT prolongation</td>
<td>Elena M Zhukova (Novosibirsk, Russian Federation), Yana Batyrshina</td>
</tr>
<tr>
<td>PA3338</td>
<td>Influence of viral hepatitis and anti-TB drugs on hepatocyte dysfunction in patients with MDR/XDR tuberculosis</td>
<td>Eduard Vaniev (Moscow, Russian Federation), Grigory Kaminskiy, Elena Veselova, Natalya Kuzmina, Anastasia Samoiova, Irina Vasilyeva</td>
</tr>
<tr>
<td>PA3339</td>
<td>Medico-social features of resistance development to new anti-TB drugs in patients with MDR/XDR TB</td>
<td>Elena Kildyusheva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Igor Medviniy, Sergey Skornyakov, Tayiana Lugovkina, Tatiana Umpeleva, Natalia Eretemeva</td>
</tr>
<tr>
<td>PA3340</td>
<td>Risk factors for radiological and functional sequelae in multi-drug resistant tuberculosis</td>
<td>Mariem Ferichichi (Tunis, Tunisia), Soumaya Ben Saad, Ameni Ben Mansour, Othman Neffati, S Belhadj, Leila Slim, Hafaoua Daqfous, Fatima Tritar</td>
</tr>
<tr>
<td>PA3341</td>
<td>Efficacy of linezolide-free chemotherapy schemes in patients with highly drug-resistant tuberculosis</td>
<td>Olga Otpuschennikova (Moskow, Russian Federation), Tatyana Morozova, Natalia Doktorova</td>
</tr>
<tr>
<td>PA3342</td>
<td>Adherence of drug-resistant tuberculosis patients to treatment in Tashkent, 2019-2020</td>
<td>Ruzilya Usmanova (Tashkent, Uzbekistan), Nargiza Parpieva, Irina Liverko, Hayk Davtyan, Sevak Alaverdyan, Jamshid Gadoev</td>
</tr>
<tr>
<td>PA3343</td>
<td>Tolerance to chemotherapy regimens with bedaquiline in adolescents with MDR/XDR pulmonary TB</td>
<td>Olga Piskunova (Moscow, Russian Federation), Ludmilna Panova, Elena Ovsyankina, Ekaterina Krushinskaya</td>
</tr>
<tr>
<td>PA3344</td>
<td>LTBI - MDR/XDR-TB cases - should all be treated?</td>
<td>Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Maria João Cavaco, Carina Rolo Silvestre, André Nunes, Joao Araújo, Paula Raimundo, Daniel Duarte, Carla Cardoso, Natalia André, Rita Macedo, António Domingos</td>
</tr>
<tr>
<td>PA3346</td>
<td>Effectiveness of complex treatment of bilateral destructive pulmonary XDR-tuberculosis</td>
<td>Alexey Tikhonov (Moscow, Russian Federation), Tatevik Bagdasaryan, Vladimir Romanov, Atajen Ergeshov</td>
</tr>
</tbody>
</table>
Pre-congress content  Session 383  13:15 - 14:15

E-poster: Chronic airway, interstitial, pleural and neoplastic diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Interstitial lung diseases  Thoracic oncology  Respiratory critical care

Method(s): Imaging  Epidemiology  Cell and molecular biology  General respiratory patient care  Pulmonary function testing  Public health  Respiratory intensive care

Chairs: Denis Vinnikov (Almaty, Kazakhstan), Anna-Carin Olin (Göteborg, Sweden)

PA3350  Cluster analysis of World Trade Center (WTC) related lower airway diseases
Rafael E. de la Hoz (New York, United States of America), Yunho Jeon, John Doucette, Jonathan Weber, Anthony Reeves, Raúl San José Estépar, Juan Celedón

PA3351  A systematic review of the occupational burden of chronic obstructive pulmonary disease in the Commonwealth of Independent States
Denis Vinnikov (Almaty, Kazakhstan), Tatsyana Rybina, Leonid Strizhakov, Sergey Babanov, Irina Mukatova

PA3352  Respiratory health assessment in agricultural workers by job exposure matrices
Sasho Stoleski (Skopje, North Macedonia), Jordan Minov, Dragan Mijakoski, Aneta Atanasovska, Dragana Bisljimovska, Jovanka Karadžinska-Brisljimovska

PA3353  Association of COPD and Asthma COPD Overlap (ACO) with World Trade Center (WTC) occupational exposure intensity
Rafael E. de la Hoz (New York, United States of America), Moshe Shapiro, Anna Nolan, Akshay Sood, James Cone, Roberto G. Lucchini, Juan C. Celedón

PA3354  Trajectory of inhaled cadmium ultrafine particles in smokers.
Einat Fireman Klein (HAIFA, Israel), Ilan Klein, Omer Efrat, Yoram Dekel, Aharon Kessel, Yocahi Adir

PA3355  Single Breath Nitrogen Test as predictor of lung function decline and COPD over an 8-year follow-up
Francesco Pistelli (Pisa (PI), Italy), Duane L. Sherrill, Sandra Baldacci, Sara Maio, Laura Carrozzi, Giovanni Viegi

PA3356  Hyaluronic acid as predictor of occupational COPD exacerbation
Vasílii Fedotov (Nizhny Novgorod, Russian Federation), Blinova Tatiana, Dobrotina Irina, Khlystov Alexei

PA3357  Evolution of the respiratory function of professional divers over a 6 year period
Aïssa Sana (Sousse, Tunisia), Imene Kacem, Lynn Guetari, Jihen Rejeb, Asma Chouchane, Nawel Zammit, Maher Maoua, Aicha Brahem, Houda Kalboussi, Souhail Chatti, Olfa El Maalel, Nejib Mrizak

PA3358  Validation of the GLI 2012 African American module in adult Zimbabwean women: A cross sectional study
Shamiso Muteti-Fana (Harare, Zimbabwe), Tafadzwa Madanhire, Jaffa Nkosa, Rajen Naidoo

PA3359  Beta-catenin and periostin in interstitial pneumonia (IP) of extrinsic (EIP) and unknown (IIP) origin
Galina P. Orlova (St. Petersburg, Russian Federation), Elena A. Surkova

PA3360  Mesothelioma in Curacao versus the Netherlands: incidence and advice for liability for compensation
Folkert Brijer (Willemstad, Curaçao), Maria Wassink, Nina Kooij, Paul Van Den Berg

PA3361  Cancer and mortality in coal mine workers: a systematic review and meta-analysis
Sheikh Alif (Point Cook, Australia), Malcolm Sim, Deborah Glass

PA3362  The legacy of the asbestos-cement plant of Lubudi, DR Congo.
Joseph PYANA KITENGE (Lubumbashi, Democratic Republic of the Congo), Fabian Mukanji Kyungu, Tony Kayembe-Kitenge, Abdon Mukalay Wa Mukalay, Benoît Nemery
Analysis of GST and TNF-a genes polymorphism association with risk development of asbestosis in workers exposed to chrysotile asbest.
Angela Basanets (Kyiv, Ukraine), Natalia Zhurakhivska, Viktor Hvozdetskyi, Tetiana Ostapenko

Late Breaking Abstract - Chronic air pollution exposure caused development of emphysema in rodent model: a nature route for inhalation in the urban environment
Hsiao-Chi Chuang (Taipei, Taiwan), Hsiao-Chi Chuang, Kang-Yun Lee, Ta-Chih Hsiao, Jer-Hwa Chang, Han-Pin Kuo

Late Breaking Abstract - Impacts on length of stay and costs associated with treating severe COVID-19 stratified by age
Daniel Gibbons (Brentford, United Kingdom), J. Morel Symons, Marguerite Bracher

Pre-congress content
Session 384 13:15 - 14:15
E-poster: Cystic fibrosis in children: various aspects
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): Epidemiology Cell and molecular biology Pulmonary function testing General respiratory patient care Pulmonary rehabilitation Physiology Imaging

Tag(s): COVID

Chairs: Stojka Fustik (Skopje, North Macedonia), Claire Nissenbaum (manchester, United Kingdom)

Trends in cystic fibrosis (CF) survival in South Africa over 40 years
Marco Zampoli (Cape Town, South Africa), Reshma Kassanjee, Janine Versraete, Anthony Westwood, Heather J Zar, Brenda M Morrow

Characterization of the resistance mechanisms to carbapenems and virulence genes in Pseudomonas aeruginosa strains from children with cystic fibrosis.
Zulfirya Sadeeva (Balaschiha, Russian Federation), Natalya Alyabyeva, Irina Novikova, Anna Lazareva, Yliya Gorinova, Olga Simonova

Feasibility of a virtual multiple breath washout training program
Jacky Wai Yeung Au (Toronto (ON), Canada), Clare Saunders, Paul Robinson, Christopher Short, Anneliese Blaxland, Ryan Alexander Seeto, Julia Guido, Sara Santos, Maryjess Pornillos, Renee Jensen, Jane Davies, Felix Ratjen

Correlation of the Brody high resolution computed tomography scoring system with aerobic fitness and lung function in patients with cystic fibrosis
Natalia Campos (Porto Alegre, Brazil), Fernanda Vendrusculo, Ingrid Almeida, Nicolas Becker, Leonardo Pinto, Márcio Donadio

Immediate effect of huffing on cystic fibrosis respiratory mechanics
Tayna Castilho (Florianópolis, Brazil), Patricia Keil, Renata Wamosy, Juliana Cardoso, Camila Schivinski

Recommended shielding against SARS-CoV-2 impacts physical activity levels and adherence to airway clearance therapy in patients with cystic fibrosis
Elpis Hatzigorou (Thessaloniki, Greece), Ilektra Toulia, Pavlina Peftoulidou, Eleanna Kouroukli, Eleni Tasika, Elissavet-Anna Chryssochou, John Tsanakas

Targeting Antibiotics to Pseudomonas aeruginosa in Small airways (TAPAS) in patients with Cystic Fibrosis
Beatrice Guidetti (Rotterdam, Netherlands), Aukje C. Bos, Els Van Der Wiel, Illaria Meneghelli, Menno Van Der Eerden, Harm A. W. M. Tiddens, Sonia Volpi, Hettie M. Janssens

The effect of COVID-19 pandemic on anxiety levels of children with cystic fibrosis and healthy children
Muruvvet Cenk (Istanbul, Turkey), Cansu Yilmaz Yegit, Almalia Pinar Ergeneke, Ayse Toksoy Aksoy, Gulcin Bilicen, Yasemin Gokdemir, Ela Erdem Eralp, Ayse Rodopman Arman, Fazilet Korukoc, Bulent Karadag

Evidence for ciliary dyskinesia in cystic fibrosis
Céline Kempe-Neers (Angleur, Belgium), Romane Bonhiver, Noemie Bricmont, Maud Pirotte, Catherine Moermans, Marc-Antoine Wuidart, Jessica Pirson, Renaud Louis, Marie-Christine Seghaye, Hedwige Boboli

Use of portable spirometers in a paediatric cystic fibrosis clinic
Karne Newton (SHEFFIELD, United Kingdom)

Lung function in children with cystic fibrosis liver disease
Mihaela Dediu (Timisoara, Romania), Diana Popin, Liviu Pop, Corina Pienar, Laura Savu, Ioana Mihaela Ciucu
Impact of Aspergillus fumigatus infection on lung function in children with cystic fibrosis
Ludmila Balanetchi (Cluj-Napoca (Cluj), Romania), Rodica Selevestru, Mariana Cotorobai, Diana Rotaru-Cojocari, Cristina Tomacinschi, Natalia Barbova, Eva Dudumac, Svetlana Scuica

Molecular genetic characteristics of Pseudomonas aeruginosa strains isolated from children with cystic fibrosis in Moscow.
Zulfirya Sadeeva (Balaschiha, Russian Federation), Irina Novikova, Natalya Alyabyeva, Anna Lazareva, Yliya Gorinova, Olga Simonova

Late Breaking Abstract - Effects of a new airway clearance technology in children with cystic fibrosis - A homecare randomized controlled trial
Katarzyna Walicka-Serzysko (Warszawa, Poland), Magdalena Postek, Justyna Milczewska, Natalia Jeneralska, Aleksandra Cichecka, Ewa Stiedlecka, Laurent Morin, Dorotha Sands

Late Breaking Abstract - Lessons from introducing DEKAs as a means of vitamin supplementation in paediatric Cystic Fibrosis patients.
Elizabeth Bearblock (Cambridge, United Kingdom), Donna Mchane, Helen Milroy, Stephanie Aldridge, Doxa Kotzia

Late Breaking Abstract - Can individualised skin prick tests detect sensitisations against colonising fungal species in cystic fibrosis patients?
Sara Zanella (Padova, Italy), Volker Strenger, Walter Buzina, Sophie Kienreich, Markus Egger, Andreas Pfleger, Ernst Eber

RCT Abstract - The effect of inhaled hypertonic saline on lung structure in preschool children with cystic fibrosis
Harm Tiddens (Rotterdam, Netherlands), Yuxin Chen, Eleni-Rosalina Andrinopoulou, Stephani D. Davis, Margaret Rosenfeld, Felix Ratjen, Richard A. Kronmal, Karen D. Stukovsky, Stephen Stick

Pre-congress content Session 385 13:15 - 14:15
E-poster: Asthma inhalers: new devices and adherence
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases Respiratory critical care
Method(s): Imaging General respiratory patient care Respiratory intensive care Epidemiology Pulmonary function testing Public health

Chairs: Dimitrios Toumpanakis (Athens, Greece), Binita Kane (Warrington, United Kingdom)

CAPTAIN: Improvements in airflow obstruction in patients with uncontrolled asthma

CAPTAIN: Relationship between FEV1 reversibility at screening as a continuous variable and treatment response

Mometasone/indacaterol (MF/IND) and mometasone/indacaterol/glycopyrronium (MF/IND/GLY) versus fluticasone/salmeterol (FLU/SAL) and FLU/SAL+tiotropium (TIO) in patients with inadequately controlled asthma: data from the PLATINUM program
Richard Van Zyl-Smit (Cape Town, South Africa), Kenneth Chapman, Huib Kerstjens, Christian Gessner, Hironori Sagara, Ana-Maria Tanase, Motoi Hosoe, Xu Shu, Abhijit Pethe, David Lawrence, Hanns-Christian Tillmann, Karen Mezzi, Peter D’Andrea

CAPTAIN: Effects of triple therapy on FEV1 response in patients with inadequately controlled asthma on ICS/LABA

Efficacy of mometasone/indacaterol/glycopyrronium (MF/IND/GLY) versus fluticasone/salmeterol (FLU/SAL) in ex-smoker and never smoker patients with inadequately controlled asthma: Post hoc analysis of IRIDIUM study
Huib A.M. Kerstjens (Groningen, Netherlands), Richard Van Zyl-Smit, Kenneth Chapman, Jorge Maspero, Motoi Hosoe, Ana-Maria Tanase, David Lawrence, Abhijit Pethe, Xu Shu, Karen Mezzi, Peter D’Andrea

Mometasone/indacaterol demonstrates similar efficacy in men and women: pooled analyses of PALLADIUM and IRIDIUM studies
Mometasone/indacaterol/glycopyrronium demonstrates similar efficacy in men and women: post hoc analysis of IRIDIUM study
Chantal Raherison-Semjen (Pessac, France), Dave Singh, Huib A.M Kerstjens, Christian Gessner, Ana-Maria Tanase, David Lawrence, Abhijit Pethe, Karen Mezzi, Peter D’Andrea

Efficacy of mometasone/indacaterol/glycopyrronium (MF/IND/GLY) on lung function and exacerbations in patients with inadequately controlled asthma with medium-dose ICS/LABA therapy (on GINA step 4) prior to study entry: Results from IRIDIUM study
Huib A.M. Kerstjens (Groningen, Netherlands), Jorge F Maspero, Kenneth R Chapman, Richard Van Zyl-Smit, Ana-Maria Tanase, David Lawrence, Abhijit Pethe, Karen Mezzi, Peter D’Andrea

Efficacy of mometasone/indacaterol/glycopyrronium (MF/IND/GLY) on lung function and exacerbations in patients with inadequately controlled asthma with high-dose ICS/LABA therapy (on GINA step 5) prior to study entry: Results from IRIDIUM study
Jorge Maspero (Ciudad Autónoma Buenos Aires, Argentina), Huib A M Kerstjens, Kenneth R Chapman, Richard N Van Zyl-Smit, Ana-Maria Tanase, David Lawrence, Abhijit Pethe, Karen Mezzi, Peter D’Andrea

Mometasone/indacaterol/glycopyrronium (MF/IND/GLY) improves lung function and reduces exacerbations in patients with asthma, independent of baseline airflow limitation: Results from IRIDIUM study
Konstantinos Kostikas (Ioannina, Greece), Huib A M Kerstjens, Jorge F Maspero, Kenneth R Chapman, Richard N Van Zyl-Smit, Motoi Hosoe, Ana-Maria Tanase, Abhijit Pethe, Ioannis Kottakis, Peter D’Andrea

Self-reported vs. objectively assessed adherence to inhaled corticosteroids in asthma
Ulla Møller Weinreich (Ålborg, Denmark), Frodi Jensen, Kjell Ej Haakansson, Britt Overgaard Nielsen, Charlotte Suppli Ulrik

Community pharmacist counseling improves adherence and asthma control: a nationwide observational study
Barbara Putman (Amstelveen, Netherlands), Anna Vanoverschelde, Els Mehuy, LouiseCoucke, LiesLahousse

Use of short-acting β2-agonists in patients with adult-onset asthma during 12-years
Ida Vähätalo (Tampere, Finland), Hannu Kankaanranta, Leena E Tuomisto, Onni Niemelä, Lauri Lehtimäki, Pinja Ilmarinen

Lung deposition and distribution of inhaled extra fine beclomethasone dipropionate /formoterol fumarate /glycopyrronium bromide (BDP/FF/GB) in subjects with and without airflow obstruction.
Simonetta Baldi (Marina di Castagneto Carducci 6-Donoartico, Italy), Omar Usmani, Simon Warren, Ilaria Panni, Luca Girardello, François Rony, Glyn Taylor, Wilfried De Backer, George Georges

SABA use increase weeks before asthma exacerbations recorded via a digital inhaler
Mark L. Levy (London, United Kingdom), Guilherme Saffioti, Michael Reich, Randall Brown, Michael Depietro

Real life data on the use of inhaler device, the satisfaction and the adherence of treatment evaluated by the pharmacist
Bilun Gemicioglu (Istanbul, Turkey), Nejdiye Mazican, Gunay Can, Ilkay F. Alp Yildirim, Sonmez B. Uydes Dogan

The sustainability agenda and inhaled therapy: what do patients want?
Charlotte Renwick (London, United Kingdom), Graine D’Ancona, Andrew Cumella, Samantha Walker

Change from MDI to DPI in asthma: effects on climate emissions and disease control
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom), Jamie Rees, David Leather, Lucy Frith, Magnus Lofdahl, Alison Moore, Martin Hedberg, Christer Janson

Efficiency of a Nebulizer Filter Kit to Prevent Environmental Contamination During Nebulizer Therapy
Mark Nagel (London (ON), Canada), Nathaniel Hoffman, Jason Suggett

Drug Delivery Performance and Fugitive Emission Comparison of Two Commercially Available Nebulizer Systems
Mark Nagel (London (ON), Canada), Nathaniel Hoffman, Jason Suggett

Pre-congress content  Session 386  13:15 - 14:15
E-poster: Oncology, the mediastinum and infectious lung disease
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Thoracic oncology  Pulmonary vascular diseases  Airway diseases
Method(s): Endoscopy and interventional pulmonology  Imaging  Surgery  General respiratory patient care  Epidemiology  Public health

Chairs: Michel Gonzalez (Lausanne, Switzerland), Gulia Veronesi (Milan, Italy)
PA3403  Diagnosis and management of thoracic cystic lymphangioma
Sarra Zaïri (Tunis, Tunisia), mariem hadj dahmane, Habib Besrour, Mahdi Abdennadher, Amira Dridi, Yoldoz Houcine, Mouna Attia, Faouzi Mezni, Taher Mestiri, Hazem Zribi, Adel Marghli

PA3404  Enhanced recovery after surgery decreases pain in thoracic surgery
Abdessalem Hentati (Sfax, Tunisia), Ahmed Ben Ayed, Jihen Jdidi, Zied Chaari, Walid Abid, Abderrahmen Ammar, Ghassen Ben Hlima, Imed Frikha

PA3405  Iterative surgical resections in non-small cell lung carcinoma
Ahmet Üçvet (Izmir, Turkey), Serkan Yazgan, Özgür Samancilar, Soner Gürsoy, Ahmet Emin Erbaycu, Berna Kömürçuğlu

PA3406  Middle lobe syndrome: Twenty years’ surgical experience
Imen Bouassida (Ariana, Tunisia), Wifek Saidani, Bechir Ben Radhia, Hazem Zribi, Mahdi Abdennadher, Nidhal Balloumi, Yoldez Houcine, Sarra Zaïri, Adel Marghli

PA3407  Role of the pulmonologist in a thoracic surgery department
Carla Suarez Castillejo (Palma de Mallorca, Spain), Nuria Toledo Pons, Juan Antonio Torrecilla Medina, Valerio Perna Perna, Orlando Gigirey Castro, Elisabet Arango Tomas, Angel Francisco Carvajal Carrasco, Ernest Sala Llínas

PA3408  MANAGEMENT OF PULMONARY METASTASIS OF COLO-RECTAL CANCERS
mahdi Abdennadher (Ariana, Tunisia), amina abdelkibir, Imen Bouassida, Bechir Ben Rathia, Nidhal Balloumi, Hazem Zribi, Sarra Zaïri, Adel Marghli

PA3409  HEMATEMESIS AS UNIQUE PRESENTING SYMPTOM OF TYPICAL PULMONARY CARCINOID IN A 13-YEARS-OLD GIRL
Manuela Seminara (Bergamo, Italy), Paola Ciriaco, Ahmad Kantar, Ilaria Dalla Verde, Marta Odoni, Angelo Carretta, Giampiero Negri

PA3410  Lung carcinoid tumors: the five-year experience of a portuguese thoracic department
Joana Rodrigues Barbosa (Lisboa, Portugal), Magda Alvoeiro, Mariana Antunes, Cláudia Sousa, Sara Salgado, Cristina Rodrigues

PA3411  Secondary pleural hydatidosis: complication of abdominal hydatid cysts
Imen Bouassida (Ariana, Tunisia), ghazouani atef, Bouassida Imen, Abdennadher Mahdi, Hazem Zribi, Ben Mansour Amani, Ouerghi Sonia, Zaïri Sarra, Marghli Adel

PA3412  Impact of the evolutionary stage of pulmonary hydatid cyst on the postoperative course
Abdessalem Hentati (Sfax, Tunisia), Walid ABID, Zied Chaari, Aymen Ben Ayed, Imed Frikha

PA3413  Secondary bronchogenic pleural hydatidosis: a rare entity
Imen Bouassida (Ariana, Tunisia), Rime Essid, Amina Abdelkibir, Hazem Zribi, Habib Bessrour, Mariem Affes, Sonia Ouerghi, Sarra Zaïri, Adel Marghli

PA3414  Patients managed for a lung hydatid cyst : what do they know about their pathology ?
Sarra Zaïri (Tunis, Tunisia), Dorra Jarraya, Mehdi Abdennadher, Hazem Zribi, Hela Kamoun, Amira Dridi, Hedia Belfali, Tahar Mestiri, Adel Marghli

PA3415  Chest wall hydatid cyst: an unusual localization
Abdessalem Hentati (Sfax, Tunisia), Aymen Ben Ayed, Walid Abid, Zied Chaari, Ahmed Ben Ayed, Imed Frikha

PA3416  Primary heterotopic pleural hydatidosis: a rare entity
Imen Bouassida (Ariana, Tunisia), Rime Essid, Mahdi Abdennadher, Chaker Jaber, Sarra Zaïri, Henda Neji, Amira Dridi, Hazem Zribi, Adel Marghli

PA3417  SURGICAL MANAGEMENT OF PULMONARY ARTERIOVENOUS MALFORMATIONS
mahdi Abdennadher (Ariana, Tunisia), Rime Essid, Hazem Zribi, Sarra Zaïri, Imen Bouassida, Henda Neji, Sonia Ouerghi, Mouna Milka, Adel Marghli

PA3418  Ectopic mediastinal thyroids: Surgical management and outcomes
Kenan Can Ceylan (Izmir, Turkey), Günthan Batihan, Şeyda Ors Kaya

PA3419  Mediastinal schwannoma
Imen Bouassida (Ariana, Tunisia), Rime Essid, Amina Abdelkibir, Hazem Zribi, Amani Ben Mansour, Ayda Ayedi, Sonia Ouerghi, Adel Marghli

PA3420  Thymectomy in the Management of juvenile myasthenia gravis
mahdi Abdennadher (Ariana, Tunisia), Mariem Hadj Dahmane, WIFEK SAIDANI, Hazem Zribi, Sarra Zaïri, Imen Bouassida, Sonia Ouerghi, Adel Marghli
**Pre-congress content**  
**Session 387**  
**13:15 - 14:15**

**E-poster: Biomarkers to phenotype COPD: prediction of exacerbations**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** Pulmonary function testing  
General respiratory patient care  
Imaging  
Epidemiology  
Cell and molecular biology  
Pulmonary rehabilitation  
Public health  
Physiology

**Chairs:** Zsófia Lázár (Budapest, Hungary), Pierre-Régis Burgel (Paris, France)

**PA3421**  
Proteobacteria phylum association with airway- and emphysema-dominant COPD phenotypes defined by computed tomography  
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Kairobi Haldar, Mike Barer, Deepak Subramanian, David Parr, Loems Ziegler-Heitbrock, Ivo Gut, Dave Singh, Chris Brightling

**PA3422**  
Real-world exacerbation rates in Japanese patients with COPD: results from the EXACOS observational cohort study  
Bo Ding (Möln达尔, Sweden), Rebecca Zaha, Masato Ishida, Sophie Graham, Ai Hayashi, Sam Huse, Hana Müllervö, Shigeo Muro

**PA3423**  
Expression of CD282+/CD284+ on blood granulocytes and its relationship to cytokine status in patients with stable chronic obstructive pulmonary disease  
Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Vitkina, Karolina Sidletska

**PA3424**  
Fat-Free Mass Index and functional limitation in COPD  
Sahnoun Mariam (Sfax, Tunisia), Kchaou Khouloud, Haddar Asma, Chakroun Sahar, Masmoudi Kaouthar

**PA3425**  
Is there an endotype to the treatable eosinophilic trait of chronic obstructive pulmonary disease (COPD)  
Olivia Walsh (Shropshire, United Kingdom), Manoj Marathe, Harshem Moudgil, Koottalai Šrinivasan, Emma Crawford, Annabel Makan, Nawaid Ahmad

**PA3426**  
Small Airways Disease and Emphysema (Assessed by High-Resolution CT) and Symptom Burden in COPD  
Nicolai Obling (Kgs. Lyngby, Denmark), Bojidar Rangelov, Vibeke Backer, John R Hurst, Uffe Bodgter

**PA3427**  
Clinical, functional, radiologic and quality of life characteristics in PI*SZ Alpha 1-Antitrypsin Deficiency (AATD) compared to PI*ZZ, PI*MZ and COPD without AATD: a retrospective cohort study.  
Claudio Tirelli (Vaiano Cremasco (CR), Italy), Stefania Ottaviani, Davide Piloni, Valentina Barzon, Alice Maria Balderacchi, Deborah Ambruoso, Alessandra Corino, Francesca Mariani, Ilaria Ferrarotti, Angelo Guido Corsico

**PA3428**  
The Correlation Between COPD Severity and The Left Ventricular Function  
jihen Ben Halima (Tunis, Tunisia), Asma Saidane, Emna Ben Jemai, Mabel Ben Halima, Haifa Zaibi, Hichem Aouina

**PA3429**  
What makes Alpha1-antitrypsin deficiency patients exacerbate: a 5-year cohort  
Nuno Faria (Porto, Portugal), Maria Inês Costa, Joana Gomes, Maria Sucena

**PA3430**  
COPD phenotypes on computed tomography and its relationship with exercise and ventilatory function  
Lídia Marília Valente Marques Sousa Gomes (São Pedro do Sul, Portugal), Sofia Rodrigues Sousa, João Nunes Caldeira, Samuel Pereira, Alexandra Tenda Cunha, Inês Farinha, Cidália Rodrigues

**PA3431**  
Brainstem auditory evoked potential in COPD patients : a comparative study  
asma haddar (Sfax, Tunisia), Ines Kammoun, Rim Kammoun, Khouloud Kchaou, Ghazi Sakly, Khouthar Masmoudi

**PA3432**  
Nutritional status in patients with chronic obstructive pulmonary disease - a first multi-centre experience in Croatia  
Davorka Mursic (Zagreb, Croatia), Tajana Julasic Gluncic, Jelena Ostojic, Sandra Skrinjarvic-Cincar, Lilijana Bulat Kardum, Martina Dokoza, Alina Rozman, Natasa Karamarkovic Lazarusic, Ermin Besic, Miroslav Samarzija, Andrea Vukic Dugac

**PA3433**  
Are there correlations between composite indexes and quality of life in COPD? DOSE vs ADO  
Khouloud Kchaou (Sfax, Tunisia), Asma Chaker, Soumaya Khalidi, Sahar Chakroun, Salma Mokaddem, Saloua Jameeladdine

**PA3434**  
Association of GDF-15 with 6 minute walking test.  
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Paula Martin Audera, Daymara Boucle Tirador, Mayte Garcia-Unzueta, Milagros Ruiz De Infante Pérez, Ana Berja, Armando Raúl Guerra, Bernardo Alo Lavin, Sheila Izquierdo Cuervo, Guido Andrea, Marta Cristeto, Joy Selene Osorio Chaves, Laura González, Noelia Borja Vargas, Juan Agüero, Diego Ferrer Pargada, Begoña Josa Laorden
Maximal respiratory pressures in COPD: What are the influencing factors?
Raquel Barros (Lisboa, Portugal), Liliana Raposo, Nuno Moreira, Margarida Rocha, Paula Calaça, Inês Spencer, Ana Sofia Oliveira, Cristina Bárbara

Paradoxical bronchoconstriction after administration of beta-2 agonist bronchodilators in COPD patients
Patricia Sobradillo Echenarro (Bilbao (Bizkaia), Spain), Nuria Marina, Silvia Pérez-Fernández, Eva Tabernero, Milagros Iribarri, Bartolomé Celli

Distance estimation and functional distance perception in patients with Chronic Obstructive Lung Disease (COPD)
Anne O'Mahony (Dripsey (County Cork), Ireland), Barry Nolan, Anna Mcdonough, Emer Kelly

Characterization of lung volumes in COPD
Liliana Raposo (Queijas, Portugal), Raquel Barros, Ana Sofia Oliveira, Cristina Bárbara

Is FEV1/FEV6 ratio a reliable tool in COPD diagnosis?
Sahar Chakroun (Sfax, Tunisia), Asma Chaker, Salma Mokaddem, Khouloud Kchaou, Khouzam, Saloua Jameleddine

Pre-congress content Session 388 13:15 - 14:15

E-poster: Digital health interventions in respiratory medicine
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Respiratory critical care, Sleep and breathing

Method(s): General respiratory patient care, Pulmonary rehabilitation, Pulmonary function testing, Transplantation, Physiology, Epidemiology, Public health

Tag(s): Digital health

Chairs: Vitalii Poberezhets (Vinnytsia, Ukraine), Annette Kainu (Helsinki, Finland)

Web-based support for self-management strategies versus usual care for people with COPD: 3 months follow up in a randomised controlled trial.
Tobias Stenlund (Umeå, Sweden), Andre Nyberg, Karin Wadell

Deep learning algorithm for the classification of spirometries using flow-volume curves: proof of concept study
Konstantinos Exarchos (Ioannina, Greece), Dimitrios Potonos, Agapi Aggelopoulou, Agni Sioutkou, Konstantinos Kostikas

Pulmonologists collaborate with explainable artificial intelligence for superior interpretation of pulmonary function tests
Nilakash Das (Leuven, Belgium), Sofie Happaerts, Marko Topalovic, Wim Janssens

Feasibility of smartphone-based physical activity tele-coaching in lung transplant recipients
Emily Hume (Newcastle Upon Tyne, United Kingdom), Hazel Muse, Kirstie Wallace, Mick Wilkinson, Karen Heslop, Marshall, Arun Nair, Jose Sanchez, Josep Benavent, Jim Roldan, Stephen Clark, Ioannis Vogiatzis

Development and testing of Walk.Talk.Track. app - a wearables-based platform for mobile 6MWT monitoring
Ryan Anderson (Oakland, United States of America), Vladimir Glinskii, Alejandra Lopez, Aileen Lin, Patricia Del Rosario, Steve Hershman, Vinicio De Jesus Perez, Roham Zamanian

Pre-post evaluation of healthcare resource utilization (HCRU) among patients with COPD enrolled in a digital health intervention
Thomas Brazeal (Orange, United States of America), Leanne Kaye, Rahul Gondalia, Marwa Bassiouni, Meredith Barrett, David Stempel

Multilabel classification of disease prediction in patients presenting with dyspnea
Fabienne Jaun (Liestal, Switzerland), Justus Baarts, Stéphanie Giezendanner, Giorgia Lüthi-Corridori, Michael Brändle, Thomas Dieterle, Luca Gabutti, Angelika Hammerer-Lercher, Paul Hasler, Katja Henny-Fullin, Jürgen Muser, Gregor Leibundgut, Anne Leuppi-Taegtmeyer, Corinne Punsap Marbet, Christian Scharner, Jörg D. Leuppi

Prompting sedentary behaviour change in COPD: Acceptability and feasibility of wearable device
Wade Michaelchuk (Toronto, Canada), Anne-Marie Selzler, Roger Goldstein, Dina Brooks

A systematic review to assess the components of clinical decision support systems (CDSS) in chronic respiratory disease (CRD) and their relevance to physiotherapy management
Katherine O'Neill (Belfast, United Kingdom), Katherine O'Neill, Helen Parrott, Rebecca Mc Grath, Curtis Neilly, Judy. M. Bradley
| PA3450 | Machine learning for estimating individual treatment effects in randomized controlled trials  
Kenneth Verstreete (Leuven, Belgium), Nilakash Das, Iwein Gyseleinck, Maarten De Vos, Wim Janssens |
| PA3451 | Quantitative assessment of breath sound above the trachea in children with asthma  
Evgeni Furman (Perm (Perm Krai), Russian Federation), Ekaterina Khuzina, Sergey Malinin, Alexander Kasyanov, Mariya Ponomareva, Yulya Aliyeva, Nataliya Kalinina, Irina Hatmulina, Vladimir Sokolovsky, Gregory Furman |
| PA3452 | Pan-Canadian Respiratory Standards Initiative for Electronic Health Records (PRESTINE): Validation of a Severe Asthma Algorithm  
Alison Morra (Kingston, Canada), Emma Bullock, Noah Tregobov, Delanya Podgers, Catherine Lemiere, M. Diane Loughed |
| PA3453 | Remote monitoring of lung function in asthmatic children with telespirometry  
József Tolnai (Szeged, Hungary), Ferenc Peták, Roberta Sudy, Gergely H. Fodor, Zoltán Novák |
| PA3454 | Cystic fibrosis internet postings; a two year comparative study 2015 & 2019  
Tamar Vagg (Cork, Ireland), David Morrissy, Nicola J. Ronan, Mairead Mccarthy, Claire Fleming, Yvonne Mccarthy, Sabin Tabirca, Barry J. Plant |
| PA3455 | Efficacy of instant messages applications in smoking cessation in patients with COPD.  
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Dmytro Dmytryiev, Kateryna Dmytryieva |
| PA3456 | Automatic lung sound analysis accuracy: a validation study  
Alexander Mathioudakis (Stockport, United Kingdom), Olga Kharevich, Elena Lapteva, Irina Kovalenko, Elena Katibnikova, Anastasia Pozdnyakova, Anatoly Laptev, Valentin Korovkin, Irina Bezrucho, Galina Novskaya, Irina Lantuchova, Ekaterina Monosova, Maria Zhurovich, Ivan Dulub, Olga Adamovich, Viktoria Hotko, Helena Binetskaya, Aleksey Karankevich, Vitali Dubinskii |
| PA3457 | Barriers and enablers of attendance to a virtual pulmonary rehabilitation programme  
Maria Kouloupolou (London, United Kingdom), Victoria Meyrick, Michelle Johnson, Gemma Kerslake, Peter Cho, Laura-Jane Smith, Charles Reilly, Irem Patel |

Pre-congress content Session 389 13:15 - 14:15

E-poster: Primary ciliary dyskinesia and tracheostomy

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): Epidemiology General respiratory patient care Pulmonary function testing Cell and molecular biology Public health imaging Palliative care

Chairs: Myrofora Goutaki (Bern, Switzerland), Sarah Brown (Ashford (Kent), United Kingdom)

Development and first results of the BEAT-PCD international Primary Ciliary Dyskinesia gene variant database: CiliaVar

Mani Rahma (Sousse, Tunisia), Mafalda Gomes, Adrián Rodríguez González, Claire Hogg, Deborah Morris-Rosendahl, Bernard Maitre, Mahmoud R Fassad, Myrofora Goutaki, Jane S Lucas, Amelia Shoemark, Hannah M Mitchison, Marie Legendre, Suzanne Crowley

Diagnosis of Primary Ciliary Dyskinesia: Discrepancy according to different algorithms

Loretta Müller (Bern, Switzerland), Mirjam Nussbaumer, Elisabeth Kieninger, Stefan A. Tschanz, Sibel T Savas, Myrofora Goutaki, Claudia E Kuehni, Sylvain Blanchon, Philipp Latzinh

Comparison Of Lung Clearence Index, Impulse Oscillometry And Spirometry in Children With Primary Ciliary Dyskinesia

Pınar Ergenekon (Istanbul, Turkey), Utku Batu, Ela Erdem Eralp, Cansu Yılmaz Yegit, Muruvvet Cenk, Yasemin Gokdemir, Bulent Karadag

Service delivery models for primary ciliary dyskinesia, an international comparison

Bruna Rubbo (Southampton (Hampshire), United Kingdom), Laura Behan, Corine Driessens, Rodrigo Athanazio, Antony Terance Benjamin, Veerappan Ramamoorthi Ram Ganesh, Johnny Goodwin, Bulent Karadag, Panayiotis Kouis, Ana Reula Martin, Kim Nielsen, Mary Olm, Heymut Omran, Jean-Francois Papon, Andreia Pinto, Nisreen Rumman, Deborah Snijders, Zorica Zivkovic, Camille Parsons, Claudia E Kuehni, Jane S Lucas

Respiratory symptoms and physical activity in patients with Primary Ciliary Dyskinesia in Switzerland

Yin Ting Lam (Bern, Switzerland), Leonie Hülsler, Eugenie Collaud, Eva Pedersen, Claudia Kuehni, Myrofora Goutaki
PA3463 Does nasal irrigation (NI) improve outcomes in children with primary ciliary dyskinesia (PCD)?: a scoping review
Amanda Lea Harris (Southampton (Hampshire), United Kingdom), Jane Lucas, Myrofora Goutaki

PA3464 The role of genetics in diagnosing primary ciliary dyskinesia (PCD) in pediatric patients in Gothenburg, Sweden.
Christina Kavouridou (Brömholm, Sweden), Karsten Kötz

PA3465 Case series of 25 children with Primary Ciliary Dyskinesia (PCD): evolution over the last 33 years
Sergio Iniesta González (Valencia, Spain), Diannet Quintero García, Angela Moreno Palomino, Ana Barrés Fernández, Silvia Castillo Corullón

PA3466 Face mask usage against SARS-CoV-2 among people with primary ciliary
Eva Sophie Lunde Pedersen (Bern, Switzerland), Eugénie N R Collaud, Rebeca Mozun, Katie Dexter, Catherine Kruljac, Hansruedi Silberschmidt, Jane S Lucas, Myrofora Goutaki, Claudia E Kuehni

PA3467 Depression and anxiety in mothers of home ventilated children before and during COVID-19 pandemic
Pinar Ergenekon (Istanbul, Turkey), Cansu Yilmaz Yegit, Nilay Bas İkizoglu, Emine Atag, Yasemin Gökdemir, Ela Erdem Eralp, Bulent Karadag

PA3468 Effect of standardized hands-on-training in caregivers of children with tracheostomy

PA3469 The effect of training the health care providers with simulation model on the care of patients with chronic tracheostomy

PA3470 Respiratory Issues in patients with Spinal Muscular Atrophy (SMA) type 1, Treated with Disease-Modifying Therapy
Mirella Gaboli (Sevilla, Spain), Mercedes López-Lobato, Marcos Madruga-Garrido, Macarena Borroto-Rodriguez, Alejandro Palomo-Pavón, Rocío Escudero-Avila

Pre-congress content  Session 390  13:15 - 14:15
E-poster: COVID - 19

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases  Interstitial lung diseases  Respiratory critical care
Method(s): Respiratory intensive care  Public health  General respiratory patient care  Epidemiology  Cell and molecular biology  Imaging
Tag(s): COVID

Chairs: Jennifer Cane (Oxford (Oxfordshire), United Kingdom), Andrea Gramegna (Milano (MI), Italy)

PA3471 Correlation between initial oxygen desaturation and initial chest scan findings of COVID19
arbia chaieb (Tunis, Tunisia), Sarra Maazaoui, Sonia Habibech, Mariem Friha, Tasnim Zneigui, Neder Mefteh, Slim Ghdira, Hajer Racil, Nawel Chaouch

PA3472 Blood lactate level in patients with severe COVID-19: Does it have any added value?
Raghaa Hassan (Telford, United Kingdom), H Moudgil, E J Crawford, A Makan, S Srinivasan, N Ahmad

PA3473 Predicting mortality in patients admitted to hospital with COVID-19 infection: a retrospective analysis of data for a District General Hospital in the United Kingdom
Colette Davidson (Dundee (Angus), United Kingdom), Huw Ellis, Rochelle Arulananandam, Dileep Nair, Haleema Siddique, Eleanor Tindall, Efstathia Venizelou, Andrew Womersley, Charlotte Campbell, Mitra Shahidi

PA3474 Rapid SARS-CoV-2 antigen testing compared with RT-qPCR in patients suspected for COVID-19
Gorica Popova (Skopje, North Macedonia), Katerina Boskovska, Ivana Arnaudova Danesvka

PA3475 Severe COVID-19 patients: predictive factors for high oxygen requirement
Samia Essebaa (Ariana, Tunisia), Selsabil Daboussi, Samira Mhamdi, Nouha Boubaker, Islem Mejri, Chiraz Aichaouia, Zied Moatenri, Mohsen Khadhraoui
Sarcopenia prevalence in recovered of COVID-19 patients.
Maria Fernanda Salgado Fernández (México City, Mexico), María Fernanda Salgado Fernández, Dulce González Islas, Arturo Orea Tejeda, Carlos Sánchez Moreno, Samantha Hernández López, Susana Galicia Amor, Rodrigo Hernández Zenteno, Viridiana Peláez Hernández, Oscar Vázquez Díaz, Juan Orozco Gutiérrez

CT quantification of lung lesions as a prognostic factor for severe lung damage in COVID-19 patients
Hela Cherif (Tunis, Tunisia), Bochara Karaborni, Amine Boufaraes, Zeyneb Teyeb, Syrine Belakhel, Marwa Bougacha, Mariem Triki, Ferdaous Yangui, Mohamed Ridha Charfi

COVID-19: the day after
Elvira Markela Antonogiannaki (Athens, Greece), Konstantinos Thomas, Dimitra Kavatha, Effrosyni D. Manali, Dimitrios Konstantonis, Nikolaos Achilles Arkoudis, Athanassios Tsoschatzis, Pinelopi Kazakou, Sotiria Grigoropoulou, Christos Psarrakis, Maria Paneta, Maria Kallieri, Chrysanthi Oikonomopoulou, Stylianos Loukidis, Anastasia Antoniadou, Spyros A. Papiris

Mortality after hospitalisation for COVID19, and identification of prognostic factors on admission that increase mortality risk
Kristian Brooks (North Shields (Tyne and Wear), United Kingdom), Stephen Murphy, Matthew Dickson, Louise Robinson, Natalie Cummings, Fatima Khalil, Mohammad Fayaz

Differences between characteristics of patients admitted for Covid 19 between the first and second waves
Ana Maria Aguilar Galvez (MALAGA, Spain), Esther Sanchez Alvarez, Alvaro Martinez Mesa

Factors associated with admission of COVID-19 patients in intensive care unit
Alain BAKEBE (Longjumeau, France), Daniel Cobarzan, Kamel Chauouche, Gerard Oliviero, Florence Durup, Sarah Benhamida, Laurent Decoux

Michael Brovko (Moscow, Russian Federation), Pavel Potapov, Alexandra Yakovleva, Alexey Volkov, Marina Kinkulkina, Yulia Tikhonova, Sergey Moiseev

Pneumoniacidistinum in patients with Covid-19 pneumonia - case series
Daniela Stefana Gologanu (Bucuresti (Sector 1), Romania), Valentin Nedelcu, Victorita Micu, Ion Andrei Ion, Lelia Iliescu, Marius Ioan Balea

The dual-use of nasal strip in the surveillance of active and convalescent SARS-CoV-2 cases
Renée WY Chan (Hong Kong, Hong Kong), Joseph G S Tsun, Shaojun Liu, Grace C Y Lui, Kate C C Chan, Kathy Y Y Chan, Rita W Y Ng, Paul K S Chan, Albert M Li, Simon Lam

Residual symptoms in moderate to severe COVID-19 patients
SABRINE ELFIDHA (TUNIS, Tunisia), Sabrine Louhaichi, Ikbel Khalifallah, Safa Marzouki, Line Kaabi, Rihab Jebeli, Mohamed Ali Kharrat, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

Minimizing aerosol leakage for nebulizer treatment in the COVID-19 pandemic
Iris Lauwers (Eindhoven, Netherlands), Mylene G.H. Frankfort, Sjoerd Dijkstra, Emerentia M.C. Pruijn, Liza H.G. Boormans, Romy T.J. Lauwers, Irene S. Lensen, Tim De Jong, Lex P.B. Verberne, Iris M.E. Idema, Nico A. Schouten, Corrinus C. Van Donkelaar, Hettie M. Janssens

An evaluation of neutrophils in COVID-19 patients
Sandra Ekstedt (Solna, Sweden), Krzysztof Piersiala, Åsa Kågedal, Marianne Petro, Susanna Kumlien Georén, Lars Olaf Cardell

Are white blood cells count, neutrophil-to-lymphocyte ratio, lymphocyte to monocyte ratio and platelet-to-lymphocyte ratio associated with severe COVID-19 infection?
Aissa Sana (Sousse, Tunisia), Omrane Asma, Benzarti Wafa, Hajjej Sabri, Gargouri Imen, Knaz Asma, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Benzarti Mohamed

Prognostic value of neutrophil-to-lymphocyte ratio in hospitalized patients with COVID-19
Nouha Boubaker (Nabeul, Tunisia), Besma Hamdi, Sabrine Louhaichi, Ikbel Khalifallah, Mariem Ferchichi, Safa Belkhir, Jamel Ammar, Agnès Hamzaoui

Urinealyses parameters as a useful tool to predict severity in coronavirus disease 2019 (COVID19)
Warda Jelassi (TUNIS, Tunisia), Meriem Mjid, Yosra Yahia, Y Messaoudi, Saoussen Khnari, Asma Allouche, Marwa Klila, Yacine Ouahchi, Mahdi Gharbi, Sana Cheikhouhou, Hamida Maghraoui, Foued Daly, Samira Merai, Sonia Toujani, Besma Dahri
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care Airway diseases Interstitial lung diseases

Method(s): Respiratory intensive care Surgery Transplantation General respiratory patient care Pulmonary function testing Epidemiology Physiology

Chairs: Berta Saez Gimenez (Sant Cugat del Vallès (Barcelona), Spain), Merel Hellemons (Rotterdam, Netherlands)

PA3491 Lung transplantation for COVID-19 induced ARDS: a single-center experience
Christian Lang (Vienna, Austria), Panja M Boehm, Peter Jakusch, Gabriella Muraközy, Alberto Benazzo, Stefan Schwarz, Thomas Schweiger, Peter-David Berend, György Lang, Jose R. Matilla, Mir Alireza Hoda, Bernhard Moser, Shahrokh Taghavi, Walter Klepetko, Konrad Hoetzenecker

PA3492 Short and mid-term outcomes of lung transplant recipients with COVID-19
Sofie Happaerts (Leuven, Belgium), Natalie Lorent, Jonas Yserbyt, Lieven J. Dupont, Christophe Dooms, Pascal Van Bleienbergh, Bart M. Vanaudenaerde, Stijn E. Verleden, Laurens J. Ceulemans, Dirk E. Van Raemdonck, Geert M. Verleden, Robin Vos, Laurent Godinas

PA3493 Covid 19 in a lung transplant population
Jana Kleinerová (Dublin 5, Ireland), Agnieszka Blum, Patricia Ging, Michelle A Murray, Peter O’Gorman, Jim Egan

PA3494 Cryptococcus infections in cardiothoracic transplant recipients – a variable journey
Roopam Sehajpal (New Delhi (Delhi), India), Kavita Dave, Darius Armstrong-James, Martin Carby, Owais Dar, Anna Reed, Vicky Gerovasili

PA3495 Surveillance bronchoscopy in cystic fibrosis transplanted patients is safe and effective.
Mariaenrica Tine (Padova (PD), Italy), Marco Damin, Davide Biondini, Michele Rizzo, Giulia Andreotti, Simone Petrarulo, Erica Bazzan, Graziella Turato, Federico Rea, Fiorella Calabrese, Elisabetta Balestro, Manuel G. Cosio, Marina Saetta

PA3496 Single centre lung transplant experience of customised biodegradable stents in the early post-lung transplant period.
Vicky Gerovasili (OXFORD, United Kingdom), Kavita Dave, Fauzia Imam, Nora Mayer, Nizar Asadi, Martin Carby, Anna Reed

PA3497 Airway oscillometry after single lung transplantation is characterised by abnormal respiratory reactance
Joan P.Y. Sim (Sydney, Australia), David R. Darley, Kristopher Nilsen, Riva Shirol, Brigitte M. Borg, Jaideep Vazirani, Bronwyn Levvey, Gregory Snell, Marshall Plit, Katrina O. Tonga

PA3498 Prognostic significance of amino-terminal pro-brain natriuretic peptide testing among waitlisted lung transplant candidates
Shimon Izhakian (Petach Tikva, Israel), Assaf Frajman, Lev Freidkin, Mordechai Kramer

PA3499 Late Breaking Abstract - Prognostic impact of decreased erector spinae muscle radiographic density after lung transplantation
Yohei Oshima (Kyoto, Japan), Susumu Sato, Toyofumi F. Chen-Yoshikawa, Daisuke Nakajima, Yuji Yoshioka, Ryota Hamada, Ayumi Otagaki, Manabu Nankaku, Hiroshi Date, Shuichi Matsuda

Pre-congress content Session 392 13:15 - 14:15

E-poster: COPD burden, epidemiology and management
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases

Method(s): General respiratory patient care Epidemiology Public health Pulmonary function testing Physiology Cell and molecular biology

Chairs: Morten Dahl (Køge, Denmark), Sanne van Kampen (Leiden, Netherlands)

PA3500 Prognostic differences between heart failure with preserved versus reduced ejection fraction in people with COPD
Claudia Gulea (London, United Kingdom), Rosita Zakeri, Jennifer K Quint

PA3501 To achieve only primary education is associated with COPD and poor prognosis
Anne Lindberg (Boden, Sweden), Linnea Hedman, Caroline Stridsman, Christian Schyllert, Eva Rönmark, Helena Backman
<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3502</td>
<td>Identification and analysis of clinical phenotypes in COPD patients: PALOMB Cohort</td>
<td>El-hassane Oualamaya (Bordeaux, France), Maëva Zyssman, Émilie Berteaud, Laurent Falque, Emmanuel Monge, Laurent Nguyen, Anneaig Ozier, Jean Michel Dupis, Marielle Sabatini, Cécilia Nocent-Ejnaini, Laura Petrov, Alain Bernady, Christophe Roy, Frédéric Le Guillou, Mohammed Aliati, Anne Prudhomme, Marie Line Quinquenel, Mohammed Staali, Frederic Pilard, Esther Iglesias, Marc Sapène, Julien Casteigt, Jean Moinard, Yannick Daouidi, Élodie Blanchard, Julie Macey, Rémi Veillon, Xavier Demant, Claire Bon, Leo Grassion, Mathieu Molimard, Chantal Raherison-Semjen</td>
</tr>
<tr>
<td>PA3503</td>
<td>Social distancing and admissions for severe exacerbations of COPD – a nationwide study</td>
<td>Mohamad Isam Saeed (Copenhagen C, Denmark), Pradeesh Sivapalan, Josefín Eklöf, Charlotte Ulrik, Andrea Browatzki, Ulla Weinreich, Torben Jensen, Tor-Biering Sørensen, Jens-Ulrik Jensen</td>
</tr>
<tr>
<td>PA3504</td>
<td>The association of comorbidity clusters with long-term survival and incidence of exacerbation in a COPD cohort. The HUNT Study, Norway.</td>
<td>Sigrid Anna Vikjord (Levanger, Norway), Ben Michael Brumpton, Xiaow-Mei Mai, Lowie Vanfleteren, Arnulf Langhammer</td>
</tr>
<tr>
<td>PA3505</td>
<td>Undiagnosed COPD in adults 40 years and older: Reports from the Tunisian Population-Based Burden of Obstructive Lung Disease Study</td>
<td>Meriam Denguezli (Sousse, Tunisia), Hager Daldoul, Nadia Lakhdar, André Amaral, Peter Burney</td>
</tr>
<tr>
<td>PA3506</td>
<td>The population risk attribution associated with chronic airway obstruction from the results of the Canadian Obstructive Lung Disease study.</td>
<td>Wan Cheng Tan (Vancouver (BC), Canada), Pei Li, Rena Choi, Jean Bourbeau, Shawn Aaron, Clarius Leung, François Maltais, Paul Hernandez, Kenneth Chapman, Brandie Walker, Darcy Marciniuk, Denis O'Donnell, James Hogg, Jeremy Road, Mark Fitzgerald, Andre Amaral, William Vollmer, Peter Burney, Sonia Buist, Don Sin</td>
</tr>
<tr>
<td>PA3507</td>
<td>Treatment for chronic obstructive pulmonary disease prior to early permanent detachment from the workforce.</td>
<td>Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Krågholm, Ulla Møller Weinreich, Christian Torp-Pedersen</td>
</tr>
<tr>
<td>PA3508</td>
<td>Workforce connection at first admission with AECOPD and age at permanent detachment.</td>
<td>Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Krågholm, Christian Torp-Pedersen, Ulla Weinreich</td>
</tr>
<tr>
<td>PA3509</td>
<td>Respiratory morbidity in Nepali communities: a cross-sectional analysis.</td>
<td>Charlotte Bolton (Nottingham (Nottinghamshire), United Kingdom), Sanjib Kumar Sharma, Om Prakash Kurmi, Bruno Lab, François Chappuis, Olivia Heller, S Lohani, P Gautam, Ian Hall</td>
</tr>
<tr>
<td>PA3510</td>
<td>Prevalence and risk factors of chronic cough among adult in Nepal: results from a community-based study (COBIN-P)</td>
<td>Tara Ballav Adhikari (Kathmandu, Nepal), Mariann Hogmann, Brendan Cooper, Anupa Rijal, Arne Drews, Arjun Kark, Torben Sigsgaard, Dinesh Neupane, Per Kallestrup</td>
</tr>
<tr>
<td>PA3511</td>
<td>Lifetime spirometric patterns of obstruction and restriction: risk factors and outcomes.</td>
<td>Shyamali Dharmage (Carlton Victoria, Australia), Dinh Bui, Haydn Walters, Andrian Lowe, Bruce Thompson, Paul Thomas, Judith García-Aymierich, Garun Hamilton, Davids John, Peter Frith, Rosa Faner, Alvar Agusti, Michael Abramson, Jennifer Perret, Caroline Lodge</td>
</tr>
<tr>
<td>PA3512</td>
<td>Leptin levels are associated with reduced lung function in men with COPD.</td>
<td>Ulf Nilsson (Umeå, Sweden), Stefan Söderberg, Helena Backman, Anders Blomberg, Anne Lindberg</td>
</tr>
<tr>
<td>PA3513</td>
<td>Prevalence of alpha-1-antitrypsin deficiency (A1AD) in patients with COPD.</td>
<td>Manuel Barros Monge (Valparaíso, Chile), Rafael Silva, Karen Czischke, Fernando Saldías, Juanita Pavié, Mauricio Jalón, María Guacolda Benavides, Bernardo San Martín, Ximena Cea, Laura Mendoza, Rosa Roldán, Luis Soto, Manuel De La Prada, Alcides Zambrano, Jorge Villalobos, Mónica Gutiérrez, Mauricio Riquelme, Mauricio Tapia, Jorge Dreyse</td>
</tr>
<tr>
<td>PA3514</td>
<td>Relationship status and respiratory diseases: an analysis on a general population sample.</td>
<td>Lucia Cazzoletti (Verona (VR), Italy), Maria Elisabetta Zanolin, Leonardo Antonicelli, Salvatore Battaglia, Roberto Bono, Angelo Corsico, Nicola Murgia, Mario Olivieri, Pietro Pirina, Giuseppe Verlato, Marcello Ferrari</td>
</tr>
<tr>
<td>PA3516</td>
<td>Chronic obstructive pulmonary disease (COPD) prevalence surveys in low- and middle-income countries (LMICs): A systematic scoping review of methodologies</td>
<td>Nik Sherina Hanafi (Kuala Lumpur, Malaysia), Dhiraj Agarwal, Soumya Chippagiri, Evelyn Brakema, Hilary Pimnok, Ee Ming Khoo, Aziz Sheik, Su-May Liew, Chiu-Wan Ng, Rita Isaac, Karuthan Chinnia, Li Ping Wong, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong-Kee Pang, Sanjay Juvekar</td>
</tr>
</tbody>
</table>
Development of a predictive model for chronic obstructive pulmonary disease onset with identification and ranking of risk factors
Martina Vettoretti (Padova, Italy), Andrea Facchinetti, Barbara Di Camillo

Blood eosinophilia in chronic obstructive pulmonary disease: impact on exacerbations risk and severity
Ines Laouini (Nabeul, Tunisia), Haifa Zaibi, Emma Ben Jmia, Hend Ouertani, Jihene Ben Amar, Hichem Aouina

Poverty and chronic airflow obstruction in the multinational Burden of Obstructive Lung Disease (BOLD) study: An update
Jaymini Patel (London, United Kingdom), Andre F.S. Amaral, Cosetta Minelli, Fadlalla G. Elfadaly, Peter Burney

Pre-congress content
Session 393 13:15 - 14:15
E-poster: Advances in asthma treatment

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases
Method(s): General respiratory patient care  Epidemiology  Pulmonary function testing  Endoscopy and interventional pulmonology  Surgery
Tag(s): Digital health

Chairs: Charlotte Suppli Ulrik (Virum, Denmark), Stylianos Loukides (Athens, Greece)

Real-world treatment patterns of newly diagnosed patients with asthma and/or COPD
Aniek Markus (Rotterdam, Netherlands), Peter Rijnbeek, Jan Kors, Guy Brusselle, Edward Burn, Daniel Prieto-Alhambra, Katia Verhamme

Triple combination therapy in severe asthma: overview from the Italian Registry Severe Asthma (IRSA)
Claudio Micheletto (S.Giovanni Lupatoto, Italy), Maria Beatrice Bilò, Leonardo Antonicelli, Fausto De Michele, Antonino Musarra, Adriano Vaghi

Annual systemic and inhaled corticosteroid exposures in US patients ≥4 years with asthma
Miguel Lanz (Coral Gables, United States of America), Ileen Gilbert, Michael Pollack, Hitesh Gandhi, Joseph Tkacz, Njira Lugogo

Mindfulness based therapy in poorly controlled asthma: Will patients attend and do they benefit?
Steven Smith (Glasgow, United Kingdom), Steven Smith, Moira Mcguinan, Bridie O'Dowd, Nicola Lee, Freda Yang, Traceyanne Grandison, Victor Noguer, Katrina Bissett, Malcolm Shepherd, Rekha Chaudhuri

Bronchial Thermoplasty and severe asthma with frequent severe exacerbations: a controlled study.
Justine Leroux (Strasbourg, France), Naji Khayath, Cezar Matau, Diana Ochea, François Lefebvre, Anita Molard, Frederic De Blay

Healthcare costs associated with short-acting β2-agonist use in asthma: an observational UK study from the SABINA global programme
Darush Attar (London, United Kingdom), Toby Capstick, Deborah Leese, Sofie Arnetorp, Eleni Rapsomaniki, Keith Peres Da Costa, Yang Xu, Jennifer K Quint

Efficacy of different dosing regimes of azithromycin in a real-world severe asthma cohort
Ayesha Kumar (Liverpool, United Kingdom), Seher Zaidi, Nicola Fay, Thomas Fitzmaurice, Abigail Watkin, Hannah Joplin, Hassan Burhan

A preliminary study to identify correlations between blood glucose levels and cardiorespiratory observations in acute asthma patients receiving nebulised salbutamol.
Craig Mortimer (Sevenoaks (Kent), United Kingdom)

Oral corticosteroids-related comorbidities in severe asthma
Adriano Vaghi (Bollate (MI), Italy), Leonardo Antonicelli, Maria Beatrice Bilò, Fausto De Michele, Claudio Micheletto, Antonino Musarra

Evaluation of Asthma control and oral corticosteroids in Severe Asthma
Claudio Micheletto (S.Giovanni Lupatoto, Italy), Maria Beatrice Bilò, Leonardo Antonicelli, Fausto De Michele, Antonino Musarra, Adriano Vagni

Implementation of a nursing led intervention bundle in the Emergency Department: Outcomes
Wei Yang Lim (Singapore, Singapore), Wesley Yeung, Norris Ling, Lay Ping Neo, Lathy Prabhakaran, Nora Bte Said, Jaleelah Beevi Bte Noor Mohamed, Mei Fong Liew, Pee Hwee Pang, John Abisheganaden, Tow Keang Lim, Hui Fang Lim
Spirometric changes in bronchodilation tests as predictors of asthma diagnosis and treatment response in patients with FEV1 ≥80% predicted
Min Zhang (, China), Hujuan Hao, Wuping Bao, Yishu Xue, Yan Zhou, Zhixuan Huang, Dongning Yin, Yingying Zhang, Pengyu Zhang, Chengjian Lv, Lei Han, Xin Zhou, Junfeng Yin

Use of health care and management of asthma patients in the emergency room during the COVID 19 pandemic: lessons for the next wave.
Simon Foulquier (Bruguières, France), Elise Noel Savina, Laurent Guillemainault, Alain Didier, Frederic Balen

The effects of nebulised beta-2 agonists on clinical observations in asthma exacerbations: a systematic review
Craig Mortimer (Sevenoaks (Kent), United Kingdom), Dimitra Nikoletou, Ann Ooms, Julia Williams

Inhaled antibiotic therapy in patients with severe asthma
ELENA AVALOS PEREZ-URRIA (Madrid , Spain), Rosa Maria Girón Moreno, Carolina Victoria Cisneros Serrano, Elisa Martínez Besteiro, Marta Erro Iribarren, Adrián Martínez Vergara, Elena García Castillo, Ana Martínez Meca, Julio Ancochea

Shared decision making in severe asthma therapy: qualitative study of physician-patient communication
Ember Lu (Philadelphia, United States of America), Katya Solovyeva, Zachary Hebert, Lisa Kietzer, Simon Griffiths, Zeina Eid Antoun, Tom Keeley, Rafael Alfonso-Cristancho

Late Breaking Abstract - Response to mepolizumab in patients with severe CRSwNP using EUFOREA 2021 criteria
Valerie J. Lund (London, United Kingdom), Claire Hopkins, Joseph K Han, Claus Bachert, Zuzana Diamant, Wystke Fokkens, Ana R Sousa, Steven G Smith, Shihing Yang, Bhabita Mayer, Steve W Yancey, Robert Chan, Stella E Lee

Late Breaking Abstract - Two-year cumulative oral corticosteroid exposure in severe eosinophilic asthma before and after anti-IL-5 therapy
Johannes A Kroes (Leeuwarden, Netherlands), Sybrand W J Zelhuis, Kim De Jong, Sander W Zelhuis, Eric N Van Roon, Elisabeth H D Bel, Anneke Ten Brinke

Late Breaking Abstract - Early benefits in patient-reported outcomes (PROs) and physical activity (PA) in patients with severe eosinophilic asthma (SEA) treated with benralizumab: interim analysis of the imPROve Asthma study
Marek Lommatzsch (Rostock, Germany), Stephanie Korn, Tanja Plate, Thorsten Grund, Henrik Watz

Late Breaking Abstract - International, prospective real-world study of mepolizumab in patients with severe asthma at one year: REALITI-A
Charles Pilette (Bruxelles, Belgium), Giorgio Walter Canonica, Rekha Chaudhuri, F. Eun-Hyung Lee, Jason Kihyuk Lee, Carlos Almonacid Sanchez, Rafael Alfonso-Cristancho, Rupert Jakes, Aoife Maxwell, Robert Price, Peter Howarth

E-poster: Thoracic ultrasound as a bedside clinical tool
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care, Thoracic oncology, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): General respiratory patient care, Respiratory intensive care, Imaging, Endoscopy and interventional pulmonology

Chairs: Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Pia Iben Pietersen (Odense NØ, Denmark)

Diagnosing pneumothorax through standardized bilateral ultrasound images comparison
Guido Levi (Bovezzo, Italy), Riccardo Maria Inciardi, Manuela Ciarfaglia, Jordan Franz Giordani, Laura Pini, Claudio Tantucci, Chiara Rochetti, Giampietro Marchetti

Effect on length of stay in a district general hospital after respiratory led pleural interventions
Samir Naik (Harlow (Essex), United Kingdom), Ravii Ragatha, Ugo Ekeowa, Peter Russell, Alex Lupu, Manpreet Kainth, Jian Khoo

Lung ultrasound and high-resolution CT-scan of the chest for COVID-19 pneumonia
Andrea Smargiassi (Roma (RM), Italy), Gino Soldati, Carmelo Sofia, Tiziano Perrone, Elena Torri, Federico Mento, Domenico Milardi, Paola Del Giacomo, Giuseppe De Matteis, Maria Livia Burzo, Anna Rita Larici, Maurizio Pompili, Libertario Demi, Riccardo Inchingolo

Diagnostic efficacy and suitability of trans-thoracic ultrasound for pleural effusion detection–The future non-invasive gold-standard. (study of 4597 cases)
Abdul Rasheed Qureshi (Lahore, Pakistan)

Quantitative pleural fluid echogenicity on ultrasound as a novel imaging biomarker
Maged Hassan (Alexandria, Egypt), Marawan Abo Ouf
Diagnostic yield and complications of ultrasound-guided transthoracic biopsy in 143 Algerian patients
Mohamed Redha Selmani (Batna, Algeria), Bouthayna Chiboub, Ibtissem Djari, Rania Direch, Abdelmadjid Djebbar

Study for evaluation of transthoracic lung ultrasound in diagnosis of pulmonary embolism
Asmaa AbdelKader (Alexandria, Egypt), Mohamed Zidan, Heba Eshmawey, Heba Gharraf

Late Breaking Abstract - Usefulness of lung ultrasound in the diagnosis and early detection of acute chest syndrome in children with sickle cell disease
Celine Delestrain (Creteil, France), Houmam El Jurd, Corinne Guittin, Irina Craiu, Guillaume Thouvenin, Laura Berdah, Blandine Prevost, Vincent Gajdos, Ralph Epaud, Corinne Pondarre, Fouad Madhi

Pre-congress content
Session 395 13:15 - 14:15
E-poster: Therapies for respiratory diseases in primary care and COVID - 19
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care, Airway diseases
Method(s): Public health, General respiratory patient care, Pulmonary function testing, Palliative care
Tag(s): COVID, Digital health
Chairs: Su May Liew (Kuala Lumpur, Malaysia), Tiago Maricoto (Aveiro, Portugal)

Recognising the long-term burden of short course oral corticosteroids
Liam G. Heaney (Belfast (Belfast), United Kingdom), Florence Schleich, Stephanie Korn, Peter Howarth, Zeina Eid Antoun, Arnaud Bourdin, Giorgio W. Canonica

Short-acting β2-agonists and greenhouse gas emissions in Europe and Canada
Christer Janson (Uppsala, Sweden), Ekaterina Maslova, Alexander Wilkinson, Erika Penz, Alberto Papi, Nigel Budgen, Claus F. Vogelmeier, Maciej Kupczyk, John Bell, Andrew Menzies-Gow

Greenhouse gas emissions associated with COPD care in the UK: Results from SHERLOCK CARBON
John Bell (Cambridge, United Kingdom), Bo Ding, Enrico De Nigris, John Haughney

Exploring the provision of supportive care for people with severe, potentially life limiting chronic obstructive pulmonary disease in Malaysia: a qualitative study
Su May Liew (Kuala Lumpur, Malaysia), Ee Ming Khoo, Hilary Pinnock, Sylvia McCarthy, Zee Nee Lim, Yong Kek Pang, Nik Sherina Hanafi, Norita Hussein, Ahmad Ihsan Abu Bakar, Yun Li Chan, Aziz Sheikh

Adherence to medication advice through a remote electronic asthma and COPD service
Niels Schipper (Groningen, Netherlands), Anna Jetske Baron, Bertine M.J. Flokstra-De Blok, Hans Wouters, Esther I. Metting, Ellen Van Heijst, Ronald A. Riemersma, Huib A.M. Kocks

Association between patient-reported outcomes and functional test outcomes in patients with COPD before undergoing home-based pulmonary rehabilitation.
Rui Vilarinho (Maia, Portugal), Rui Vilarinho, Cátia Esteves, Cátia Caneiras

Patient perspectives on systemic corticosteroids in asthma
Monica Fletcher (Cuckfield, United Kingdom), Tonya Winders, John Oppenheimer, Peter Howarth, Zeina Eid Antoun, Thys Van Der Molen, Mike Thomas

Laboratory assessment of drug delivery of Beclomethasone/Formoterol metered dose inhaler (MDI) with a new valved holding chamber (VHC) designed specifically for ‘on-the-go’ use.
Jason Suggett (London (ON), Canada), Mark Nagel, Cathy Doyle, Rubina Ali

Comparative effectiveness of two different doses of inhaled corticosteroid in triple therapy on exacerbations in patients with severe COPD: a real-world study
Charleston Pinto (Salvador (BA), Brazil), Ana Carla Vale, Priscila Lauton, Lindemberg Costa, Antônio Carlos Lemos

Characteristics of COPD patients prescribed ICS managed in general practice vs. secondary care
Osman Savran (Hvidovre, Denmark), Nina Godtfredsen, Torben Sørensen, Christian Jensen, Charlotte Suppli Ulrik

An electronic patient decision aid comparing as-needed budesonide-formoterol combination to regular use of inhaled corticosteroid (ICS) in mild asthma: a rapid-cycle design study
Myriam Gagne (Toronto, Canada), Jeffrey Lam Shin Cheung, Andrew Kouri, Louis-Philippe Boulet, J. Mark Fitzgerald, Allan Grill, Paul M. O'Byrne, Samir Gupta
PA3560  How to improve patient adherence to spacers: Results from a patient survey following introduction of a new spacer designed to help use ‘On the Go’
Jason Suggett (London (ON), Canada), Alison Ellery

PA3561  Acceptability of healthcare professionals to get vaccinated against COVID-19 two weeks before initiation of national vaccination in Greece
Athanasia Patakia (Thessaloniki, Greece), Seraphim Kotoulas, Emilia Stefanidou, Ioanna Grigoriou, Ioanna Tsiooprou, Paraskevi Argyropoulou

PA3562  Exploring the psychological impact of the COVID-19 pandemic on adults with asthma: A quantitative study
Kirstie McLatchey (Edinburgh, United Kingdom), Tracy Jackson, Emma Kinley, Amy Chan, Noelle Morgan, Jessica Rees, Hilary Pinnock

PA3563  Exploring the psychological impact of the COVID-19 pandemic on adults with asthma: a qualitative study
Tracy Jackson (Edinburgh (Edinburgh), United Kingdom), Kirstie McLatchey, Amy Chan, Noelle Morgan, Hilary Pinnock

PA3564  Daily spirometry in Covid-19 positive patients
Meenakshi Bhakare (Pune, Maharashtra, India), Rajkumar Nikalje, Reshma Patil, Urvi Shukla, Rupesh Bokade, Gajanan Sakhare, Shardul Joshi, Aditi Pais

PA3565  Anxiety and Depression Levels of Healthcare Workers During COVID-19 Pandemic
Muzaffer Onur Turan (Izmir, Turkey), Nilgün Yılmaz Demirci, Güntülü Ak, Şule Akgay, Ulku Aka Akturk, Semra Bilaçeroğlu, Funda Coşkun, Oğuz Köktürk, Arzu Mirici, Cengiz Özdemir, Nazan Şen, Ulkü Yılmaz

PA3566  Hyperventilation as a possible explanation for exercise intolerance in young athletes after mild COVID-19
Oxana Fesenko (Moscow, Russian Federation)

Pre-congress content
Session 396  13:15 - 14:15

E-poster: Home mechanical ventilation: organisation and outcomes
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): General respiratory patient care, Respiratory intensive care, Palliative care, Pulmonary function testing, Pulmonary rehabilitation, Physiology

Chairs: Carla Ribeiro (Vila Nova de Gaia, Portugal), Marieke L. Duiverman (Groningen, Netherlands)

PA3567  Chronic NIV in COPD: an exploration of pooled individual patient data
Tim Raveling (Groningen, Netherlands), Judith Vonk, Huib Kerstjens, Marieke Duiverman, Peter Wijkstra

PA3568  Impact of autonomy impairments and social conditions on quality of life in COPD-patients with long-term NIV
Sarah Bettina Schwarz (Köln, Germany), Tim Mathes, Daniel Sebastian Majorski, Maximilian Wollsching-Strobel, Doreen Kroppen, Friederike Sophie Magnet, Wolfram Windisch

PA3569  Rescue2-Monitor (R2M) study: an overview of screened patients.
Léo Grassion (Bordeaux, France), Sandrine Jaffré, Marjolaine Georges, Sandrine Pontier, Julien Soler, Patricia Peñacoba, Jean Michel Arnal, Christel Saint Raymond, Arnaud Prigent, Maria Alexandra Mineiro, Wojciech Trzepizur, Bebiana Conde, Claudio Rabec, Joao Winck, Pedro Anton, Jesus Gonzalez-Bermejo

PA3570  Who are the chronic pulmonary obstructive disease patients highly compliant to home mechanical ventilation?
Luís Lázaro Ferreira (Vila Nova de Gaia, Portugal), Nicole Fernandes, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

PA3571  Predictors of health-related quality of life in COPD-patients on long-term non-invasive ventilation
Maximilian Wollsching-Strobel (Köln, Germany), Sarah Schwarz, Pouya Heidari, Daniel Sebastian Majorski, Friederike Sophie Magnet, Tim Mathes, Wolfram Windisch

PA3572  Defining successful NIV setup: data from a real-life cohort
Grégoire Jolly (Rouen, France), Emeline Fresnel, Christian Caillard, Zouhair Gharsallaoui, Antoine Cuvelier, Maxime Patout

PA3573  Is there a pattern of compliance to home mechanical ventilation depending on disease?
Luís Lázaro Ferreira (Vila Nova de Gaia, Portugal), Nicole Fernandes, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeira
The Portuguese S3-Non-invasive Ventilation (S3-NIV) questionnaire for home mechanically ventilated patients

Carla Ribeiro (Vila Nova de Gaia, Portugal), Sara Conde, Pedro Oliveira, Carla Nogueira, Daniela Ferreira, Dan Adler, Wolfram Windisch, Rui Nunes

Responsiveness of the S3-NIV questionnaire to severe episode of respiratory failure

Ivan Guerreiro (Geneva, Switzerland), Aline Schmit, Esther Irene Schwarz, Paola Marina Soccal, Jean-Paul Janssens, Dan Adler

Patients’ perspective and lung function correlation: the importance of questionnaires in home mechanical ventilation

Ana Da Cunha Fonseca (Vila Nova de Gaia, Portugal), Marta Sá Marques, Sara Conde, Pedro Oliveira, Carla Nogueira, Daniela Ferreira, Dan Adler, Wolfram Windisch, Rui Nunes, Carla Ribeiro

An outpatient approach to home mechanical ventilation follow-up

Luis Lázaro Ferreira (Vila Nova de Gaia, Portugal), Nicole Fernandes, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

In what ways are a long term ventilation service able to support the care of adults with learning disability?

Deirdre McCourt (NEWCASTLE UPON TYNE, United Kingdom), Thomas Fretwell, Hilary Tedd, Ben Messer, Thomas Doris, Alison Armstrong

The effect of CPAP in asthma patients with SAHS

Gorane Iturricastillo Gutierrez (Madrid, Spain), Elisa Martínez, José María Eiros, Pedro Landete, Elena Ávalos, Carolina Cisneros, Julio Ancochea

Treatment of early undiagnosed airflow obstruction in patients of OSA on CPAP improves sleep quality and symptoms

Tarang Kulkarni (Mumbai (Maharashtra), India), Sovan Kanti Chakraborty, Raja Dhar, Milind Sovani

Changes in respiratory status after specialized pulmonary rehabilitation in patients with high cervical spinal cord injury

Yewon Lee (Republic of Korea), Jihyun Park, Jang Woo Lee, Han Eol Cho, Won Ah Choi, Seong-Woong Kang

Predictors of the need for NIV during percutaneous endoscopic gastrostomy insertion in patients with MND

Hussain Ebrahim (London, United Kingdom), Shaun Thein, Ancy Fernandez, Anna Mowat, Abdisamad Ali, Naveed Mustafa, Zhi Cheng Lim

Tracheostomy in ALS. Survival and related factors

Cristina Gomez Rebollo (Córdoba, Spain), Maria Melgar Herrero, Estefanía Mira Padilla, Cristina Muñoz Corroto, Pablo García Lovera, Natalia Pascual Martínez

Venous thromboembolic (VTE) in patients with ALS: an incidence study

Estefanía Mira Padilla (Córdoba, Spain), Maria Melgar Herrero, Cristina Gomez Rebollo, Pablo García Lovera, Cristina Muñoz Corroto, Natalia Pascual Martínez

Respiratory disorders in patients hospitalized for bariatric surgery

Anton Bebekh (St. Petersburg, Russian Federation), Natalia Kucherenko, Alexander Gorelov, Irina Umarova

Clinical practice of non-invasive ventilation for COPD exacerbations

Judith Elshof (Groningen, Netherlands), Anouschka Van Der Pouw, Els Fikkers, Petra Vos, Marieke Duiverman

Pre-congress content

Session 397

13:15 - 14:15

E-poster: Pulmonary hypertension in the COVID-19 pandemic and beyond

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 14 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

Tag(s): COVID

Chairs: Pilar Escribano-Subias (Madrid, Spain), Olivier Sitbon (Le Kremlin-Bicêtre, France)

Controversies over the impact of the COVID-19 pandemic on patients with Pulmonary Arterial Hypertension

Nicolea Sorina Bertici (Timisoara (Timis), Romania), Larisa Dobrescu, Liudmila Pislaru, Iosif Marincu
PA3588 Impact of Sars-CoV-2-Pandemic on mental disorders and quality of life in patients with pulmonary arterial hypertension
Da-Hee Park (Hannover, Germany), Jan Fuge, Tanja Meltendorf, Kai G. Kahl, Manuel J. Richter, Henning Gall, Hossein A. Ghofrani, Jan C. Kamp, Marius M. Hoeper, Karen M. Olsson

PA3589 Impact of 3-months COVID-19 lockdown on exercise capacity in stable pulmonary arterial hypertension
Claudia Baratto (Milano, Italy), Sergio Caravita, Céline Dewachter, Gianfranco Parati, Jean-Luc Vachiéry

PA3590 The lived experiences of people shielding with pulmonary hypertension during the first wave of the COVID-19 pandemic
Iain Armstrong (, United Kingdom), Iain Armstrong, Catherine Billings, Shaun Clayton, David G Kiely, J Paul Sephton, John Smith, Mary Ferguson

Irfan Qamar (Horley, United Kingdom), James May, Asad Anwar, Nordita Bascon, Agnieszka Crerar-Gilbert, Brendan Madden

PA3592 Predictive value of CT pulmonary angiography to assess surgical accessibility for pulmonary endarterectomy in chronic thromboembolic pulmonary hypertension (CTEPH) patients
Isabelle Opitz (Zurich, Switzerland), Thomas Frauenfelder, Micheal Mcinnis, Matthias Eberhard, Marc De Perrot, Silvia Ulrich, Ilhan Inci

PA3593 Type of anticoagulant therapy as a risk factor for the severity of chronic thromboembolic pulmonary hypertension
Alessandar Bokan (Loewenstein, Germany), Gerd Staehehl, Axel Tobias Kempa, Anna Volk

PA3594 The changing epidemiology of pulmonary hypertension: disease characteristics and clinical outcome over two decades of the swiss registry
Stéphanie Saxon (Zürich, Switzerland), Paula Appenzeller, Mona Lichtblau, Charlotte Berlier, John-David Aubert, Andrea Azzola, Jean-Marc Fellrath, Thomas Geiser, Susanne Pohle, Isabelle Opitz, Markus Schwerzmann, Hans Stricker, Michael Tamms, Silvia Ulrich

PA3595 Geographical barriers in access to pulmonary arterial hypertension care in Brazilian public health system
Charleston Pinto (Salvador (BA), Brazil), Thiago Rocha, Paloma Fiuza, Antônio Carlos Moreira Lemos

PA3596 Patterns of pulmonary hypertension in Egyptian patients with COPD: A retrospective analysis
Amany Fathy Elbehairy (Alexandria, Egypt), Muhammad Ehab Atta, Yehia M. Khalil, Tamer S. Morsi

PA3597 Spectrum of interstitial lung diseases (ILDs) and associated prevalence of pulmonary hypertension
Surya Kant (Lucknow (Uttar Pradesh), India), Richa Tyagi, Anupam Wakhlu, Anit Panhar, Akshayaya Pradhan, Riddhi Jaiswal

PA3598 Whipple's disease: a rare and life-threatening cause of pulmonary hypertension
Ismail Güzellkös (Ankara, Turkey), Beste Örszezen, Dilber Ademhan Tural, Birce Sunman, Halime Nayır Büyüksaçın, Ebru Aypar, Tefvik Karagöz, Nagehan Emiraliğö, Ebru Yağcı, Deniz Doğru, Uğur Özçelik, Nural Kiper

PA3599 Characteristics and prognosis of autoimmune antibody-positive patients of idiopathic pulmonary arterial hypertension
Masashi Sakayori (Chiba, Japan), Ayumi Sekine, Nobuhiro Tanabe, Akira Naito, Takayuki Jujo, Toshihiko Sugiiura, Ayako Shigeta, Seiichiro Sakao, Koichiro Tatsumi

PA3600 Distance assessment of the risk of pulmonary hypertension associated with connective tissue diseases: do biomarkers help?
Alexander Volkov (MOSCOW, Russian Federation), Olga Alexeeva, Ekaterina Nikolaeva

PA3601 Risk assessment in Pulmonary Arterial Hypertension (PAH) based on the Simplified French Model: A single centre experience
Umar Falak (Darlington (Co Durham), United Kingdom), Anish Lekhak, Muhammad Waseem Athar, Rachel Crackett, James Lordan, Guy Mccowan, Andrew Fisher, Arun Nair

PA3602 Abnormal right ventricular to pulmonary artery coupling in sickle cell disease
Tatiana Ballez (Bruxelles, Belgium), Flore Samantha Benghiti, Céline Dewachter, Ana Roussoulières, Jean-Luc Vachiéry

PA3603 Impact of cyanosis on ventilatory kinetics during stairclimbing in pulmonary arterial hypertension
Chinthaka Samaranayake (London, United Kingdom), Yingmei Luo, Karina Siwers, Christopher Warren, Stuart Craig, Carl Harries, Laura Price, Aleksander Kempny, Michael Gatzoulis, Konstantinos Dimopoulos, Nicholas Hopkinson, S John Wort, James Hull, Colm Mccabe
### PA3605 Effects of a daytrip to high altitude (2500m) in pulmonary hypertension.
Simon Raphael Schneider (Zürich, Switzerland), Laura C Mayer, Mona Lichtblau, Charlotte Berlier, Esther I Schwarz, Stéphanie Saxer, Lu Tan, Konrad E Bloch, Silvia Ulrich

### PA3606 Late Breaking Abstract - COVID-19 in patients with pulmonary hypertension: a national prospective cohort study
David Montani (Le Kremlin-Bicêtre, France), Marie-Caroline Certain, Laurent Savale, Xavier Jais, Marc Humbert, Olivier Sitbon, - And The French P.H Network Pulmotension Investigators

### Pre-congress content Session 398 13:15 - 14:15

**E-poster: Molecular pathology and cell biology of pulmonary diseases**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** Cell and molecular biology, General respiratory patient care, Pulmonary function testing, Public health

**Chairs:** Simon D. Pouwels (Groningen, Netherlands), Niki Ubags (Epalinges, Switzerland)

#### PA3607 Alveolar–capillary barrier alteration due to systemic sclerosis: an experimental study.
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Liubomyr Zaiats, Roman Yatsyshyn

#### PA3608 Submicroscopic changes of of hemomicrocirculatory bed of the lungs in long term experimental streptozotocin-induced diabetes mellitus
Yuliya Fedorenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaiats, Roman Yatsyshyn

#### PA3609 LSC - 2021 - Submicroscopic changes of type I alveolocytes in the early stages of experimental diabetes mellitus
Yuliya Fedorenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaiats [pathfisiology@ifnmu.edu.ua / Ivano-Frankivsk National Medical University, Ivano-Frankivsk]

#### PA3610 Prolonged mechanical ventilation causes excessive worsening in gas exchange in a model of type two diabetes
Almos István Schranc (Szeged, Hungary), Gergely H. Fodor, Roberta Südy, József Tolnai, Barna Babik, Ferenc Peták

#### PA3611 Adenosine-regulated mechanisms in the pathogenesis of ventilation disorders in patients with pulmonary tuberculosis
Larisa Kryukhchina (St. Petersburg, Russian Federation), Marina Dyakova, Natalia Serebrayana, Dilyara Esmedlyaeva, Piotr Yablonski

#### PA3612 Smoking induces activation of the complement system in the small airways in a sex-specific manner
Spela Kokelj (Göteborg, Sweden), Jörgen Östling, Karin Fromell, Kristina Nilsson Ek Dahl, Henric K. Olsson, Anna-Carin Olin

#### PA3613 Pro-fibrotic phenotype of human Hermansky-Pudlak syndrome lung fibroblasts
Bernadette Gochuico (Bethesda, United States of America), Jennifer Wang, Lily Smith, Jasmina Abdalla, Meixing Zuo, Tesiya Franklin, Shachar Abudi, Resat Cinlar, May Malidcan, Chen Han

#### PA3614 LSC - 2021 - Mitochondrial DNA stress activates MHC class I antigen presentation and CD8+ T-cell immunity: implications for pulmonary fibrosis
Xinyuan Wang (Munich, Germany), Thomas Meul [thomas.meul@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), University Hospital, Ludwig-Maximilians University, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich], Ilona Elisabeth Kammerl [ilona.kammerl@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), University Hospital, Ludwig-Maximilians University, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich], Yuyin Wang [yuyin.wang@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), University Hospital, Ludwig-Maximilians University, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich], Herbert B. Schiller [herbert.schiller@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), University Hospital, Ludwig-Maximilians University, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich], Silke Meiners [silke.meiners@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), University Hospital, Ludwig-Maximilians University, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich]

#### PA3615 Tissue lesions in rat lungs caused by Crotalus durissus collilineatus venom
João Pedro Afonso (Anápolis, Brazil), Luis Vicente Franco De Oliveira, Marcos Mota Da Silva, Isabella Alves Costa, Maria Eduarda Moreira Lino, Leandro Norberto Da Silva Junior, Rodolfo De Paula Vieira

#### PA3616 The filamentous Pseudomonas phage Pf disrupts airway basal cell proliferation
Elizabeth Burgener (Palo Alto, United States of America), Laura Rojas Hernandez, Paul Bollyky, Carlos Milla
Lipopolysaccharide (LPS) treatment enhances the regenerative capacity of mesenchymal stromal cells-derived exosomes
Aina Areny Balagueró (Sabadell, Spain), Marta Camprubi Rimblas, Raquel Guillamat Prats, Lluis Blanch, Anna Roig, Daniel Closa, Antonio Artigas

Immunological and transcriptional characterisation of SARS-CoV infected mouse lungs
Manuel Salzmann (Vienna, Austria), Patrick Haider, Roberto Plasenzotti, Johann Wojta, Philipp Hohenstiner

Tight junction molecules are unresponsive in the epithelium of COPD patients during RV infection
Rassin Lababidi (Oxford, United Kingdom), Jennifer Cane, Mona Bafadhel

Angiogenic T cells in interstitial lung diseases

Eosinophils and COVID-19 prognosis
Mariem Ferchichi (Tunis, Tunisia), Ikbel Khalfallah, Sabrine Louhaichi, Nouha Boubaker, Jamel Ammar, Basma Hamdi, Agnes Hamzaoui

LSC - 2021 - Club cell functions as a Wnt-responsive progenitor for tissue repair in COPD
Yan Hu (Aurora, United States of America), Chiara Ciminieri (c.ciminieri@rug.nl / Department of Molecular Pharmacology, Groningen Research Institute for Asthma and COPD (GRIAC), University of Groningen, Groningen), Reinoud Gosens (r.gosens@rug.nl / Department of Molecular Pharmacology, Groningen Research Institute for Asthma and COPD (GRIAC), University of Groningen, Groningen), Christopher Evans (christopher.evans@cuanschutz.edu / Division of Pulmonary Sciences and Critical Care Medicine, School of Medicine, University of Colorado, Aurora), Melanie Koenigshoff (koenigshoffm@upmc.edu / Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh)

Aberrant endothelial CXCL signaling in COPD
Neelhariika Kothapalli (Overland Park, United States of America), John E. Mcdonough, Micha Sam Brickman Raredon, Taylor S. Adams, Jonas C. Schupp, Laura E. Niklason, Naftali Kaminski, Ivan O. Rosas, Maor Sauler

LSC - 2021 - Investigating the role of vitamin A intake and retinoic acid signalling in lung homeostasis and repair - A multidisciplinary approach
Roisin Mongey (London, United Kingdom), Sally Yunsun Kim (sally.kim@imperial.ac.uk / Imperial College London, London), Diana Van Der Phiut (d.van-der-phiut@imperial.ac.uk / Imperial College London, London), Cosetta Minelli (cosetta.minelli@imperial.ac.uk / Imperial College London, London), Matthew Hind (m.hind@rbht.nhs.uk / Imperial College London, London)

Association between alpha1 antitrypsin (AAT) circulating polymers (CP) and lung and liver disease in patients with AAT deficiency (AATD).
Alexa Nuñez (Barcelona, Spain), Irene Belmonte, Elena Miranda, Eduardo Loeb, Miriam Barrecheguren, Georgina Farago, Esther Rodriguez, Francisco Rodriguez-Frias, Marc Miravitlles, Cristina Esquinas

Pre-congress content
Session 399
13:15 - 14:15

E-poster: Primary care diagnosis and multimorbidities

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

Method(s): Epidemiology, General respiratory patient care, Pulmonary rehabilitation, Public health, Pulmonary function testing, Palliative care

Tag(s): Digital health

Chairs: Noel Baxter (Glasgow, United Kingdom), Rachel Jordan (Birmingham (West Midlands), United Kingdom)

Bronchodilator reversibility (BDR) - should we measure it in adults with symptoms but without obstructed spirometry?
Miriam Bennett (manchester, United Kingdom), Sarah Drake, Laura Healy, Rhys Tudge, Lesley Lowe, Lisa Willmore, Lisa Willmore, Joanne Mitchell, Gina Kerry, Clare Murray, Stephen Fowler, Angela Simpson

Accuracy of different screening strategies for undiagnosed COPD in primary care in China: a Breathe Well study
Zihan Pan (Beijing, China), Andrew Dickens, Chunhua Chi, Xia Kong, Alexandra Enocson, Brendan G Cooper, Peymane Adab, Kar Keung Cheng, Alice Sitch, Sue Jowett, Rachel E Jordan
<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3628</td>
<td>Need for patient’s education: asthmatics perception of asthma as a lung disease</td>
<td>Daniela Ca valo Blanco (Porto Alegre (RS), Brazil), Luciana Silva, Raquel Ribeiro, Ana Paula Tubiana, Eduarda Jaeger, Carolina Ar an chipie, Laura Fillmann, Jamile Vieira</td>
</tr>
<tr>
<td>PA3629</td>
<td>Effect of implementing a web-based application for spirometry quality control in a public health system. A 10-year prospective study, including the covid-19 pandemic.</td>
<td>Joseba Andia Iturrate (Barakaldo, Spain), Elena Garay Llorente, Alejandro Rezola Carasusan, Edurne Echevarria Guerrero, Elena Lopez Santamaria, Josep Benavent, Nicolas Francisco Gonzalez Lopez, Saioa Artaza Aspiazu, Juan Bautista Galdiz Iturri, Nuria Marina Malanda</td>
</tr>
<tr>
<td>PA3630</td>
<td>Can AI help in detecting respiratory diseases with incomplete lung function data?</td>
<td>Nilakash Das (Leuven, Belgium), Armin Ha ll i ovc, Julie Maes, Kevin Ray, Marko Topalovic</td>
</tr>
<tr>
<td>PA3631</td>
<td>Comparative predictive assessment of lung health status in young people</td>
<td>Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Egor Dmitrievich Mokin</td>
</tr>
<tr>
<td>PA3632</td>
<td>Patient’s views on a computer decision support for diagnosing asthma: a qualitative study.</td>
<td>Victoria Murray (Edinburgh, United Kingdom), Eddie Donaghy, Hilary Pinnock, Luke Daines</td>
</tr>
<tr>
<td>PA3633</td>
<td>Clinicians views on developing an asthma CDSS for primary care</td>
<td>Eddie Donaghy (Edinburgh, United Kingdom), Victoria Murray, Hilary Pinnock, Luke Daines</td>
</tr>
<tr>
<td>PA3634</td>
<td>Systematic review of clinical decision support systems for breathlessness in outpatient settings</td>
<td>Anthony Paulo Sunjaya (Sydney, Australia), Sameera Ansari, Christine Jenkins</td>
</tr>
<tr>
<td>PA3635</td>
<td>Perceptions and practices of primary care physicians in rural India for diagnosis and management of asthma and COPD: a questionnaire survey</td>
<td>Dhiraj Agarwal (Pune (Maharashtra), India), Hilary Pinnock, Pam Smith, Sanjay Juvekar</td>
</tr>
<tr>
<td>PA3636</td>
<td>Overdiagnosis of COPD and asthma among elderly with chronic dyspnea</td>
<td>Deniz Dogan Mülazimoglu (Ankara, Turkey), Oya Kayacan</td>
</tr>
<tr>
<td>PA3637</td>
<td>The impact of pulmonary tuberculosis on the quality of life of Colombian patients and their families. A case-control study</td>
<td>Vicente Benavides Córdoba (Cali, Colombia), David Garces, Mariana Cañon, Yurany Benavides, Marcela Beltran, Jhonatan Betancourt-Peña</td>
</tr>
<tr>
<td>PA3638</td>
<td>Exploration of the feasibility to combine patients with COPD and chronic heart failure in self management groups with focus on exercise self-efficacy.</td>
<td>Maa i ke Giezeman ( Karlstad, Sweden), Mikael Hasselgren, Josefin Sundh, Ann-Britt Zakr is kron, Kerst i Theander</td>
</tr>
<tr>
<td>PA3639</td>
<td>ACCURACY OF COPD SCREENING STRATEGIES AMONG HYPERTENSIVE PATIENTS IN BRAZIL: A BREATHE WELL STUDY</td>
<td>Rachel Jordan (Birmingham (West Midlands), United Kingdom), SONIA MARTINS, Andrew Dickens, William Salibe-Filho, Luis Sousa, Aldo Albuquerque-Neto, Peymane Adab, Alexandra Enocson, Alice Sitch, Rafael Stelmach</td>
</tr>
<tr>
<td>PA3640</td>
<td>Prevalence of metabolic syndrome (MetS) in stable Chronic Obstructive Pulmonary Disease (COPD) patients and status of c-reactive protein among COPD patients with and without MetS visiting Tribhuvan University Teaching Hospital, Nepal</td>
<td>Santosh Baniya (kathmandu, Nepal)</td>
</tr>
<tr>
<td>PA3641</td>
<td>Chronic Obstructive Pulmonary Disease (COPD) as co-morbidity in patients with Obstructive Sleep Apnea Syndrome (OSAS): Results of a retrospective study in the French overseas department of Reunion island.</td>
<td>Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan, J.François Vellin, François Rubin, Asma Omarjee</td>
</tr>
<tr>
<td>PA3642</td>
<td>Comparative analysis of central aortic blood pressure, pulse wave velocity, and other indicators of arterial stiffness in patients with obstructive pulmonary diseases in Indian population</td>
<td>Jyoti Bajpai (Lucknow (Uttar Pradesh), India), Surya Kant, Akshiyaya Pradhan, Ajay Verma, Darshan Bajaj</td>
</tr>
<tr>
<td>PA3643</td>
<td>Cardiac C o m p l e x i t i e s i n C O P D Patients : A Cross Sectional Study</td>
<td>UTKARSH KHATTRI (Meerut, India), Lalit Singh, Rajeev Tandon, Geeta Karki, Nida Choudhry</td>
</tr>
<tr>
<td>PA3644</td>
<td>Association of combined anxiety and depression with quality of life, dyspnea, exercise tolerance in COPD patients</td>
<td>Abebaw Mengistu Yohannes (Azusa, United States of America), Richard Casaburi, Sheila Dryden, Nicola Alexander Hanania</td>
</tr>
<tr>
<td>PA3645</td>
<td>Systematic quality assessment of patient education materials and decision aids for breathlessness</td>
<td>Anthony Paulo Sunjaya (Sydney, Australia), Lexia Bao, Allison Martin, Christine Jenkins</td>
</tr>
</tbody>
</table>
### Pre-congress content

#### Session 400

**13:15 - 14:15**

**E-poster: COVID - 19 risk predictions**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s):** COVID

**Chairs:** Eva Van Braeckel ( Ghent, Belgium), Leif Erik Sander ( Berlin, Germany)

<table>
<thead>
<tr>
<th>ERS ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3646</td>
<td>Correlation between chest CT severity scores and clinical and biochemical parameters of COVID-19 pneumonia.</td>
<td>Berna Komürçüoğlu (Izmir, Turkey), Batum Ozgur, Salik Bilge, Susam Seher, Karadeniz Gulistan</td>
</tr>
<tr>
<td>PA3647</td>
<td>Liver dysfunction on admission worsen clinical manifestations and outcomes of Coronavirus Disease 2019</td>
<td>Fang-Ying Lu (Shanghai, China), Rong Chen, Kandi Xu, Jie Huang, Dexiong Yang, Tao Bai, Yun Feng, Yi Guo</td>
</tr>
<tr>
<td>PA3649</td>
<td>Association between age, deprivation and ethnicity with COVID-19 hospitalisation and mortality</td>
<td>Danyal Jajbhay (London, United Kingdom), Yee Ean Ong, Jessica Gates, Martina Cusinato, Emma Lombard, James May, Adrian Draper</td>
</tr>
<tr>
<td>PA3650</td>
<td>COVID-19 pneumonia and clinical follow-up: results of a prospective cohort</td>
<td>Eva Allín Vallejos (Ciudad Autóctona Buenos Aires, Argentina), Sabrina Resnik, Florencia Santtia, Laura Barria, Federico Felder, Mariano Sosa, Facundo Nogueira, Juan Englighthouse, Ana Putreula, Carlos Luna</td>
</tr>
<tr>
<td>PA3652</td>
<td>Predictive factors of response to systemic corticosteroids in patients hospitalized with COVID-19 pneumoniae</td>
<td>Iria Veiga Tejedor (Logroño (La Rioja), Spain), Indhira Guzmán-Peralta, Diego Pérez Ortiz, Luis Pérez De Llanos, Irene Martin Robles, Nagore Blanco Cid, David Dacal Rivas, Rafael Golpe Gómez</td>
</tr>
<tr>
<td>PA3653</td>
<td>Association between type of antihyperglycemic therapy and COVID-19 outcomes in patients with type 2 DM</td>
<td>Michael Burok (Moscow, Russian Federation), Larisa Akulkina, Anastasia Chepalkina, Victoria Sholomova, Sergey Moiseev, Alisa Yanakaeva, Denis Konovalov</td>
</tr>
<tr>
<td>PA3654</td>
<td>Severity, risk of progression or thrombosis – what does the D-dimer really reflect in COVID-19 pneumonia?</td>
<td>Maria Krykhthina (Dniepropetrovsk, Ukraine), Kseniya Bielosludseva, Tetyana Pertseva, Lyudmila Konopkina</td>
</tr>
<tr>
<td>PA3655</td>
<td>Study of likelihood of infection with Covid-19 among hospital staff.</td>
<td>Jayalakshmi T. Kutty (Mumbai (Maharashtra), India), Bhumi Madhav, C G Prakash, Dipti Dhanwante, Narendra Patil, Dhanaji Revande</td>
</tr>
<tr>
<td>PA3656</td>
<td>Severity or risk of progression: what does serum ferritin really reflect in COVID-19 pneumonia?</td>
<td>Kseniya Bielosludseva (Dniepropetrovsk, Ukraine), Olena Myronenko, Lyudmila Konopkina, Tetyana Pertseva, Oksana Plekanova, Maria Krykhthina</td>
</tr>
<tr>
<td>PA3657</td>
<td>Input of comorbidities to hospitalization of patients with COVID-19.</td>
<td>Irina Lizinefeld (Moscow, Russian Federation), Natalia Pshenichnaya, Lyubov Polonina, Grigorii Zhuravlev</td>
</tr>
<tr>
<td>PA3658</td>
<td>Evaluation of the relationship between laboratory parameters and pulmonary function tests in COVID-19 patients</td>
<td>Buğra Kerget (Erzurum, Turkey), Alperen Aksalak, Ferhan Kerget</td>
</tr>
<tr>
<td>PA3659</td>
<td>Early profiling of low-risk SARS-CoV-2 pneumonia for ward allocation</td>
<td>Raúl Méndez (Valencia, Spain), Paula González-Jiménez, Ana Latorre, Leyre Serrano, Luis Alberto Ruiz, Rafael Zalacaín, Pedro Pablo España, Ane Urrungo, Catia Cillóniz, Antoni Torres, Rosario Menéndez</td>
</tr>
</tbody>
</table>
Incidence and risk factors for structural lung disease following SARS-CoV-2 infection
Maximilian Gysan (Wien, Austria), Antje Lehmann, Dominik Bernitzky, Helmut Prosch, Marco Idzko, Daniel Gompelmann

Mortality predictions of CURB-65, GPS and CALL scores in hospitalized patients with COVID-19
Gülistan Karadeniz (Izmir, Turkey), Fatnunur Kazankaya, Melih Buyukgiiriin, Mine Gayaf, Filiz Guldaval, Fatma Demirci Ucsular, Ceyda Anar, Güleri Polat, Özgür Batum, Aysu Ayranç, Enver Yalnız

Usefulness of CURB-65, PSI and MuLBSTA in predicting COVID-19 mortality
Luca Novelli (Bergamo, Italy), Carlo Preti, Roberta Biza, Arianna Ghirardi, Caterina Conti, Chiara Galimberti, Lorenzo Della Bella, Irdi Memaj, Ivan Oppedisano, Federico Zanardi, Fabiano Di Marco, Roberto Cosentini

Covid-19 and gender: lower rate, but same mortality of severe disease in women
Luca Novelli (Bergamo, Italy), Federico Raimondi, Arianna Ghirardi, Filippo Maria Russo, Dario Pellegrini, Roberta Civiletti, Lisa Giuliani, Roberta Biza, Chiara Allegri, Marisa Anelli, Roberta Trappaso, Mariangela Amoruso, Lucia Gandini, Sofia Comandini, Caterina Conti, Claudia Maria Sanfilippo, Gianluca Imeri, Gianmario Marchesi, Ferdinando Luca Lorini, Fabiano Di Marco

Predictive factors of severe outcome in patients with covid-19 pneumonia
Nozha Ben Salah (Tunis, Tunisia), Belkhir Donia, Mariem Maalej, Hana Blibech, Houda Snene, Aymen Jbali, Israa Wadhane, Line Kaabi, Ahmed Laater, Nadia Mehiri, Bechir Louzir

Carolina Andrea Urbina Carrera (Valladolid, Spain), Raúl López-Izquierdo, Tomás Ruiz Albi, Jesús Francisco Bermejo-Martín, Raquel Almansa, Fátima Villaflaé Sanz, Lucia Arroyo Olmedo, Susana Sánchez Ramón, Francisco Martín-Rodriguez, Fernando Moreno Torrero, Daniel Alvarez, Félix Del Campo Matía

Pre-congress content
Session 401 13:15 - 14:15

E-poster: COVID - 19 treatments
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care
Method(s): General respiratory patient care Public health Epidemiology Respiratory intensive care Endoscopy and interventional pulmonology Imaging Pulmonary rehabilitation Cell and molecular biology
Tag(s): COVID

Chairs: James D. Chalmers (Dundee (Angus), United Kingdom), Megan Crichton (Dundee (Angus), United Kingdom)

Role of ivermectin in hospitalized patients with mild to moderate COVID-19.
Syed Muhammad Zubair (Karachi, Pakistan), Aqsa Zahid, Talha Shahzad, Ali Bin Sarwar Zubairi, Javaid Ahmed Khan, Muhammad Irfan

Thymalin as an immunomodulation option in severe COVID-19
Sergey Lukyanov (Chita (Zabaykalsky Krai), Russian Federation), Konstantine Shapovalov, Pavel Tereshkov, Yuri Smolyakov, Ayagma Vanchikova, Boris Kuznik

Azithromycin and Hydroxychloroquine in hospitalized patients with confirmed SARS-CoV-2 infection - a randomized placebo-controlled trial (ProPAC-COVID Trial)

N-acetylcysteine (NAC) in the complex treatment of COVID-associated pneumonia
Viliya Gaynitschina (Ufa (Republic of Bashkortostan), Russian Federation), Sergey Avdeev, Zamira Merzheoeva, Galia Nuralieva

N-acetylcysteine (NAC) in the complex treatment of COVID-associated pneumonia
Viliya Gaynitschina (Ufa (Republic of Bashkortostan), Russian Federation), Sergey Avdeev, Zamira Merzheoeva, Galia Nuralieva

Self-proning in COVID-19 patients on low-flow oxygen therapy. A cluster randomised controlled trial
Aileen Kharat (Genève, Switzerland), Elise Dupuis-Lozéron, Chloé Cantero, Christophe Marti, Olivier Grosgeurin, Sanaz Lolachi, Frédéric Ladot, Jérôme Plojoux, Jean-Paul Janssens, Paola Soccal, Dan Adler

Addition of convalescent plasma to systemic corticosteroids in early phase of COVID-19
AYCAN YUKSEL (Ankara, Turkey), Ceren Ilgar, Ayşay Eylul Ağaoglu, Evrnim Eylem Akpınar
Pre-congress content

**Session 402**

**13:15 - 14:15**

**E-poster: Advanced in vitro models for drug discovery**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Anne M. van der Does (Leiden, Netherlands)

**Changes in human airway cells transcriptome during epithelial wound repair**

Beata Narożna (Poznań, Poland), Wojciech Langwiński, Zuzanna Stachowiak, Ewelina Bukowska-Olech, Aleksandra Szczepankiewicz
PA3686 Role of stromal cells during human iPSC differentiation into bronchial epithelium
Amel Nasri (Montpellier, France), Florent Foisset, Engi Ahmed, Isabelle Vachier, Said Assou, Arnaud Bourdin, John De Vos

PA3687 Generating senescent airway epithelial cell populations using low-concentration doxorubicin or etoposide
Shyreem Hassibi (London, United Kingdom), Jonathan Baker, Peter Barnes, Louise Donnelly

PA3688 Chalcones: isoliquiritigenin and flavokawain A reduce asthma-related fibroblast to myofibroblast transition, intensified by TGF-ß1
Dawid Wnuk (Kraków, Poland), Alicja Ślusarczyk, Milenia Paw, Justyna Drukała, Marta Michalik

PA3689 Mycobacterium tuberculosis modulates mitochondrial function in human macrophages
Claudio Bussi (London, United Kingdom), Mariana Silva Dos Santos, Elliott M. Bernard, Pierre B. Santucci, James I. Macrae, Maximiliano G. Gutierrez

PA3690 Commensal lung microbiota members inhibit activation of the pro-inflammatory NF-κB pathway in three-dimensional lung epithelial cells
Ellen Goeteyn (Sint-Amandsberg, Belgium), Charlotte Rigauts, Lucia Grassi, Gina Van Damme, Eva Van Braeckel, Tom Coene, Aurélie Crabbé

PA3691 Establishing ex vivo infection to influenza A virus in mouse precision cut lung slices
Julia Chitty (Berwick, Australia), Lovisa Dousha, Philip Bardin, Jane Bourke, Belinda Thomas

PA3692 In vitro culture of basal-like cells from fibrotic peripheral lung tissue
Katrin Esther Hostettler (Basel, Switzerland), Sabrina Blumer, Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Michael Tamm

PA3693 Multidimensional scaling in Euclidean space of cytokine responses to document hyperinflammation in cystic fibrosis cells
Nurlan Dauletbaev (Marburg, Germany), Wided Akik, Anne-Christin Hauschild, Thomas Damm, Assel Suleimenova, Aínas Oshibayeva, Zhanne Kalmatayeva, Claus Vogelmeier, Larry Lands

PA3694 Image analysis of tissue macrophages to confirm differential phagocytosis between groups by microscopy and automated bacterial quantification
Riccardo Wysoczanski (Cambridge, United Kingdom), Jonathan Baker, Peter Fenwick, Chris Dunby, Paul French, Peter Barnes, Louise Donnelly

PA3695 LSC - 2021 - Role of mitochondrial function of lung mesenchymal stem cells in idiopathic pulmonary fibrosis
Joan Truyols (Inca, Spain), Aina Martin (aina.martin89@gmail.com / Inflammation, Repair and Cancer in Respiratory Diseases, Balearic Islands Health Research Institute (IdISBa),Palma), Andreas Jahn (a.jahn@animalstemcare.com / Inflammation, Repair and Cancer in Respiratory Diseases, Balearic Islands Health Research Institute (IdISBa),Palma), Carlos Rio (crio.ssib@gmail.com / Inflammation, Repair and Cancer in Respiratory Diseases, Balearic Islands Health Research Institute (IdISBa),Palma), Ernest Sala (ernest.sala@ssib.es / Inflammation, Repair and Cancer in Respiratory Diseases, Balearic Islands Health Research Institute (IdISBa),Palma), Josep Mercader (josep.mercader@uib.es / Inflammation, Repair and Cancer in Respiratory Diseases, Balearic Islands Health Research Institute (IdISBa); Department of Fundamental Biology and Health Sciences, University of the Balearic Islands; Foners Veterinary Medicine And Innovation SLP,Palma)

PA3696 Differential effects of Nintedanib and SB525334 in primary human cell-based assays of lungfibrosis
Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Martina Bonatti, Britt Sothewes, Jeroen Degroot, Gino Villetti, Maurizio Civelli, Marcello Trevisani, Maria Gloria Pittelli

PA3697 Neutrophil activity assessed using a novel serological marker of human neutrophil elastase degraded calprotectin is elevated in patients with COPD or IPF
Annika Hummersgaard Hansen (Herlev, Denmark), Joachim Hog Mortensen, Sarah Rank Ronnow, Morten Karsdal, Anne-Christine Bay-Jensen, Diana Julie Leeming, Jannie Marie Bülow Sand

PA3698 Murine precision cut lung slices as a novel 3D-model for studying endocytic pathways in the lung
Vitalii Kryvenko (Giessen, Germany), Vitalii Kryvenko, Andrés Alberro Brage, Werner Seeger, Susanne Herold, Christos Samakovlis, István Vadász

PA3699 Impact of cellular composition on SARS-CoV-2 infection biology and pathogenesis in primary human airway epithelial cells
Ying Wang (Leiden, Netherlands), Melissa Thaler, Dennis K. Ninaber, Anne M. Van Der Does, Natacha S. Ogando, Hendrik Beckert, Christian Taube, Clarisse Salgado Benvindo Da Silva, Peter J. Bredenbeek, Pieter S. Hiemstra, Martijn J. Van Hemert

PA3700 Characterization of well-differentiated bronchial epithelial cells derived from severe COPD patients
Hong Guo-Parke (Belfast (Northern Ireland), United Kingdom), Dermot Linden, Ian Scott, Helen Killick, Lee Borthwick, Andrew Fisher, Sinéad Weldon, Clifford Taggart, Joseph Kidney
Characterization of human airway epithelial cell lines as in vitro models of chronic obstructive pulmonary disease

Aude Bodin (Rennes, France), Tatiana Victoni, Yann Verres, Pascale Bellaud, Alain Fautrel, Thomas Gicquel, Françoise Pons, Vincent Lagente

LSC - 2021 - 3D printing aids simultaneous isolation of proximal and distal lung epithelial progenitors from individual mice

Hani N. Alsafadi (Gaza, Palestine), John Stegmayr (john.stegmayr@med.lu.se / Lund University, Lund), Victoria Ptasinski (victoria.ptasinski@astrazeneca.com / Astrazeneca, Gothenburg), Margareta Mittendorfer (margareta.mittendorfer@med.lu.se / Lund University, Lund), Deniz Bölükbas (deniz.bolukbas@med.lu.se / Lund University, Lund), Lynne Murray (lynne.murray1@astrazeneca.com / Astrazeneca, Cambridge), Darcy Wagner (darcy.wagner@med.lu.se / Astrazeneca, Cambridge)

Precision Cut Lung Slices (PCLS) Thickness has Limited Impact on Tissue Viability

Rebecca Stinson (Hull, United Kingdom), Alyn Morice, Laura Sadofsky

Electrochemical sensor for evaluating oxidative stress in airway epithelial cells

Serena Di Vincenzo (Palermo (PA), Italy), Bernardo Patella, Maria Ferraro, Luciano Bollaci, Marco Buscetta, Chiara Cipollina, Giuseppe Aiello, Rosalinda Inguanta, Elisabetta Pace

Pre-congress content Session 403 13:15 - 14:15
E-poster: Biomarkers to phenotype asthma: prediction of exacerbations

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Airway diseases Interstitial lung diseases

Method(s): General respiratory patient care Epidemiology Public health Physiology Pulmonary function testing

Chairs: Fabio L. M. Ricciardolo (Orbassano (TO), Italy), Anirban Sinha (Amsterdam, Netherlands)

Eosinophilic phenotype classification of patients with asthma and/or COPD in NOVELTY

David Price (Singapore, Singapore), Ian D Pavord, Keith Peres Da Costa, Alvar Agusti, Gary P Anderson, Aruna T Bansal, Elisabeth H Bel, Malin Fagerström, Rod Hughes, Hiromasa Inoue, Glenda Lassi, José María Olaguibel, Alberto Papi, Marcelo Rabahi, Helen K Reddel, Adrian Rendon, Maarten Van Den Berge, Hana Müllerová

Importance of type and degree of IgE sensitisation for defining fractional exhaled nitric oxide reference values

Suneela Zaigham (Malmö, Sweden), Xingwu Zhou, Magnus Molin, Anders Sjolander, Robert Movéare, Christer Janson, Andrei Malinovschi

Eosinophilic inflammation and muscle mass in chronic airway disease

Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Tim Van Zutphen, Huib Kerstjens, Anneke Ten Brinke

Phenotyping asthmatic outpatients by cluster analysis in a real-world setting

Francesca Bertolini (Orbassano, Italy), Giorgio Ciprandi, Fabio Gallo, Elisa Riccardi, Vitina Carriero, Fabio Luigi Massimo Ricciardolo

Stability of blood eosinophils over time in patients with asthma

Katia Mc Verhamme (Rotterdam, Netherlands), Maria De Ridder, Dave Webb, Dani D. Prieto-Alhambra, Peter Rijnbeek, Lars Pedersen, Melissa K. Van Dyke, Guy Brusselle

The role of education in the comparison between self and physician-administered asthma control test scores

Silvano Dragonieri (Bari (BA), Italy), Enrico Scisci, Elena Capozza, Federica Barratta, Maria Luisa De Candia, Giovanna Elisiana Carpagnano

Features of FeNO-high asthma phenotype

Francesca Bertolini (Orbassano, Italy), Andrea Elio Sprio, Elisa Riccardi, Andrea Baroso, Vitina Carriero, Fabio Luigi Massimo Ricciardolo

Comparison between long- and short-term participants in a Disease Management Program (DMP) Bronchial Asthma in North Rhine Westphalia in Germany

Arne Weber (Köln, Germany), Sabine Groos, Jens Kretschmann, Christine Macare, Hagen Bernd

High prevalence of mild asthma among asthmatics visiting emergency department (ED)

<table>
<thead>
<tr>
<th>ERS Virtual International Congress 2021</th>
<th>DETAILED PROGRAMME</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUESDAY 07 SEPTEMBER, 2021</td>
<td></td>
</tr>
</tbody>
</table>

## Pre-congress content

### Session 404

**E-poster: Advances in asthma treatment: monoclonal antibodies**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

**Method(s):** Epidemiology Public health Cell and molecular biology Endoscopy and interventional pulmonology General respiratory patient care Pulmonary function testing

**Chairs:** Salman Siddiqui (Leicester, United Kingdom), Corrado Pelaia (Catanzaro (CZ), Italy)

**Utility of Interleukin-5 in phenotyping allergic versus non allergic asthma**

Jyoti Bajpai (Lucknow (Uttar Pradesh), India), Darshan Kumar Bajaj, Naveen Kumar, Richa Tyagi, Surya Kant, R A S Kushwaha, Ajay Kumar Verma

---

1. **Assessing the Asthma Impairment and Risk Questionnaire’s ability to predict exacerbations**
   - David Beuther (Denver, United States of America), Kevin R. Murphy, Robert S. Zeiger, Robert A. Wise, William McCann, Joan Reibman, Maureen George, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Melissa Ross, Karin S. Coyne, Bradley Chippis

2. **Acute exacerbation phenotypes of asthma and COPD: impact on clinical outcomes**
   - Muzhda Ghanizada (Copenhagen, Denmark), Ajjmal Jabarkhil, Susanne Hansen, Nanna Dyhre-Petersen, Christian Woehlk, Marianne Bastrup Søndergaard, Therese Lapperre, Celeste Porsbjerg

3. **Heterogeneity and time course of asthma exacerbations: data from AUSTRI**
   - Helen Reddel (Sydney, Australia), William Busse, Klaus F Rabe, Bhumika Aggarwal, Richard Forth, Isabelle Boucot, Ibrahim Raphiou, David Stempel

4. **Burden of asthma by treatment step in the French CONSTATANCES general population cohort**
   - Nicolas Roche (Paris, France), Rachel Nadif, Caroline Fabry-Vendrard, Laura Pillot, Gabriel Thabut, Clément Teissier, Stéphane Bouée, Marie Zins, Marcel Goldberg

5. **Asthma management - opinion of family doctors and patient’s view**
   - Anna V Demchuk (Vinnytsia, Ukraine), Yuriy M Mostovoy, Tetyana V Konstantynovych

6. **A pictorial asthma action plan to improve asthma control in Malaysian adults**
   - Shariff-Ghazali Sazlina (UPM Serdang, Malaysia), Ping Yin Lee, Ai Theng Cheong, Hani Syahida Salim, Norita Hussein, Hilary Pinnock, Su May Liew, Nik Sherina Hanafi, Chiu-Wan Ng, Rizawati Ramli, Azainursuzila Mohd Ahad, Bee Kiau Ho, Salibah Mohamed Isa, Richard Parker, Andrew Stoddart, Yong Kek Pang, Karuthan Chinna, Ee Ming Khoo

---

**PA3720**

**Methotrexate treatment in recent onset RA does not change the NO dynamics of the lung**

Marieann Högman (Uppsala, Sweden), Anders Lind, Anders Larsson, Johan Rönnelid, Tomas Weitsof
PA3726 Characteristics of a real world cohort of Canadians treated with benralizumab
Erika Penz (Saskatoon, Canada), Stephen G Noorduyn, Mackenzie A Hamilton, Brett Lancaster, Alain Gendron, Lawrence Mbuagbaw, Erika Penz

PA3727 Mepolizumab in the treatment of severe asthma with nasal polyposis: real-life study
Sara Maria da Costa Martins (Maia, Portugal), Eduarda Tinoco, Bruno Cabrita, Daniela Machado, Inês Franco, Inês Ladeira, Ivone Pascoal, Ricardo Lima, Salete Valente

PA3728 Spanish consensus on the characteristics of severe asthmatic patients under biological treatment suitable for at home administration

PA3729 Real-world patient characteristics and eligibility for biologics in severe asthma (RECOGNISE)
Frank Kanniess (Reinfeld (Holstein), Germany), Lilla Tamasi, Robert R. Mroz, Petros Bakakos, Susanne Tubis, Gustavo Resler Plat, Anat Shavit

PA3730 Heterogeneous response of airway eosinophilia to biologics in severe asthma patients
Sabina Skrgat (Golnik, Slovenia), Maruša Kopač, Matija Rijavec, Uška Bidovec Stojković, Izidor Kern, Romana Vantur, Peter Korošec

PA3731 Omalizumab exposure patterns in real-life: An 11-year French population-based study of 19,203 patients with severe asthma.
Celine Thonnelier (Rueil-Malmaison, France), Marc Humbert, Arnaud Bourdin, Antoine Deschmidt, Mathieu Molimard, Camille Taille, Driss Kamar, Audrey Lajoine, Alexandre Rigault

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

PA3733 Effect of dupilumab on patient-reported sleep outcomes in patients with severe asthma
Yi Zhang (Tarrytown, United States of America), Lawrence Sher, Giovanni Passalacqua, Camille Taillé, Lauren Cohn, Santiago Quirce, Nadia Daizadeh, Benjamin Ortiz, Asif H. Khan

PA3734 Identifying super-responders to benralizumab in severe asthma
David J Jackson (London, United Kingdom), Tim Harrison, Francesco Menzella, Vivian H Shih, Annie Burden, Esther Garcia Gil

PA3735 Real-life impact of weight in severe eosinophilic asthma patients treated with benralizumab
Francesco Menzella (Reggio Emilia (RE), Italy), Maria Aliani, Elena Altieri, Pietro Bracciale, Stefano Centanni, Fausto De Michele, Fabiano Di Marco, Girolamo Pelaia, Micaela Romagnoli, Pietro Schino, Silvia Boarino, Gianfranco Vitiello, Paola Rogliani

PA3736 Eosinophils in bronchial biopsy predict functional response to biological therapy in severe asthma
Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Hanaa Shafiek, Amanda Iglesias, Cristina Gomez, Mar Mosteiro, Jacinto Ramos, Antolin Lopez Viña, Luis Perez De Llano, Alfons Torrego, Ines Escribano, Carlos Almonacid, Carlos Melero, Celia Pinedo

PA3737 Severe asthma outcomes over two years of therapy with mepolizumab
Lynn Elsey (Hale, United Kingdom), Thomas Pantin, Leanne J Holmes, Gaeu Taverner, Stephen J Fowler

PA3738 Omalizumab in severe allergic asthma associated with COPD: a multicentric cohort study
Sophie Pereira (Croix, France), Nathalie Bautin, Juliette Verhille, Philippe Bonniaud, Gilles Devouassoux, Stephanie Fry, Laurent Guilleminault, Naji Khayath, Christophe Leroyer, Cecile Chenivesse, Nathalie Bautin

PA3739 Impact of biologic therapy in severe asthma with nasal polyps

PA3740 Real-world Omalizumab and Mepolizumab treated Difficult Asthma Phenotypes and their Clinical Outcomes
Wei Chern Gavin Fong (Isle of Wight, United Kingdom), Adnan Azim, Deborah Knight, Heena Mistry, Anna Freeman, Mae Felongo, Aref Kyyaly, Matthew Harvey, Paddy Dennison, Hongmei Zhang, Peter Howarth, Syed Hasan Arshad, Ramesh Kurukulaaratchy

PA3741 Utility of adherence checks in patients with severe asthma eligible for biologics: a single centre retrospective analysis
Madeleine E Oliver (Oxford, United Kingdom), Sarah Poole, Catherine Borg, Clare Connolly, Ian D Pavord, Timothy S C Hinks, Simon Couillard
The effectiveness of anti-IL5 biologies is comparable in previous-smokers and never-smokers with severe asthma
Susanne Hansen (Frederiksberg, Denmark), Susanne Hansen, Charlotte Ulrik, Ole Hilberg, Anna Von Bülow, Anders Christiansen, Claus R Johnsen, Johannes Schmid, Anne Sofie Bjerrum, Karin Assing, Alexandra Wimmer-Aune, Niels Krogh, Linda Rasmussen, Celeste Porsbjerg

Real-World Experience with dupilumab in Severe Asthma: One year data from an Italian Named Patient Program
Santi Nolasco (Catania, Italy), Raffaele Campisi, Claudia Crimi, Nicola Scichilone, Morena Porto, Gabriella Guarnieri, Alberto Papi, Bianca Beghè, Pietro Impellizzeri, Nunzio Crimi

Pre-congress content

Session 405 13:15 - 14:15
E-poster: Interstitial lung disease around the world
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Interstitial lung diseases, Respiratory critical care, Airway diseases
Method(s): General respiratory patient care, Epidemiology, Public health, Physiology, Imaging, Pulmonary function testing
Chairs: Catharina Moor (Rotterdam, Netherlands), Michael Kreuter (Heidelberg, Germany)

PA3742
Clusters of comorbidities in unclassifiable interstitial lung disease
Thomas Skovhus Prior (Egå, Denmark), Charlotte Hyldgaard, Sebastian Emanuele Torrisi, Sissel Kronborg-White, Claudia Ganter, Michael Kreuter, Elisabeth Bendstrup

PA3743
IPF cluster analysis highlights diagnostic delay and cardiovascular comorbidities association with outcome
Jaume Bordas-Martínez (barcelona, Spain), Ricard Gavalda, Jessica Shull, vanesa Vicens-Zygmont, Lurdes Planas-Cerezales, Guadalupe Bermudo-Poloche, Salud Santos, Neus Salord, Carmen Monasterio, Guillermo Suarez-Cuartin, Maria Molina-Molina

PA3744
PULMONARY HYPERTENSION IN PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS ON ANTI-FIBROTIC TREATMENT WITH PIRFENIDONE OR NINTEDANIB: CLINICAL EVALUATION AND PROGNOSTIC IMPACT
Silvia Romana Stornelli (Roma, Italy), Donato Lacedonia, Giulia Scioscia, Filomena Simone, Giorgia Lepore, Roberto Sabato, Giulio Giganti, Gianluca Ciliberti, Maria Pia Foschino Barbaro

PA3745
All-cause mortality in an Idiopathic Pulmonary Fibrosis (IPF) cohort: retrospective analysis with cardiac QRISK-2
Matthew Watson (Cambridge, United Kingdom), Thomas McLellan, Muhunthan Thillai

PA3746
Do worse scores on patient-reported outcomes predict the progression of interstitial lung disease (ILD)?
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Paolo Spagnolo, Martin mol, Michael Kreuter, Hillario Nunes, Wibke Stansen, Klaus Rohr, Giichi Inoue

PA3747
Patient-reported outcomes in idiopathic pulmonary fibrosis; validity and reliability of visual analogue scales
Catharina Moor (Rotterdam, Netherlands), R.L.M. Mostard, J.C. Grutters, P. Bresser, J.G.J.V. Aerts, M.S. Wijsenbeek

PA3748
Validation of the SGRQ-I derived from SGRQ
Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Saher Burhan Shaker, Jesper Rømhild Davidsen, Ole Hilberg, Haridarshan Patel, Elisabeth Bendstrup

PA3749
Evaluation of three dyspnea questionnaires in the progression of Interstitial Lung Diseases.
Onofre Moran Mendoza (Kingston (ON), Canada), Sami Alyami, Andres Moran-Macdonald, Maxine Kish, Sean Davison

PA3750
PFBIO EXA: A prospective cohort of respiratory hospitalization in IPF patients.
Emilia Achilles Åttingsberg (København N, Denmark), Nils Hoyer, Thomas Skovhus Prior, Elisabeth Bendstrup, Saher Shaker

PA3751
Association between FVC and mortality or survival in idiopathic pulmonary fibrosis: a systematic literature review
Maria Molina-Molina (Barcelona, Spain), Erin Hart, Beth Lesher, Anna Ribera, Jonathan Langley, Haridarshan Patel

PA3752
Nutritional assessment in patients with idiopathic pulmonary fibrosis: the NUTRIPF study
Paola Faverio (Limbiate (MI), Italy), Alessia Fumagalli, Sara Conti, Fabiana Madotto, Sara Busnelli, Francesco Bini, Sergio Harari, Michele Mondoni, Tiberio Oggionni, Emanuela Barisone, Paolo Ceruti, Chiara Papetti, Angelo De Laurentis, Antonella Caminati, Angela Valentino, Stefano Centanni, Donatella Noè, Matteo Della Zoppa, Silvia Crotti, Marco Grosso, Samir Giuseppe Sukkar, Denise Modina, Marco Andreoli, Roberta Niccoli, Giulia Suigo, Federica De Giacomi, Lorenzo Giovanni Mantovani, Alberto Pesci, Fabrizio Luppi

PA3753
Association between Pulmonary Infections and the Prognosis in Patients with Idiopathic Pulmonary Fibrosis
Masuda Norestani (Farum, Denmark)

PA3754
Association between FVC and mortality or survival in idiopathic pulmonary fibrosis: the NUTRIPF study
Paola Faverio (Limbiate (MI), Italy), Alessia Fumagalli, Sara Conti, Fabiana Madotto, Sara Busnelli, Francesco Bini, Sergio Harari, Michele Mondoni, Tiberio Oggionni, Emanuela Barisone, Paolo Ceruti, Chiara Papetti, Angelo De Laurentis, Antonella Caminati, Angela Valentino, Stefano Centanni, Donatella Noè, Matteo Della Zoppa, Silvia Crotti, Marco Grosso, Samir Giuseppe Sukkar, Denise Modina, Marco Andreoli, Roberta Niccoli, Giulia Suigo, Federica De Giacomi, Lorenzo Giovanni Mantovani, Alberto Pesci, Fabrizio Luppi

PA3755

Mai M. Aly (Assiut, Egypt), Taghreed S. Meshref (Tagreed.meshref@aun.edu.eg / Critical Care unit, Department of Internal Medicine, Faculty of Medicine, Assiut University, Assiut), Marwa A. Abdelhameid (Marwa.abdelhameid@aswu.edu / Department of Internal Medicine, Faculty of Medicine, Aswan), Shima A. Ahmed (shimaahematology1617@gmail.com / Department of Internal Medicine, Faculty of Medicine, Qena), Asmaa S Shaltout (AsmaaShaltout@aun.edu.eg / Department of Bacteriology and Immunology, Assiut), Alaa Eldin Abdel-Moniem (alaaelmoniem@yahoo.com / Critical Care unit, Department of Internal Medicine, Faculty of Medicine, Assiut University, Assiut), Dina A Hamad (dinaalhamad@aun.edu.eg / Critical Care unit, Department of Internal Medicine, Faculty of Medicine, Assiut University, Assiut)

Health care professionals' perceptions regarding the challenges of mechanical ventilation in the context of the COVID-19 pandemic

Lunnie Sabanai Shintaku (Brasilia, Brazil), Fabio Ferreira Amorim, Fabio Henrique Monteiro Oliveira, Carlos Humberto Llanos, Guillermo Alvarez Bestard, Sergio Henrique Evangelista, Rodrigo Rocha, Julia De Sá Kanbay, Alessandra Maia Freire, Licia Zanol Lorencini Stanzani, Fernando Viegas Do Monte, Sanderson Cesar Macedo Barbalho

Clinical experience with high-flow nasal cannula for COVID-19 patients in Japan.

Takashi Katsuno (Tokyo, Japan), Manabu Suzuki, Masayuki Hojo, Jin Takasaki, Haruhito Sugiyama

Prolonged mechanical ventilation patients receiving Acupuncture treatment for improving the respiratory status

Chang Yujen (Taichung City, Taiwan), Chen Jaming, Huang Sungyen

Diaphragm function in patients with sepsis and septic shock. A longitudinal ultrasound study

Aymeric Le Neindre (Férolles-Attilly, France), Johan Wormser, Marta Luperto, Cédric Bruel, Benoit Misset, Belaid Bouhemad, Francois Philippart

Early changes in ARDS severity in COVID-19 patients

Michiel Schuitj (Amsterdam, Netherlands), Marcus Schultz, Frederique Paulus, Ary Serpa Neto

POST-COVID-19 LUNG FIBROSIS: STUDY OF 600 CASES IN TERTIARY CARE SETTING IN INDIA

Shital Vishnu Patil (Latur (Maharashtra), India), Gajanan Gondhali, Rajesh Patil

EFFECT OF HYPERGLYCEMIA ON POST-COVID-19 LUNG FIBROSIS: STUDY OF 600 CASES IN TERTIARY CARE SETTING IN INDIA

Shital Vishnu Patil (Latur (Maharashtra), India), Rajesh Patil, Gajanan Gondhali

Revising risk stratification in mechanically ventilated ICU patients: the longitudinal European BioVent study

Lucas Boeck (Basel, Switzerland), Hans Parrger, Peter Schellongowski, Charles-Edouard Luyt, Marco Maggiorini, Kathleen Jahn, Jean Chastre, Rene Lütscher, Evelyne Bucher, Nadine Cueni, Martin Siegemund, Thomas Staudinger, Michael Tamm, Daiana Stolz

Hyperoxia on admission and mortality in patients with sepsis.

Lumnie Sabanai Shintaku (Brasilia, Brazil), Licia Zanol Lorencini Stanzani, Lumnie Shintaku, Daniella Oliveira, Pedro Argote, Rosalia Santana, Clarissa Araújo, Pedro Martins, Lara Mendes, Marcelo Maia, Carlos Silveira, Fabio Amorim

Late Breaking Abstract - Associations of intensity of ventilation with mortality in COVID–19 patients with ARDS

Michiel Schuitj (Amsterdam, Netherlands), David Van Meenen, Ignacio Martin–loeches, Guido Mazzinari, Marcus Schultz, Frederique Paulus, Ary Serpa Neto

Late Breaking Abstract - The mortality predicting factors at admission and during hospitalisation of patients with SARS COV2

Eriritjan Tashi (Fier, Albania), Perlat Kapisyzi, Eugerta Dilka, Sofiela Telo, Alma Teferic, Esmeralda Nushi, Klodina Bratja, Armela Cuko, Valentina Hima, Luljeta Hoxha, Serxho Golgota, Emira Osja, Franc Rrumbullaku, Marcel Broqi, Edi Vakeflliu, Erjon Sula, Silva Bala

Late Breaking Abstract - Enhanced immune activation pathways enriched in patients ≤70 years with severe COVID-19

Sumanta Mukherjee (Collegeville, United States of America), Luke O'Neill, Charlotte Summers, Gift Nyamundanda, Johannes Freudenberg, Anubha Gupta, Julia Smith, Jessica Neisen

Pre-congress content Session 407 13:15 - 14:15

E-poster: Pleural disease and bronchoscopic lung volume reduction

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care, Thoracic oncology, Airway diseases

Method(s): General respiratory patient care, Endoscopy and interventional pulmonology, Imaging, Respiratory intensive care
Complications from thoracocentesis and small bore chest drain: a retrospective study from a large UK pleural centre
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson, Andrew Brown, Claire Storey, Hannah Carlin, Michael Carling, Sean Porririt, Jordan Scott, Saara Hyatali, Joseph Miller, Opeyami Kafi, Hannah Rank, Emily Grimshaw, Dilraj Bhullar

Pneumothorax rates after CT guided biopsy: experience from a high volume cancer centre
Avinash Aujayeb (newcastle, Mauritius), Parag Narkhede

Day case local anaesthetic thoracoscopy - a review of service
Avinash Aujayeb (newcastle, Mauritius), Emily Hill

Improving the pleural procedures pathway in a tertiary cardiothoracic and cancer centre
Rebecca Cuttle (London, United Kingdom), Stephanie Uys, William Ricketts

Comparison of Direct vs Indirect Thoracic Ultrasound (TUS) guidance for pleural procedures and effects on pain scores
Anand Sundaralingam (Oxford, United Kingdom), Radhika Banka, Nicky Russel, Eihab Bedawi, Nikolaos Kanellakis, Ellawe Mohamed, Vineeth George, Dinesh Addala, Robert Hallifax, John Wrightson, Najib Rahman

Medical thoracoscopy: a safe approach for treatment of pleural empyema.
Corrado Ghirotti (Ravenna, Italy), Claudia Ravaglia, Silvia Puglisi, Sabrina Martinello, Christian Gurioli, Fabio Sultani, Venerino Poletti

The value and safety of CT localization under artificial pneumothorax to predict pleural adhesion before medical thoracoscopic giant emphysematous bulla reduction
Hua Zhang (Rizhao (Shandong), China), Hua Zhang, Yongdeng Cai, Guangwei Xue, Changsheng Ge, Wei Zhang

Monitored Anesthesia Care with Dexmedetomidine in Patients Undergoing Pleuroscopy: Effect on Oxygenation and Respiratory Function. A Prospective, Single-center Study.
Emmanouil Kapetanakis (Athens, Greece), Paraskevi Matsota, Ioannis Tomos, Periklis Tomos, Tatiana Sidropoulou

Ambulatory Management of Pneumothorax in a District General Hospital
Michael Carling (Newcastle, United Kingdom), Avinash Aujayeb

Thoracoscopic evaluation of the effect of tumour burden on the outcome of pleurodesis in malignant pleural effusion
Mohamed Ellayeh (mansoura, Egypt), Eihab Bedawi, Radhika Banka, Anand Sundaralingam, Vineeth George, Nikolaos Kanellakis, Robert Hallifax, John Wrightson, Najib Rahman

Pleurodosis through drain for malignant pleural effusion: a case control study
Ines Laouini (Nabeul, Tunisia), Narjess Abid, Manel Loukil, Nada Gader, Slim Kalboussi, Salsabil Bouafia, Hedia Ghrairi

Ultra-late pleural metastasis of breast cancer: are they so rare?
Davide Biondini (Padova, Italy), Marco Damin, Piergiorgio Baldessari, Mariaenrica Tinè, Elisabetta Coconcelli, Giulia Andreotti, Michele Rizzo, Matteo Daverio, Carlo Turatto, Erica Bazzan, Graziella Turato, Manuel G Cosio, Marina Saetta

Malignant pleural effusion: different treatments through countries
Slim Kalboussi (Tunis, Tunisia), Nada Gader, Narjes Abid, Manel Loukil, Hedia Ghrairi

Endoscopic lung volume reduction with endobronchial valves in patients with chronic hypercapnic respiratory failure: current data from the national Lung Emphysema Registry (LE-R) in Germany
Pavлина Lenga (Berlin, Germany), Christian Grah, Christoph Ruwee-Glisenkamp, Jacopo Saccomanno, Jens Rückert, Stephan Eggeling, Sven Gläsler, Sylke Kurz, Gunda Leschber, Stephan Eisenmann, Marcus Krüger, Bernd Schmidt, Paul Schneider, Stefan Andreas, Marc Hinterheraner, Joachim Pfranenschmidt, Andreas Gebhardt, Franz Stanzel, Angélique Holland, Andreas Kirschbaum, Birgit Becke, Olaf Schega, Ralf-Harto Hübner

Impact of pneumothorax as complication of endobronchial valve treatment on patient-reported outcomes
Marlies van Dijk (Groningen, Netherlands), Jorine Hartman, Karin Klooster, David Koster, Dirk-Jan Slebos

Evaluation of the Lung Volume Reduction Reverser System (LVR-R) in treating patients with severe emphysema. Feasibility and safety at 6 months follow up; preliminary results
Konstantina Kontogianni (Heidelberg, Germany), Judith Brock, Franziska Trudzinski, Claus Peter Heussel, Felix Jf Herst, Ralf Eberhardt

Ten years experience of paediatric airway foreign bodies
Diana Rotaru-Cojocari (Chişinău, Republic of Moldova), Victor Rascov, Eva Gudumac, Rodica Selevestru, Ina Garbi, Mariana Guzgan, Elena Papadia, Aliona Cotoman, Cristina Tomacinschii, Svetlana Sciuca
Late Breaking Abstract - The role of High Flow Nasal Cannula in reducing hypoxemic events during bronchoscopic procedures compared to Low Flow Nasal Cannula: a metanalysis
Fotios Sampsonas (Patra, Greece), Vasilios Karamouzos, Theodoros Karampitsakos, Ournia Papaioannou, Matthaios Katsaras, Maria Lagadinou, Dimitrios Velissaris, Grigorios Stratakos, Argyrios Tzouvelekis

Novel Stening® conical airway silicone stent: First experience in central airway stenosis
Georg Evers (Münster, Germany), Arik B. Schulze, Irina Osiaevi, Rainer Wiewrodt, Annalen Bleckmann, Michael Mohr

Pre-congress content
Session 408
13:15 - 14:15
E-poster: COVID-19 around the globe

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Respiratory critical care, Airway diseases, Pulmonary vascular diseases
Method(s): Public health, General respiratory patient care, Epidemiology, Respiratory intensive care, Cell and molecular biology
Tag(s): COVID

Chairs: Claudia Crimi (Catania (CT), Italy), Sundeep Kaul (London, United Kingdom)

Clinical and biologic risk factors for mortality in the first 6 months of SARS-CoV-2 in a Romanian hospital
Dragos-Cosmin Zaharia (Bucuresti, Romania), Alexandru Muntean, Alexandra-Maria Cristea, Antonela Dragomir, Elmira Ilraim, Gina-Ana Ciolan, Eddan Visan Athir, Ioana Bulacu, Ramona Nedelcu, Oana Parltianu, Stefan Leu, Silviu-Mihail Dumitru, Andrea Cristina Andru, Nona-Alexandra Chelaru, Oana Grigore, Beatrice Mahler, Claudia-Lucia Toma, Irina Strambu

Persisting immune response to SARS-CoV-2 in a local Austrian population
Dennis Ladage (Mönchengladbach, Germany), Oliver Harzer, Hannes Winkler, Andrea Knies, Miriam Schneider, Robert Wagner, Peter Engel, Wilhelm Frank, Ralf Braun

Prevalence and impact of comorbidities in Tunisian moderate to severe COVID-19 patients
Line Kaabi (Tunis, Tunisia), Sabrine Louhaichi, Ikbel Khalfallah, Rihab Jebali, Saya Marzouki, Med Ali Kherrad, Jamel Ammar, Agnes Hamzaoui

COVID-19 pneumonia in Galicia (Spain): impact of prognostic factors and therapies on mortality and need for mechanical ventilation
Indhira Mercedes Guzman Peralta (Lugo, Spain), Luis Perez De Llano, Eva Romay-Lema, Adolfo Baloira Villar, Christian Anchorena Diaz, Maria Torres Durán, Adrian Sousa, Dolores Corbacho-Abelaira, Carmen Diego-Roza, Laura Vilarinho-Maneiro, Pedro J Marcos, Carmen Montero Martinez, Fernando De La Iglesia Martinez, Vanessa Riveiro-Blanco, Nuria Rodriguez Nuñez, José Abal-Arca, Maria Bustillo Casado, Rafael Golpe

Factors predicting the onset of Covid-19 among healthcare workers at Hassan II hospital in Agadir
Abdelkrim Khamous (Agadir, Morocco), Fatiba Bounoua, Lamia Manssouri, Houda Moubachir, Hind Serhane

Severe prognosis factors linked to Covid-19 patients hospitalized at Hassan II hospital in Agadir
Abdelkrim Khamous (Agadir, Morocco), Fatiba Bounoua, Hind Jamil, Ilyass Esserfati, Houda Moubachir, Hind Serhane

Thromboembolic events in COVID-19 patients: A Tunisian case series study.
Sabrine Louhaichi (Ariana, Tunisia), Mariem Perchichi, Ikbel Khalfallah, Safa Belkhir, Nouha Boubaker, Jamel Ammar, Besma Hamdi, Aghes Hamzaoui

SARS-CoV-2 infection in transplant recipients: experience of a COVID-19 unit in Portugal
Mário Alexandre Oliveira Pinto (Amadora, Portugal), Sara Fernandes, João Rodrigues, Ana Raquel Pinto, Ema Leal, Margarida Torres, Stepanka Betkova, Rita Gonçalves, Ana Sofia Santos, Sara Lino, Luisa Semedo, João Cardoso, Fernando Maltez
### Pre-congress content

**Session 409**

**E-poster: Prediction of exacerbations in patients with COPD**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

**Disease(s):** Airway diseases

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

**Tag(s):** COVID

**Chairs:** Christina Bal (Wien, Austria), Therese Lapperre (Antwerp, Belgium)

---

| PA3814 | Hyperglycemia and diabetes mellitus as mortality risk factors in 600 COVID-19 Romanian patients |
| PA3815 | Mortality risk in a Romanian cohort of patients hospitalised for COVID-19 |
| PA3816 | First and second wave of COVID-19 in Tunisia: A comparative study among patients hospitalized in a medicine department |
| PA3817 | The predictors of COVID-19 mortality in a nationwide cohort of Turkish patients |
| PA3818 | Risk Factors for Mortality of COVID-19 Confirmed Cases Admitted at Lung Center of the Philippines |
| PA3819 | Clinical and epidemiological features of SARS-CoV-2 infection among hospitalized children in Ukraine |
| PA3820 | SARS-CoV-2 seropositivity in asymptomatic frontline health workers in Ibadan, Nigeria |
| PA3821 | Predictors of COVID-19-related mortality: experience of the isolation unit at the Gabies regional hospital |
| PA3822 | Correlates of the SARS-CoV-2 Ag or Total Ig antibody levels with hematological parameters in Greek hospitalized COVID-19 patients |

---

**Implementation of an integrated care model for fragile COPD patients: a controlled prospective study**

By Hanaa Shafiek (Alexandria, Egypt), Javier Verdú, Federico Fiorentino, Jose Luis Valera, Rocío Martínez, Susana Romero, Lluís Ramon-Clar, Nuria Toledo-Pons, Ernest Sala, Borja G Cosio

**Increased Exacerbations of Chronic Obstructive Pulmonary Disease in Alpha-1 Antitrypsin Carriers**

By Monica Goldklang (New York, United States of America), Kevin Law, Adam Gerber, Julie Olsen, Claudius Henry, Gebhard Wagener, Jeanine D’Armentio
<table>
<thead>
<tr>
<th>PA3825</th>
<th>Neutrophil-to-lymphocyte ratio predicts clinical outcome of severe acute exacerbation of COPD in frequent exacerbators</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fang-Ying Lu (Shanghai, China), Rong Chen, Ning Li, Xian-Wen Sun, Min Zhou, Qing-Yun Li, Yi Guo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3826</th>
<th>Increasing risk of exacerbation and mortality associated with increasing frequency and severity of exacerbations in COPD patients: EXACOS-UK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hannah Whittaker (London, United Kingdom), Annalisa Rubino, Hana Müllerová, Tamsin Morris, Precil Varghese, Yang Xu, Enrico De Nigris, Jennifer K Quint</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3827</th>
<th>Predicting 12-month mortality in a Scottish COPD cohort</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chris Carlin (Glasgow (Glasgow), United Kingdom), Shane Burns, David Lowe, Anna Taylor, Paul Meginness</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3828</th>
<th>Patient characteristics and invasive ventilation decisions in ECOPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sarah M. Gillespie (Newcastle Upon Tyne, United Kingdom), Nicholas D Lane, Carlos E Echevarria, Katherine E Frew, Stephen C Bourke</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3829</th>
<th>Systemic interleukin-26 relates to the risk of exacerbations in smokers with COPD and chronic bronchitis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rickard Lundgren (Stockholm, Sweden), Kristina Andelid, Monika Ezerskyte, Nikolaos Pournaras, Bettina Brandin, Karlhans Fru Che, Anders Linden</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3830</th>
<th>Parathyroid hormone: a neglected biomarker of exacerbations and hospitalizations in patients with COPD and hypovitaminosis D.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Mayte García-Unzueta, Juan Agiero Calvo, Paula Martín Audera, Sandra Tello Mena, Sheila Izquierdo Cuervo, Guido Andretta Juarez, Joy Selene Osorio Chavez, Marta Cristetor Porras, Laura Gonzalez Ramos, Noelia Borja Vargas, Armando Raul Guerra, Milagros Ruiz De Infante Pérez, Ana Berja</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3831</th>
<th>Leveraging causal modeling to predict future COPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Robert Gregg (Pittsburgh, United States of America), Panayiotis Benos</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3832</th>
<th>Impact of anemia in patients admitted due to a chronic obstructive pulmonary disease (COPD) exacerbation.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Katiuska Herninia Liendo Martinez (Madrid, Spain), Alicia Cerezo Lajas, Sergio Suarez Escudero, Virginia Gallo Gonzalez, Luis Puente Maestu, Javier De Miguel Diez</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3833</th>
<th>Predicting an AECOPD from vital signs during daily life: insights from novel technology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grace France (Leicester, United Kingdom), Matthew Richardson, Neil Greening, Dale Esliger, Samuel Briggs-Price, Emma Chaplin, Lisa Clinch, Michael Steiner, Sally Singh, Mark Orme</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3834</th>
<th>Usefulness of chest computed tomography as a tool to predict COPD exacerbations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal), Sofia Rodrigues Sousa, Lidia Sousa Gomes, Cidália Rodrigues</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3835</th>
<th>Physiological impairments and exacerbation risk in COPD patients with less symptom and no frequent exacerbation history.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yi Zhang (Kyoto, Japan), Naoya Tanabe, Hiroshi Shima, Yusuke Shiraishi, Tsuyoshi Oguma, Atsuyasu Sato, Shigeo Muro, Susumu Sato, Toyohiro Hirai</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3836</th>
<th>Reversibility at pulmonary function tests: can it have implications in patients with COPD?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yurii Mostovoy, Nataliia Slepchenko, Dmytro Dmytriiev</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3837</th>
<th>Airway resistance and characterization of airway obstruction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Raquel Barros (Lisboa, Portugal), Liliana Raposo, Ana Sofia Oliveira, Cristina Bárbara</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3838</th>
<th>LSC - 2021 - The relationship between the level of C-reactive protein and the general cardiovascular risk in patients with COPD and hypertension</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Olha Boiko (Dnipro, Ukraine), Olena Kovalenko (<a href="mailto:elen.rk@ukr.net">elen.rk@ukr.net</a> / SI DMA, Dnipro), Viktoria Rodionova (<a href="mailto:v.rodionova@i.ua">v.rodionova@i.ua</a> / SI DMA, Dnipro)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3839</th>
<th>Oxygen therapy within first 24 hours of admission in patients with COPD and risk of adverse events - an observational study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Charlotte Sandau Bech (Hvidovre, Denmark), Charlotte Sandau Bech, Jens-Ulrik Stæhr Jensen, Ejvind Frausing-Hansen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3840</th>
<th>Late Breaking Abstract - Analysing the COPD care pathway in Japan, Canada, England and Germany: pilot study results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Anne Meiwald (London, United Kingdom), Rupert Gara-Adams, Yixuan Ma, Mohit Bhutani, Masakazu Ichinose, Jane Scullion, Henrik Watz, Thomas Wilkinson, Georgie Weston, Elisabeth Adams</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3841</th>
<th>Late Breaking Abstract - The effect of comorbidity on the course and outcomes of COPD in observation in the primary health care, including on the background of the COVID-19 pandemic: a comparative analysis.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Valeriy Elykomov, Inna Anisimova</td>
</tr>
</tbody>
</table>
Late Breaking Abstract - Relationship between clinical features and mortality in a cohort of COPD patients.
Paolo Solidoro (Moncalieri (TO), Italy), Fulvio Braido, Marco Contoli, Angelo Corsico, Fabiano Di Marco, Claudio Micheletto, Girolamo Pelaia, Paola Rogliani, Laura Saderi, Nicola Scichilone, Giovanni Sotgiu, Giandomenico Manna, Silvia Boarino, Pierachille Santos

Pre-congress content  Session 410  13:15 - 14:15
E-poster: COVID-19 and management of lung cancer
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Thoracic oncology  Respiratory critical care
Method(s): General respiratory patient care  Public health  Palliative care  Surgery  Endoscopy and interventional pulmonology
Epidemiology  Respiratory intensive care
Tag(s): COVID

Chairs: Amanda Tufman (München, Germany), Rudolf M. Huber (Munich, Germany)

Impact of the COVID19 pandemic on patterns of respiratory, thoracic oncology and thoracic surgery outpatient care
Georgia Hardavella (Athens, Greece), Georgia Hardavella, Elena Bellou, Ioannis Karampinis, Elli Keramida, Panagiotis Demertzis

Delayed interval scanning is not associated with stage-shift at diagnosis: Preliminary results to support guidelines for lung screening during the COVID-19 pandemic
Andrew Creamer (Bristol (Avon), United Kingdom), Jennifer Dickson, Carolyn Horst, Sophie Tisi, Helen Hall, Priyam Verghese, John Mccabe, Kylie Gyetson, Anne-Marie Mullin, Laura Farrelly, Christina Clark, Stephanie Hamilton, Brian Allen, Allan Hackshaw, Anand Devaraj, Arjun Nair, Sam Janes

Collateral impact of COVID19 pandemic on lung cancer services in a tertiary referral centre
Georgia Hardavella (Athens, Greece), Elissavet Babaliari, Elena Bellou, Ioannis Karampinis, Elli Keramida, Irma Bracka, Panagiotis Demertzis

Lung nodule management in Covid-19: does postponed surveillance matter?
Ratnaprashanthika Ratnakumar (Ilford (Essex), United Kingdom), Jocelyn Fraser, Rebecca Nicholls, Jennifer Quint, Susannah Bloch

The Covid-19 pandemic and lung cancer: psychological and diagnosis impacts
Walid Feki (Sfax, Tunisia), Mouhamed Moustapha Hamoudi, Rim Khemakhem, Med Lemine Sidi Oumare, Nesrin Kallel, Rahma Gargouri, Ilhem Yangui, Hajer Ayadi, Samy Kammoun

Increase in lung cancer emergency presentations during the COVID-19 pandemic
Claire Vella (Naxxar, Malta), Asif Ashraf, Rajini Sudhir, Prajakta Pinglay, Indrajeet Das, Mohammed Fiyaz Chowdhry, Apostolos Nakas, Cathy Richards, Sridhar Thiagarajan, Rakesh Panchal, Samreen Ahmed, Sanjay Agrawal, Muhammad Tufail, Jonathan Bennett

Effect of quarantine in hospital admissions for lung cancer
Ioanna Sigala (Athens, Greece), Vasilieos Giannakoulis, Timos Giannakas, Efthimios Zervas, Aikaterini Brinia, Niki Gianniou, Efrosyni Dima, Andreas Asimakos, Paraskevi Katsaounou

Thoracic cancer patients and Covid-19: experience from a portuguese tertiary care unit
Raquel Viana (Leiria, Portugal), Daniel Coutinho, Eloisa Silva, Sergio Campainha, Margarida Dias, Telma Costa, Ana Barroso

Lung Cancer vs. „Young Cancer“ – Is There a Difference?
Monika Bratová (Brno 35, Czech Republic), Karolina Hurdalkova, Karolina Hurda, Juraj Kultan, Matyas Wanke, Martin Svaton, Kristian Brat

Non-small cell lung cancer: how do experts want to be treated?
Nimet Aksel (Izmir, Turkey), Banu Aktin Yoldas, Esra Kirakli, Ibrahim Petekkaya

Evolution in the diagnostic approach to lung cancer
Joana Da Silva Arana Fonseca Ribeiro (Almada, Portugal), Gonçalo Samouco, Rebeca Martins Natal, Sara Braga, Filomena Luís, Luis Ferreira, Rita Matos Gomes, Luis Vaz Rodrigues

Evaluation of cancer-associated thrombosis risk in patients with lung adenocarcinoma using the COMPASS-CAT risk assessment model
Andriani Charpidou (Athens, Greece), Miltiadis Chrysanthidis, Evangelos Dimakakos, Dimitra Grapsa, Petros Bakakos, Grigorios Stratakos, Konstantinos Syrigos
**Pre-congress content Session 411 13:15 - 14:15**

**E-poster: E-health for COVID-19**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

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

**Tag(s):** COVID, Digital health

**Chairs:** Vitaly Mishlanov (Perm, Russian Federation), Io Hui (Edinburgh (Edinburgh), United Kingdom)

**PA3862** Feasibility of COVID-19 telerehabilitation program from hospital to home using smartphone application: Prospective pilot program.
Jaume Bordas-Martínez (Barcelona, Spain), Lluís Matéu Gómez, David Cámara Menoyo, Ana Luzardo-González, Salud Santos, Rosa Planas, Maria Molina-Molina

**PA3863** From face-to-face to telerehabilitation: patients prefer a mixed model on a pandemic-free future.
Catarina Duarte Santos (Almada, Portugal), Fátima Rodrigues, Cátia Caneiras, Cristina Bárbara

**PA3864** Inter-rater reliability of a remote exercise capacity assessment of COVID-19 survivors.
Laura Lopez Lopez (Granada, Spain), Andrés Calvache-Mateo, Maria Granados-Santiago, Irene Cabrera-Martos, Irene Torres-Sánchez, Marie Carmen Valenza

Frank Rassouli (Speicher, Switzerland), Maximilian Boesch, Florent Baty, Peter Tinschert, Filipe Barata, Iris Shih, David Cleres, Elgar Fleisch, Martin H. Brutsche

**PA3866** The impact of COVID-19 and virtual clinics on physician behaviour in respiratory ambulatory care.
Eamon Sweeney (Letterkenny, Ireland), Marcus Butler, Eleanor Dunican, Emmet Mcgrath, Michael Keane, Cormac Mccarthy

**PA3867** COVID-19 advanced respiratory physiology (CARP) wearable respiratory monitoring: early insights.
Chris Carlin (Glasgow (Glasgow), United Kingdom), Stephanie Lua, Anna Taylor, Malcolm Sim, Bruce Henderson, Chris Trueman, Oisian Meredith, Shane Burns, Paul Mcginness

**PA3868** Self reported impacts of remote monitoring in England during COVID-19.
Helen Parrott (Stockholm, Sweden), Laura O'Connor, Scott Hawkes
**Identifying COVID-19-infected healthcare workers using an electronic ‘nose’**
Steef Kurstjens (’s Hertogenbosch, Netherlands), Noemí García-Tardón, Marion Fokkert, Wouter H. van Geffen, Robbert Slingerland, Job Van Der Palen, Ron Kusters

**Self-reported usability and acceptability of using virtual consultations (VCs) during and after COVID-19 pandemic in the UK**
Nasir Majeed (Salford, United Kingdom), Nasir Majeed, Sean Knight, Nawar Diar Bakerly

**The COVID-19 risk perception and concern: a survey of patients on long term oxygen therapy or domiciliary noninvasive ventilation**
Pietro Impellizzeri (Catania, Italy), Claudia Crimi, Marialuisa Giuffrida, Santi Nolasco, Raffaele Campisi, Nunzio Crimi

**Diagnostic role of the cough profile in COVID-19 patients**
Clare Davidson (Barcelona, Spain), Antonio Caguana, Manuel Lozano-García, M Arita, Luis Estrada-Petrocelli, Ignasi Ferrer-Lluis, Yolanda Castillo-Escario, P Ausín, J Gea, Raimon Jané

**Late Breaking Abstract - Dynamic Early Warning Score versus National Early Warning Score-2 for predicting death or intensive care unit admission in respiratory patients**
Sherif Gomem (Ratby, United Kingdom), Adam Taylor, Grazziela Figueredo, Sarah Forster, Tricia Mckeever, Jonathan Garibaldi, Dominic Shaw

**Late Breaking Abstract - RECEIVER trial: sustained use and improved outcomes with digitally supported COPD co-management**
Chris Carlin (Glasgow (Glasgow), United Kingdom), Anna Taylor, Jacqueline Anderson, Shane Burns, Paul Meginness, David Lowe

**Late Breaking Abstract - Novel low-cost remote respiratory auscultation device vs. traditional stethoscope**
Ines Alejandra Betancourt Torres (Barcelona, Spain), Patricia Alejandra Peña Torres, Jacqueline Torres Castillo, Javier Sobrino Martinez

**Late Breaking Abstract - Impact of increasing notification thresholds for remote respiratory monitoring in patients with chronic lung disease**
Neema Moraveji (San Francisco, United States of America), Michael Polsky, Mark Holt

**E-poster: Biological and functional markers of COVID-19**
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

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

**Method(s):** Cell and molecular biology  General respiratory patient care  Imaging  Pulmonary function testing  Epidemiology  Respiratory intensive care  Physiology  Public health  Pulmonary rehabilitation

**Tag(s):** COVID

**Chairs:** Isis Enllil Fernandez (München, Germany), Laura Fregonese (London, United Kingdom)

**Association of laboratory markers with oxygen saturation and radiological findings in hospitalized COVID-19 patients**
Dragan Mijakoski (Skopje, North Macedonia), Zorica Markovska, Iskra Meshkova, Sasho Stoleski, Jordan Minov, Jovanka Karadzinska-Bislimovska

**Hemiluminescent activity of blood phagocytes in patients with covid-19.**
Sergey Tereshchenko (Krashoyarsk, Russian Federation), Anna Lazareva, Oksana Kolenchukova, Svetlana Smirnova, Victoyra Melder

**Prospective biochemical and hematological markers to differentiation severe from non-severe COVID-19 disease**
MONA-ELISABETA DOBRIN (IASI, Romania), Oana-Elena Rohozeanu, Radu Crisan-Dabija, Radu-Ionel Cernat, Ioana Buculei, Roberta-Jonela Cernat, Elena Popa, Antigona Trofor

**Dynamics of the intensity of the immune response in COVID-19**
Ekaterina Makarova (Nizny Novgorod, Russian Federation), Natalya Lyubavina, Marina Milyutina, Irina Polyakova, Ekaterina Nekaeva, Elena Galova, Gennady Odintsov, Nikolay Menkov

**Hematological changes in COVID-19 and their association with the severity of the disease**
jihen Ben Halima (Tunis, Tunisia), Asma Allouche, Khadija Echi, Khaoula Hemissi, Hatifa Zaibi, Emna Ben Jemia, Hichem Aouina
Laboratory, functional and imaging changes in the follow-up of hospitalized patients with COVID 19
Plamen Titorenkov (Sofia, Bulgaria), Milena Encheva, Sofia Zabadanova, Emilia Naseva

Neutrophil-to-lymphocyte, platelet-to-lymphocyte ratio and adiposity in early COVID -19
Radostina Cherneva (Sofia, Bulgaria), Zheyna Cherneva

Can Exhaled Nitric Oxide Be a Biomarker for Hospitalized and Post-COVID-19 Patients?
Sergio Ferreira (São José dos Campos - SP, Brazil), Sergio Ferreira, Wendel S Fernandes, Ricardo C A Ferreira, Patricia B Fialho, Carlos E R Santos, Lucas M Araujo, Leonardo M B R Santos, Maysa A R Brandao-Rangel, Claudio R Frison, Rodolfo P Vieira

CT patterns of lung damage and prognosis markers for the course of a new coronavirus infection COVID-19 in persons with comorbidities
Vera Nevzorova (Vladivostok (Primorsky Krai), Russian Federation), Anastasiia Sakovskaia, Marina Ermolitskaya, Anna Simakova, Elena Novitskaya

Radostina Cherneva (Sofia, Bulgaria), Zheyna Cherneva

COVID-19 and obesity: specific clinical and laboratory features
Anna Buchneva (Moscow, Russian Federation), Nathalia Chichkova

Neutrophil-Lymphocyte and Neutrophil-Platelet Ratio during covid-19 infection: association with the occurrence of thromboembolic events
marzouki safar (tunis, Tunisia), Maazaoui Sarra, Nouira Imen, Hbibech Sonia, Racil Hajer, Chaouch Nawel

Cerebral venous thrombosis in Covid-19
 Walid Feki (Sfax, Tunisia), Amal Saidani, Nesrine Kallel, Rym Khemekhem, Nadia Moussa, Rahma Gargouri, Samy Kammoun

Late Breaking Abstract - Breathlessness post COVID-19 despite improvement in cardiopulmonary health
Mark Philip Cassar (Oxford, United Kingdom), Nayia Petousi, Ling-Pei Ho, Nick P Talbot, Adam J Lewandowski, Masliza Tunnicliffe, Cheng Xie, Stefan Piechnik, Vanessa Ferreira, David Holdsworth, Stefan Neubauer, Betty Raman

Late Breaking Abstract - COVID-19 risk perception and vaccine willingness among healthcare workers in specialized respiratory clinics in Germany
Maria Ada Presotto (Heidelberg, Germany), Rudolf A. Jörres, Wolfgang Gesierich, Jörn Bullwinkel, Klaus Rabe, Konrad Schultz, Franziska Kaestner, Dominik Harzheim, Michael Kreuter, Felix J F Herth, Franziska Trudzinski

Late Breaking Abstract - Long COVID-19 symptoms including fatigue are more frequent in women independently of COVID-19 treatment
Sebastian Sohrab (Duisburg, Germany), Dirk Westhölter, Christian Taube, Norbert Mülleneisen, Marcus Joest, Wilfried Roemer, Susanna Joerger-Tuti, Wolfgang Wende

Late Breaking Abstract - 12-month lung clinical and functional consequences in patients with severe COVID-19
Gulnora Abdullaeva (Moscow, Russian Federation), Malika Mustafina, Segey Avdeeve, Galina Gordin

Late Breaking Abstract - Development of a multivariate model for clinical prediction in COVID 19 infected patients
Auchiles Assuncao Camelier (Salvador (BA), Brazil), André Costa, Meireles, André Luiz Freitas De Oliveira, Victor Costa Araujo, Marcos Filippe Lima Santos, Luis Claudio Lemos Correia

Late Breaking Abstract - Retrospective observational analysis of platypnea-orthodeoxia syndrome (POS) in long COVID over 5 months at a pulmonary medicine unit
Tanya Athavale (Mumbai, India), Amita Athavale, Kartik Joshi, Sushmitha Ravindran, Ayushi Trehan, Pooja Khupse, Mahesh Jansari, Sonal Karpe

Pre-congress content Session 413 13:15 - 14:15
E-poster: A multidisciplinary approach to pulmonary rehabilitation and management of chronic respiratory diseases

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.
**Disease(s):** Interstitial lung diseases, Airway diseases, Sleep and breathing disorders, Respiratory critical care

**Method(s):** General respiratory patient care, Pulmonary rehabilitation, Epidemiology, Public health, Pulmonary function testing

**Physiology:** Cell and molecular biology, Palliative care

**Tag(s):** COVID

**Chairs:** Rainer Gloeckl (Schoenau am Koenigssee, Germany), Zuleyha Bingol (Istanbul, Turkey)

**PA3896**
Late Breaking Abstract - Effects of pulmonary rehabilitation on major symptoms of long COVID (post-COVID-19 syndrome): preliminary results
Virginie Molinier (Lodève, France), Francois Alexandre, Adriana Castanyer, Antonin Vernet, Joan Lluis Aliaga-Parera, Nicolas Oliver, Nelly Héraud, Francois Alexandre

**PA3897**
Levels of functioning in asthma patients using the WHODAS II
Natalia Sanina (Dnipro, Ukraine), Anatoliy Ipatov, Natalia Hondulenko, Svitlana Panina

**PA3898**
Early Supported Discharge with Home Oxygen in COVID-19 Patients
Marcus Anthony Pittman (Basildon (Essex), United Kingdom), Matilda Boa, Jessica Feaver, Katy Young, Alice Neube, Ousman Jallow, Janet Kohn, Joanne Peacock

**PA3899**
Pulmonary rehabilitation and changes in respiratory muscles, aerobic capacity and quality of life in Colombian patients with Interstitial Lung Disease
Lina Marcela Orozco Mejia (Cali, Colombia), Alexandra López López, Ricardo Mosquera, Julián Andrés Rivera Motta

**PA3900**
Carbon monoxide diffusing capacity (DLCO) in COVID-19 survivors versus idiopathic pulmonary fibrosis (IPF): the pathogenetic features
Lyudmila Konopkina (Dniepropetrovsk, Ukraine), Olha Shchudro, Ksenia Bielosludtseva, Tetyana Pertseva, Lyudmila Konopkina, Marjia Krykhhtina

**PA3901**
Patients’ and caregivers’ perceptions toward nebulization therapy for COPD: The first quantitative survey done in India
Harjitsingh Dumra (Ahmedabad (Gujarat), India), Arjun Khanna, Sujeet Madhukar, Meena Lopez, Rashmi Hegde, Jaideep Gogtay, Dr. Sandeep More

**PA3902**
Desaturation-distance ratio during field exercise test in lymphangioleiomyomatosis: a cross-sectional study
Douglas Silva Queiroz (São Paulo, Brazil), Cibele Cristine Berto Marques Da Silva, Alexandre Franco Amaral, Martina Rodrigues Oliveira, Henrique Takachi Moriya, Carlos R R Carvalho, Bruno Guedes Baldi, Celso R F Carvalho

**PA3903**
Covid-19 related concerns and outcomes from shielding in clinically extremely vulnerable adults and children with neuromuscular disease
Lydia Spurr (London, United Kingdom), Ruth Wakeman, Hui-Leng Tan, Michelle Chatwin, Anita Simonds

**PA3904**
Development of Culturally Appropriate Pulmonary Rehabilitation (PR) for Sri Lanka: A qualitative study
Chamilia Perera (Kelaniya, Sri Lanka), Zainab Yusuf, Akila Jayamaha, Mark Orme, Upendra Wijayasiri, Thamara Amarasekara, Amy Jones, Rhume Miah, Rupert Jones, Andy Barton, Michael Stainer, Savithri Wimalasekara, Sally Singh

**PA3905**
Factors affecting caregiver burden in pulmonary patients
Bilge Yılmaz Kara (Rize, Turkey)

**PA3906**
The role of personality traits in the pulmonary rehabilitation response in COPD patients
Pauline Caille (LODEVE, France), François Alexandre, Virginie Molinier, Nelly Héraud

**PA3907**
Validity and reliability evidence of the general self-efficacy scale in Greek patients with COPD.
Andreas Daskalakis (N. Smyrni - Athens, Greece), Vasilis Brisisim, Eirini Grammatopoulou, Eleni Smyrli, Aikaterini Chaniotou

**PA3908**
Effectiveness of triage pathways for prioritising patient care by a multi-disciplinary community respiratory team during the COVID-19 pandemic
Emily Turner (Glasgow, United Kingdom), Emma Johnson, Stewart Gingles, Katie Levin, Elaine Mackay, Claire Roux, Kirsten Farrell, Marianne Milligan, Kirsty Murray, Suzanne Adams, Marion Mackie, Joan Brand, Hannah Bayes, David Anderson

**PA3909**
Frequency of dyspnea in patients with post-COVID syndrome
Fabrizio Diaferia (bari, Italy), Andrea Portacci, Ernesto Lulaj, Martina Fucci, Emanuele Spalluto, Silvano Dragonieri, Giovanna Elisiana Carpagnano

**PA3910**
Frailty: An indicator for poor outcomes among in-hospital pulmonology patients
Nilüfer Aylin Acet Öztürk (Bursa, Turkey), Nilüfer Aylin Acet Öztürk, Ash Şöre Dilektaşlı, Özge Aydın Güçlü, Ahmet Uşavaşa, Ezgi Demirdögen, Funda Coşkun, Esra Uzaslan, Mehmet Karadağ
Comparison of two physiotherapy treatments in patients with acute exacerbation of chronic obstructive pulmonary disease: a pilot study
Andrés Calvache Mateo (Granada, Spain), Laura López López, Janet Remedios Rodríguez Torres, Irene Torres Sánchez, María Granados Santiago, Javier Martín Núñez, María Carmen Valenzuela

Does a supplementation in branch amino acid improve pulmonary rehabilitation effect in COPD?
Jean-Claude Meurice (Poitiers, France), Fabrice Caron, Pierre Ingrand, Quentin Bretonneau, Olivier Dupuy, Claire De Bisschop

Effects of Combined Physical Training on Lung Function and Mechanics and on Pulmonary Immune Response in Obese Women
Anamei Silva-Reis (São José dos Campos, Brazil), Anamei Silva-Reis, Maysa A Rodrigues Brandao-Rangel, Renilson Moraes-Ferreira, Thiago G Gonçalves-Alves, Victor H Souza-Palmeira, Helida C Aquino-Santos, Claudio R Frison, Rodolfo P Vieira

Late Breaking Abstract - Functional benefits of post COVID-19 multidisciplinary pulmonary rehabilitation program
Richard Haouchan (Beirut, Lebanon), Richard Haouchan, Moussa Riachy, Carine Harmouch, Zakaria Naoum, Myriam Salameh, Pierre Merheb, Toni Matta, Serge Aoun, Antoine Kik, Marc Raad, Hind Eid, Bassam Habr

Process evaluation of the British Lung Foundation Active Steps service
Arwel Jones (Melbourne, Australia), Hayley Robinson, Mark Saunders, Amanda Brewster, Colin Ridyard, Murray Smith, Jenna Peel, Claire Wilson, Jan Swan, Susan Frizzell, Abi Dean, Mark Hinchcliffe, Graham Law, Nirosan Sirwardena

Pre-congress content Session 414 13:15 - 14:15
E-poster: Paediatric allergic asthma: novel therapeutics and monitoring approaches
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in an e-poster pdf format with a 3-minute audio narration. Participants and chairs of the session are invited to access all e-posters from 23 August to 4 September prior to the 1-hour live, online discussion scheduled from September 5-7. Please note that during live discussion there will be NO e-poster/abstract presentations, only discussion.

Disease(s): Asthma
Method(s): Pulmonary function testing, General respiratory patient care, Epidemiology, Public health, Pulmonary rehabilitation, Respiratory intensive care, Physiology
Chairs: Erol Gaillard (Leicester (Leicestershire), United Kingdom), Katharina Kainz (Wien, Austria)

Stop omalizumab: a multicenter follow up study after discontinuation in pediatric patients with severe asthma
Valentina Agnese Ferraro (Rosa' (VI), Italy), Amelia Licari, Alessandro Volpini, Grazia Fenu, Manuela Seminara, Franca Rusconi

Characterisation of a paediatric population referred for a dysfunctional breathing assessment
Kirstin Unger (Edinburgh, United Kingdom), Laura Blazey, Pooja Seta, Kenneth Macleod

Use of Omalizumab in children in real clinical practice.
Evelina Lokshina (Moscow, Russian Federation), Svetlana Zaytseva, Olga Zaytseva, Anna Tomilova, Olga Murtazaeva, Valery Mukhovlyikh, Irina Tsymbal

Adverse drug reactions of leukotriene receptor antagonists in children with asthma: a systematic review
Eleanor Dixon (Swindon, United Kingdom), Charlotte Rugg-Gunn, Ian Sinha, Daniel Hawcutt

Dupilumab improves asthma control and quality of life in children with uncontrolled persistent asthma
Alessandro G. Fiocchi (Rome, Italy), Alessandro Fiocchi, Wanda Phipatanakul, Sandy R. Durrani, Jeremy Cole, Xuezhou Mao, Jéréme Msighid, David J. Leaderer, Megan Hardin, Yi Zhang, Aisif H. Khan

A systematic review of the proportion of adolescents recruited to RCTs of asthma treatments for adults and adolescents.
Amy Nuttall (Liverpool, United Kingdom), Amy Nuttall, Emma Wilkinson, William Bedson, Ian Sinha, Paul Mcnemara

Clinical utility of impulse oscillometry (IOS) versus multiple breath washout (MBW) in school-age asthma
Sanna Kjellberg (Trollhättan, Sweden), Anna-Carin Olin, Paul Robinson

Mould in the homes of asthmatic children is associated with socioeconomic deprivation, reduced lung function and unscheduled healthcare visits
Karl Holden (Leicester (Leicestershire), United Kingdom), Kathryn Welsh, Andrew Wardlaw, Jack Satchwell, William Monteiro, Catherine Pashley, Erol Gaillard

Asthma control, exacerbations, airway obstruction and reversibility in children before and after SARS-CoV-2 pandemic onset
Nicole Beydon (Paris, France), Florence Coquelin
Channel 1  Session 415  14:45 - 16:00

Challenging clinical cases: CCC Thoracic oncology

Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in thoracic oncology area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

Disease(s): Thoracic oncology

Tag(s): Clinical

Target audience: Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Radiologist, Pathologist, Nurse, Medical Student

Chairs: Andriani Charpidou (Athens, Greece), Sam Janes (London, United Kingdom)

14:45  Introduction

14:50  An unusual cause of breathlessness
       Stephanie K. Mansell (Guildford (Surrey), United Kingdom)

15:00  Chylo-pneumothorax complicated with re-expansion pulmonary edema and chyluria due to para-spinal neurilemmona
       Sugeshe Wickramasinghe (Kadawath, Sri Lanka)

15:10  Needle based confocal laser endomicroscopy: a novel real-time diagnostic approach for suspected peripheral lung lesions.
       Tess Kramer (Amsterdam, Netherlands)

15:20  Is cystic fibrosis the hemi-neglected part of respiratory medicine?
       Mohd Adil Khan (Nottingham, United Kingdom)

15:30  Mesothelioma in situ with regressive malignant pleural effusion. A year latter
       Gustavo Corrêa De Almeida (São Paulo (SP), Brazil)

15:40  Discussion and Q&A
       All Speakers
Oral presentation: Remote monitoring of respiratory patients

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

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

**Tag(s):** COVID, Digital health

**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Andrea Aliverti (Milan, Italy)

<table>
<thead>
<tr>
<th>OA3941</th>
<th>Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA3942</td>
<td>Initial observed improvement in medication adherence maintained during the COVID-19 pandemic in asthma and COPD</td>
</tr>
<tr>
<td></td>
<td>Meredith Barrett (San Francisco, United States of America), Leanne Kaye, Jared Nagano, Vy Vuong, Meredith Barrett</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3943</th>
<th>Early supported discharge of COVID-19 patients with home oxygen therapy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rosie Harkness (Manchester, United Kingdom), Abdel Hakim Rezgui, Rebecca Towns, Rebecca Lessons, Aimee Lindley, Hou Law, David Thomson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3944</th>
<th>Effects of an eHealth intervention promoting correct use of medication in patients with asthma and chronic obstructive pulmonary disease</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kyna Schnoor (Leiden, Netherlands), Anke Versluis, Robbert Bakema, Sanne Van Luenen, Marcel Kooij, Maurik Van Den Heuvel, Petra Hoogland, Martina Teichert, Job Van Boven, Niels Chavannes, Jiska Aardoom</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3945</th>
<th>Physiological measurements with wearables during urban walks for telemonitoring of patients with COPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Joren Buekers (Barcelona, Spain), Ane Arbillaga-Etxarri, Elena Gimeno-Santos, Guillaume Chevance, Jean-Marie Aerts, Judith Garcia-Aymerich</td>
</tr>
</tbody>
</table>

| OA3946 | Vironix: remote screening, detection, and triage of viral respiratory illness via cloud-enabled, machine-learned APIs. Sumanth Swaminathan (New York, United States of America), Botros Toro, Nicholas Wysham, Nicholas Mark, Sriman Ramanathan, James Morrill, Vinay Konda, Shreyas Iyer, Christopher Landon |

<table>
<thead>
<tr>
<th>OA3947</th>
<th>Engagement with an asthma app to monitor medication adherence and its association with patients’ characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rita Amiral (Porto, Portugal), Cristina Isabel Oliveira Jácome, Rute Almeida, Ana Margarida Pereira, Sandra Mendes, Magna Alves-Correia, Carmen Vidal, Sara López Freire, Paula Méndez Breu, Luís Araujo, Marianta Couto, Dário Antolin-Amérgio, Belén De La Hoz Caballer, Alicia Barra Castro, David Gonzalez-De-Olano, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nicole Pinto, Ana Castro Neves, Ana Palhinha, Filipa Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Lília Maia Santos, Ana Arrobas, Margarida Valério, João Cardoso, Madalena Emiliano, Rita Gerardo, José Carlos Cidrais Rodrigues, Georgea Oliveira, Joana Carvalho, Ana Mendes, Carlos Lozoya, Natacha Santos, Fernando Menezes, Ricardo Gomes, Rita Câmara, Rodrigo Rodrigues Alves, Ana Sofia Moreira, Diana Bordalo, Carlos Alves, Didina Coelho-Barreiro, José Alberto Ferreira, Cristina Lopes, Diana Silva, Maria João Vasconcelos, Maria Fernanda Teixeira, Manuel Ferreira-Magalhães, Luis Taborda-Barata, Maria José Cálix, Adaelde Alves, João Almeida Fonseca</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3948</th>
<th>Assessment of patient engagement and adherence with once-daily indacaterol/glycopyrronium/mometasone (IND/GLY/MF) Breezhaler digital companion in asthma: interim analysis from Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Holger Woehrle (Ulm, Germany), Paul Mastoridis, David A Stempel, Leanne Kaye, Connelly Doan, Karen Mezzi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3949</th>
<th>Remote monitoring of patients with COPD using a tablet system: proof of concept.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Malte Ferchies (Göteborg, Sweden), Kristina Andelid, Anita Nordenson, Anders Andersson, Monika Crona, Daan Dohmen, Anders Ullman, Lowie G.W. Vanfleteren</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3950</th>
<th>Roll-out of video-supported treatment in Moldova to promote people-centered model of care</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cristina Celan (Chisinau, Republic of Moldova), Stela Bivoly, Valentina Vîlchi, Sofia Alexandru, Lilian Severin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3951</th>
<th>Late Breaking Abstract - Fully automated airway measurement correlates with radiological disease progression in Idiopathic Pulmonary Fibrosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom), Michael Roberts, Kirl Kirov, Tom Mecllan, Evan Morgan, Fahdi Kanavati, Darren Gallagher, Philip Molyneaux, Carola-Bibane Schönlieb, Alessandro Ruggiero</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OA3952</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Speakers</td>
</tr>
</tbody>
</table>
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Respiratory critical care, Airway diseases

Method(s): Respiratory intensive care, Physiology, Epidemiology, Endoscopy and interventional pulmonology, General respiratory patient care, Pulmonary function testing

Chairs: Theodore Dassios (London, United Kingdom), Anna Lavizzari (Milano (MI), Italy)

OA3953 Introduction

OA3954 Feasibility of assessing ventilation inhomogeneity by volumetric capnography during resuscitation of preterm infants
Emma Williams (London, United Kingdom), Emma Williams, Theodore Dassios, Anne Greenough

OA3955 Prediction of infant extubation success using the diaphragmatic electromyography (EMG) signal during a spontaneous breathing test (SBT)
Fahad Muhamed Shareef Arattu Thodika (London, United Kingdom), Emma Williams, Imogen Chappelow, Theodore Dassios, Anne Greenough

OA3956 Long term lung function in those born of multiple versus singleton pregnancies
Christopher Harris (London, United Kingdom), Alan Lunt, Janet Peacock, Anne Greenough

OA3957 Influence of breathing dynamics on the effective concentration of oxygen delivered to infants via high-flow nasal cannula
Sotirios Fouzas (Patras, Greece), Aris Bertzouanis, Gabriel Dimitriou

OA3958 Effect of upper airways during non-invasive high frequency oscillatory ventilation (nHFOV)
Davide Bizzotto (Milano (MI), Italy), Chiara Veneroni, Daniele Bani, Raffaele L. Dellacà

OA3959 Influence of antenatal corticosteroids and sex on the mortality and morbidity of extremely pretermly born infants.
Rebecca Lee (London, United Kingdom), Emma Williams, Theodore Dassios, Anne Greenough

OA3960 Neurally adjusted ventilatory assist (NAVA) in very preterm infants: A single tertiary neonatal unit’s experience.
Sandeep Shetty (London, United Kingdom), Sandeep Shetty, Katie Evans, Anay Kulkani, Peter Cornuald, Donovan Duffy, Anne Greenough

Health status of newborns from mothers with severe uncontrolled bronchial asthma
Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Olga Prikhodko, Valerii Voitsekhovsky, Elena Romantsova, Valentina Pavlenko

OA3961 Late Breaking Abstract - Lung function trajectories in very preterm infant
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Abdulrahman Abdelfattah, Raffaele Dellaca, Maria Luisa Ventura

OA3962 Late Breaking Abstract - Less invasive surfactant administration (LISA) to preterm infants on high flow nasal cannula (nHFT).
Asad Nasim (Maidenhead, United Kingdom), Sanja Zivanovic, Muhammad Abubakar, Alexandra Scrivens, Charles Roehr

OA3964 Discussion
All Speakers

Channel 4 Session 418 14:45 - 16:15

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

Tag(s): COVID

Chairs: Adrian Ceccato (barcelona, Spain), Kylie Belchamber (Birmingham, United Kingdom)

OA3965 Introduction

OA3966 Acute and sustained endothelial damage in COVID-19
Raul Méndez (Valencia, Spain), Paula González-Jiménez, Ana Latorre, Mónica Piqueras, Leyre Bouzas, Katheryn Yépez, Ana Ferrando, Enrique Zaldívar-Olmeda, Antonio Moscardó, Ricardo Alonso, Soledad Reyes, Rosario Menéndez
**Rapid diagnosis of bacterial co-infection and antimicrobial resistance in patients with SARS-Cov-2 infection**
Hollian Richardson (Dundee, United Kingdom), Jane MacCallum, Kerry Falconer, Diane Cassidy, Merete Long, Holly R Keir, Yan Hui Giam, Lilia Delgado, Thomas PEMbridge, Benjamin Parcell, Steven Haynes, Hani Abo-Leyah, David Connell, James D Chalmers

**Post-mortem minimally invasive tissue sampling and clinico-pathological correlation in fatal COVID-19 infection**
Animesh Ray (Kolkata (West Bengal), India), Naveet Wig, Deepali Jain, Prasenjit Das, Sudheer Arava, Geetika Singh, Shubham Agarwal, Ayush Goel, Shekhar Swaroop

**Tofacitinib versus standard care treatment in patients with COVID-19 pneumonia and respiratory failure: a multicenter cohort study**
Michael Brovko (Moscow, Russian Federation), Larisa Akulkina, Nikolay Bulanov, Pavel Novikov, Anastasia Zykova, Viktoria Sholomova, Alexey Moiseev, Anastasia Schepalina, Aram Kithalian, Natalia Chichkova, Victor Fomin, Sergey Avdeen, Natalia Trushenko, Sergey Moiseev

**Symptom Prediction and Mortality Risk Calculation for COVID-19 Using Machine Learning**
Nahal Mansouri (Lausanne, Switzerland), Elham Jamshidi, Sahand Rahi

**Type 1 inflammatory endotype relates to low compliance, lung fibrosis, and severe complications in COVID-19**
Takehiro Hasagawa (Hamburg, Germany), Atsushi Nakagawa, Kohjin Suzuki, Kazuto Yamashita, Saya Yamashita, Niina Iwanga, Eiya Yamada, Kenta Noda, Keisuke Tomii

**Comparison of COVID-19 mortality at the first and second wave adjusted for the 4C mortality score**
Pierre-Olivier Bridevaux (Sion, Switzerland), Gregoire Gex, Isabelle Freesard, Petrut Vremaroiu, Niels Gobin, David Lawi, Redouane Bouali

**Introduction**

- **Mineral exposures in pediatric sarcoidosis**

- **Associations between occupational and environmental exposures and organ involvement in sarcoidosis: a retrospective case-case analysis**
  Steven Ronsmans (Leuven, Belgium), Eline Vandebroek, Stephan Keirshilck, Benoit Nemery, Peter H.M. Hoet, Steven Vanderschueren, Wil M. Wuysts, Jonas Yserbyt

- **mTORC1 signaling in granulomatous lesions is not specific for sarcoidosis**
  Raisa Kraaijvanger (Nieuwegein, Netherlands), Els Beijer, Cees A. Seldenrijk, Jan Damen, Marcel Veltkamp

- **Polymorphism in C-C Chemokine Receptor 5 (CCR5) increases susceptibility to Löfgren’s syndrome and alters receptor expression as well as functional response.**

**Session 419 14:45 - 16:15**

**Oral presentation: Better understanding of sarcoidosis: new keys**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** Epidemiology  General respiratory patient care  Physiology  Cell and molecular biology

**Chairs:** Paolo Spagnolo (Padova (PD), Italy), Catharina Moor (Rotterdam, Netherlands)

**OA3976**

**Introduction**

**OA3977**

**Mineral exposures in pediatric sarcoidosis**

**OA3978**

**Associations between occupational and environmental exposures and organ involvement in sarcoidosis: a retrospective case-case analysis**
Steven Ronsmans (Leuven, Belgium), Eline Vandebroek, Stephan Keirshilck, Benoit Nemery, Peter H.M. Hoet, Steven Vanderschueren, Wil M. Wuysts, Jonas Yserbyt

**OA3979**

**mTORC1 signaling in granulomatous lesions is not specific for sarcoidosis**
Raisa Kraaijvanger (Nieuwegein, Netherlands), Els Beijer, Cees A. Seldenrijk, Jan Damen, Marcel Veltkamp

**OA3980**

**Polymorphism in C-C Chemokine Receptor 5 (CCR5) increases susceptibility to Löfgren’s syndrome and alters receptor expression as well as functional response.**
Bioinformatic identification of orthologous granuloma formation genes in Cutibacterium acnes associated with sarcoidosis
Yordan Hodzhev (Sofia, Bulgaria), Borislava Tsafarova, Vladimir Tolchkov, Stefan Panaiotov

The pulmonary bacterial and fungal microbiota in sarcoidosis patients.
Kristel Svalland Knudsen (Bergen, Norway), Sverre Lehmann, Rune Nielsen, Solveig Tangedal, Einar Marius Hjellestad Martinsen, Tomas Eagan

FeV1 and body weight weight on LCQ in sarcoidosis patients
Bjoern Frye (Freiburg, Germany), Daniel Soriano, Erik Farin, Joachim Müller-Quernheim, Jonas Schupp

Effects of Infliximab on FDG Uptake and Small Fiber Neuropathy Symptoms in Sarcoidosis Patients
Lisette Raasing (Nieuwegein, Netherlands), Oscar Vogels, Marcel Veltkamp, Jan Grutters

Long-term response to prednisone in newly treated patients with pulmonary sarcoidosis
Vivienne Kahmann (Rotterdam, Netherlands), Catharina C. Moor, Caroline E. Broos, Johannes C. C. M. In ’T Veen, Maria J. Overbeek, Marco J. J. H. Grootenboers, Roxane Heller, Rémy L. Mostard, Marlies S. Wijsenbeek

Late Breaking Abstract - Immunomodulatory protein ATYR1923 disrupts an in vitro model of sarcoid granuloma formation
Suzanne Paz (San Diego, United States of America), Mark W. Julian, David Siefker, Erik Escobedo, Clara Polizzi, Michaela Ferrer, Lauren Guy, Christoph Burkart, Ryan Adams, Leslie Nangle, Elliott D. Crouser

Discussion
All Speakers

Symposium: Emerging imaging biomarkers in lung disease

Aims: To present information on imaging methods including positron emission tomography (PET), computed tomography (CT), magnetic resonance imaging (MRI) and micro-CT; to present translational human and animal studies that have identified novel imaging biomarkers for assessment of fibrosis and inflammation.

Disease(s): Airway diseases, Interstitial lung diseases

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

Tag(s): Translational, Clinical

Target audience: Clinical researcher, Medical Student, Pathologist, Patient, Radiologist, Scientist (basic, translational)

Chairs: Silke Meiners (Sülfeld, Germany), Katerina Antoniou (Heraklion, Greece)

14:45 Introduction

14:50 Emerging diagnostics from MRI, PET and CT studies of lung disease
James Eaden (Sheffield (South Yorkshire), United Kingdom)

15:05 Preclinical models and imaging biomarkers of lung injury and disease
Irma Mahmutovic Persson (Lund, Sweden)

15:20 Micro-computed tomography to quantify lung fibrosis in vivo
Greetje Vande Velde (Leuven, Belgium)

15:35 Novel imaging biomarkers for assessment of lung fibrosis and inflammation
Joseph Jacob (London, United Kingdom)

15:50 Discussion and Q&A
All Speakers

Lungs on fire: LoF Airway diseases?

Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.
**Studio London**  
**Session 422**  
14:45 - 16:15

Symposium: Orphan childhood disease: nicotine and cannabis addiction

**Aims:** To review the epidemiology and trends of tobacco, e-cigarette and cannabis use worldwide, highlighting the combinatorial use of these products and multiple delivery devices; to discuss the context of and motivation for cannabis use among young people; to explain the definition of problematic cannabis use and current evidence about cannabis psychoactivity and the impact of early cannabis use in the immature brains of children and teenagers; to review the types and effectiveness of preventative measures and treatments for nicotine and cannabis use among young people; to present evidence about the health effects of cannabis and e-cigarettes in young people and the implications for lung development and function; to stress the need for effective regulation to prevent young people accessing these products and being exposed to related marketing.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs:** Jonathan Grigg (London, United Kingdom), Alexander Möller (Zürich, Switzerland)

**14:45**  
**Introduction**

**14:50**  
**Presentation of cases by the session facilitator**
Dave Singh (Manchester, United Kingdom)

- **Case 1 - Author:** Anna Boehm, Austria
- **Case 2 - Author:** Michael Joachim Fröhlich, Germany
- **Case 3 - Author:** Elisa Riccardi, Italy
- **Case 4 - Author:** Khaing Thu Thu, United Kingdom

**16:10**  
**Session wrap-up**
Aims: To describe current knowledge of obstructive sleep apnoea (OSA) from epidemiology to new classifications, treatment and prevention; to explain how clinicians could face the future of sleep breathing disorders (SBDs) in light of new technologies; to identify strategies for a homogenous European approach to the identification, diagnosis and management of sleep breathing disorders, presenting the Sleep Revolution project of the European Union.

Disease(s): Paediatric respiratory diseases  Respiratory critical care  Sleep and breathing disorders

Method(s): Epidemiology  General respiratory patient care  Physiology

Tag(s): Clinical, Digital health

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

Chairs: Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Basel, Switzerland)

14:45 Introduction

14:50 Is the apnoea-hypopnea index more than a historical parameter?
Dirk A.A. Pevernagie (Gent, Belgium)

15:05 The hypoxic burden during sleep: which parameter counts?
Silke Ryan (Dublin, Ireland)

15:20 An integrative approach to OSA classification
Winfried J. Randerath (Solingen, Germany)

15:35 An homogenous European approach for SBD management, incorporating new technologies and the Sleep Revolution project
Erna Sif Arnardóttir (Reykjavik, Iceland)

15:50 Discussion and Q&A
All Speakers

Studio Paris  Session 424  14:45 - 16:15

Respiratory medicine meets other disciplines: Emerging data for the management of respiratory tract infections
A joint ERS/ESCMID session. Results from the current European Clinical Research Initiative on Antimicrobial resistance and emerging Infectious Diseases (ECRAID) - Value-Dx project

Aims: To present the first data emerging from the European project of Value Dx aimed at investigating the use of old and new diagnostic tests to optimise the use of antimicrobials and the management of respiratory infections across different settings (from primary care to intensive care units); to provide an overview and update of the role of diagnostics in the management of respiratory infections by reducing the overuse of antimicrobials and optimising clinical outcomes, utilisation of healthcare resources and economics. The Value Dx project is part of the European clinical research initiative on antimicrobial resistance and emerging infectious diseases.

Disease(s): Respiratory infections

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

Tag(s): Clinical, COVID

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Journalist

Chairs: Giovanni Sotgiu (Porto Torres (SS), Italy), Miriam Barrecheguren Fernandez (Barcelona, Spain)

14:45 Introduction

14:50 Potential impact and relevance of diagnostics in the management of respiratory tract infections: from COVID to hospital-acquired pneumonia
Maurizio Sanguinetti (Rome, Italy)

15:05 Use of diagnostic tests in respiratory tract infections: an economic analysis.
Maarten Postma (Groningen, Netherlands)

Evelina Tacconelli (Italy)

15:35 Are antimicrobials still the future of respiratory infection therapy?
Stefano Aliberti (Milano (MI), Italy)

15:50 Discussion and Q&A
All Speakers
Oral presentation: Severe acute respiratory failure

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Respiratory critical care

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

Tag(s): COVID

Chairs: Leo Heunks (Amsterdam, Netherlands), Antonio Artigas (Sabadell (Barcelona), Spain)

OA4019 Introduction

OA4020 Comparison of extubation outcome after spontaneous breathing trials with T-piece and pressure support ventilation in patients with expiratory flow limitation
Yanisa Kluanwan (Bangkok, Thailand), Tepha Kongpolprom

OA4021 Validation of Prognostic Scores in Extracorporeal Life Support: A Multi-Centric Retrospective Study
Christoph Fisser (Regensburg, Germany), Luis Alberto Rincon-Gutierrez, Tone Bull Enger, Fabio Silvio Taccone, Lars Mikael Broman, Mirko Belliato, Leda Nobile, Federico Pappalardo, Maximilian V. Malferttheiner

OA4022 Tracheostomy Practice and Outcomes in Patients with COVID–19 ARDS – insights from PROVENT–COVID
Anissa Tsonas (Amsterdam, Netherlands), Michela Botta, Janneke Horn, Michael Brenner, Martita Teng, Brendan Mcgrath, Marcus Schultz, Frederique Paulus, Arno Serpa Neto

OA4023 Electrical impedance tomography monitoring for predicting lung collapse after positive end expiratory pressure decrement in recovering acute respiratory distress syndrome
Thunyawee Sermkaew (Bangkok, Thailand), Noppapa Kongpolprom

OA4024 Development and validation of a point of care breath test for octane detection

OA4025 ROX index validity for predicting mechanical ventilation requirement in pneumonia
Manuela Herrera Tamayo (Bogotá, Colombia), Alirio R Bastidas, Karen D. Pedros, Manuela Herrera, German A Carmona, Laura D Saza, Laura E Bello, Carlos A Muñoz, Juan C Chavez, Jennifer C. Arias, Paula Alcaraz, Maria D. Hernandez, Alejandro Nonzoque, Natalia Trujillo, Andres F Pineda, Gina S. Montaño, Luis F Reyes

OA4026 Galectin-3 as predictor of mortality and ICU admission in patients with COVID 19 Acute Respiratory Failure
Andrea Portacci (Taranto, Italy), Fabrizio Diaferia, Carla Santomasi, Federica Barranta, Esterina Boniello, Vincenzo Nicola Valerio, Silvana Dragonieri, Giovanna Elisiana Carpagnano

OA4027 Coinfection in patients with severe COVID-19 requiring ECMO support. A subanalysis of the ECMOVIBER study.
Maria Martinez Martinez (Barcelona, Spain), Pablo Blanco-Schweizer, Pablo Ruiz De Gopegui, Roberto Roncon-Albuquerque Jr., Maria Paz Fuset, Maria Victoria Boado, Elena Sandoval, Ricardo Gimeno, Philip Fortuna, Alfredo González, Joaquín Colomina, Marc Andreu Pedrosa, María Sol Siliato Robles, Francesc Xavier Nuvials Casals, Ricard Ferrer, Jordi Riera

OA4028 Late Breaking Abstract - Cytomegalovirus reactivation in COVID-19 patients with Acute Respiratory Distress Syndrome.
Anupam Agrawal (Lucknow, India), ANUPAM AGRAWAL, Atul Garg, Mohan Gurjar, Ujjjala Ghoshal, Prabhakar Mishra, Akshay Arya, Shreyas Gutte, Gaurav Pandey

OA4029 Discussion
All Speakers

15:30-16:15 INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

Studio Amsterdam Session 427  16:15 - 16:30

Breakout room: Symposium, Emerging imaging biomarkers in lung disease

Chairs: James Eaden (Sheffield (South Yorkshire), United Kingdom), Irma Mahmouti-Persson (Lund, Sweden), Greetje Vande Velde (Leuven, Belgium), Merian Kuipers (Den Haag, Netherlands), Joseph Jacob (London, United Kingdom)
<table>
<thead>
<tr>
<th>Studio Barcelona</th>
<th>Session 428</th>
<th>16:15 - 16:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Lungs on fire, LoF Airway diseases?</td>
<td>Chairs: Dave Singh (Manchester, United Kingdom), Lydia Finney (London, United Kingdom)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio London</th>
<th>Session 429</th>
<th>16:15 - 16:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Symposium, Orphan childhood disease: nicotine and cannabis addiction</td>
<td>Chairs: Charlotte Pisinger (Frederiksborg, Denmark), Ilona Jaspers (Chapel Hill, United States of America), Elif Dagli (Istanbul, Turkey), Lynne Schofield (Leeds, United Kingdom), Aslı Görek Dilekta (Bursa, Turkey)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio Munich</th>
<th>Session 430</th>
<th>16:15 - 16:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: State of the art session, Sleep and breathing disorders</td>
<td>Chairs: Dirk A.A. Pevernagie (Gent, Belgium), Silke Ryan (Dublin, Ireland), Winfried J. Randerath (Solingen, Germany), Erna Sif Arnardóttir (Reykjavik, Iceland), Sébastien Baillieul (Grenoble CEDEX 9, France)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio Paris</th>
<th>Session 431</th>
<th>16:15 - 16:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout room: Breakout room: Respiratory medicine meets other disciplines, Emerging data for the management of respiratory tract infections</td>
<td>Chairs: Maurizio Sanguinetti (Rome, Italy), Evelina Tacconelli (Italy), Stefano Aliberti (Milano (MI), Italy), Aurélie Crabbé (Ghent, Belgium), Maarten Postma (Groningen, Netherlands)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel 1</th>
<th>Session 432</th>
<th>16:30 - 18:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joint session: Hot topics in thoracic oncology</td>
<td>ERS/Industry joint session</td>
<td>Chairs: Torsten Gerriet Blum (Berlin, Germany)</td>
</tr>
<tr>
<td><strong>16:30</strong></td>
<td>Introduction</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
</tr>
<tr>
<td><strong>16:35</strong></td>
<td>Checkpoint inhibition (neo-)adjuvant therapy in early stage lung cancer: the oncological evidence</td>
<td>Karim Vermaelen (Ghent, Belgium)</td>
</tr>
<tr>
<td><strong>16:55</strong></td>
<td>Checkpoint inhibition (neo-)adjuvant therapy in early stage lung cancer: the surgical evidence</td>
<td>Isabelle Opitz (Zurich, Switzerland)</td>
</tr>
<tr>
<td><strong>17:15</strong></td>
<td>Is pathological response a valid surrogate for outcome?</td>
<td>Aurelie Fabre (Dublin 4, Ireland)</td>
</tr>
<tr>
<td><strong>17:35</strong></td>
<td>Discussion and Q&amp;A</td>
<td>Torsten Gerriet Blum (Berlin, Germany), Karim Vermaelen (Ghent, Belgium), Isabelle Opitz (Zurich, Switzerland), Aurelie Fabre (Dublin 4, Ireland)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel 2</th>
<th>Session 433</th>
<th>16:30 - 18:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symposium: Keys to success in science</td>
<td>Early career member session 2021</td>
<td>Chairs: Daniela Gompelmann (Vienna, Austria), Maxime Patout (Mont-Saint Aignan, France)</td>
</tr>
<tr>
<td><strong>16:30</strong></td>
<td>Introduction</td>
<td>4037</td>
</tr>
<tr>
<td><strong>16:35</strong></td>
<td>ERS activities: how to get involved</td>
<td>Niki Ubags (Epalinges, Switzerland)</td>
</tr>
<tr>
<td><strong>16:50</strong></td>
<td>Keys for successful science</td>
<td>Lies Lahousse (Ghent, Belgium)</td>
</tr>
<tr>
<td><strong>17:05</strong></td>
<td>Mina Gaga lecture</td>
<td>Alberto Garcia-Basteiro (Maputo, Mozambique)</td>
</tr>
</tbody>
</table>
**Channel 3**  
**Session 434**  
16:30 - 18:00

**Oral presentation: Respiratory function after COVID-19 and mechanical ventilation**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

**Disease(s):** [Respiratory critical care](#), [Interstitial lung diseases](#), [Pulmonary vascular diseases](#)

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

**Tag(s):** COVID

**Chairs:** Sam Bayat (Grenoble, France), William Stringer (Long Beach, United States of America)

**OA4043**  
**Introduction**

**OA4044**  
**Pulmonary function after COVID-19 infection and the impact of disease severity.**  
Max Thomas (Birmingham, United Kingdom), Ha-Kyeong Won, Oliver Price, Woo-Jung Song, James Hull

**OA4045**  
**Neural respiratory drive in survivors of severe COVID-19 pneumonitis.**  
Caroline Jolley (London, United Kingdom), Rebecca F D'Cruz, Sheron Mathew, Alice Byrne, Mutahhara Choudhury, Tracey Fleming, Gerard F Rafferty, John Moxham, Patrick Murphy, Nicholas Hart, Surinder S Birring, Jimstan Periselneris, Felicity Perrin, Amit Patel, Irem Patel, Michael Waller

**OA4046**  
**The role of 6MWT in Covid-19 follow up**  
Martina Ferioli (Sermide (MN), Italy), Irene Prediletto, Serena Bensai, Sara Betti, Federico Daniele, Valerio Di Sciscio, Cecilia Modolon, Maria Rita Rimondi, Stefano Nava, Luca Fasano

**OA4047**  
**Half of COVID-19 ICU-treated patients have impaired lung function four months after discharge**  
Emil Ekbohm (Uppsala, Sweden), Robert Frithiof, Ossur Emilsson, Ing-Marie Larsson, Miklos Lipscey, Sten Rubertsson, Ewa Wallin, Christer Janson, Michael Hultström, Andrei Malinovschi

**OA4048**  
**The impact of COVID-19 on children with chronic suppurative lung disease**  
Tolulope Tolufase (Lincoln, United Kingdom), Mira Osinibi, Ema Kavaliunaite, Mohammed Thorogood, Atul Gupta, Sarah Pierce, Cara J. Bossley

**OA4049**  
**Pulmonary function 45 and 180 days after COVID-19 hospitalization: does time, in fact, heal all wounds?**  
Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Caroline Marinho, Jacinthe Das Graças Ferreira Oliveira, Aline Priscila Batista, Luiz Gustavo Guimarães Sacramento, Alvaro Lucca Torres Brandão, Savio Carlos Rodrigues Da Silva, Pedro Chaves Ferreira, Ana Sophia Mitre Leite, José Reinaldo Correia Roveda, Bruno Horta Andrade, Tarciane Aline Prata, Daniel Cruz Bretas, Ana Luisa Ribeiro Reis, Ana Maria De Carvalho Oliveira, Gabriel Vinicius Do Carmo Eugênio, Hemilly Romão Moreira, Julia Elias Morato, Pedro Ntônio Oliveira Aquino Gusmão, George Luiz Lins Machado Coelho, Arnaldo Santos Leite, Valeria Maria Augusto

**OA4050**  
**Which severe COVID-19 patients may benefit the most from pulmonary rehabilitation?**  
Mathieu Marillier (Echirolles, France), Yara Al Chikhanie, Daniel Veale, Frédéric Hérent, Samuel Vergès

**OA4051**  
**Association between symptoms and objective physiological outcomes in severe COVID-19 pneumonia survivors**  
Caroline Jolley (London, United Kingdom), Parisa Zamani, Snehah Mehrotra, Rebecca F D'Cruz, Sheron Mathew, Alice Byrne, Mutahhara Choudhury, Tracey Fleming, Sam Norton, Surinder S Birring, Amit Patel, Irem Patel, Felicity Perrin, Michael Waller

**OA4052**  
**Diaphragm neurostimulation on every breath preserves alveolar homogeneity.**  
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Marlena Ornowska, Michelle Nicholas, Jessica Wittmann, Steven Reynolds

**OA4053**  
**Late Breaking Abstract - Lung function before and after COVID-19 infection in young adults**  
Ida Mogensen (Skarpnäck, Sweden), Jenny Hallberg, Sofia Björkander, Qiang Pan-Hammerström, Lena Palmberg, Christer Janson, Anna Bergström, Erik Melen, Inger Kull

**OA4054**  
**Discussion**  
All Speakers
**Channel 4**

**Session 435**

**16:30 - 18:00**

**Oral presentation: Exacerbations of chronic respiratory diseases, including SARS-CoV-2**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** General respiratory patient care  Epidemiology  Imaging  Pulmonary function testing

**Tag(s):** COVID

**Chairs:** Imran Satia (Hamilton, Canada), Florence Schleich (Liège, Belgium)

<table>
<thead>
<tr>
<th>OA4055</th>
<th>Introduction</th>
</tr>
</thead>
</table>

| OA4056 | Asthma hospitalisation and mortality during the first wave of COVID-19  
Steven Smith (Glasgow, United Kingdom), Steven Smith, Alexander Royle, David Jackson, Mark Levy, Nicola Lee, Malcolm Shepherd, Freda Yang, Matthew Armstrong, Liam Heaney, Rekha Chaudhuri |

| OA4057 | SARS-Cov-2 infection in asthma patients treated with biologies  

| OA4058 | A data management and analysis platform for RASP-UK multiomics clinical datasets  
nazanin Zounemat Kermani (hanworth, United Kingdom), John Busby, Kai Sun, Ioannis Pandis, Gabrielle Gainsborough, Yike Guo, Ian Adcock, Tim Hardman, Liam Heaney |

| OA4059 | Association between subcutaneous fat area and risk of asthma exacerbation in obese patients  
Armine Gasparyan (Moscow, Russian Federation), Nathalia Chichkova, Natalia Serova |

| OA4060 | The Cough Severity Diary in a pooled analysis of two, phase 3 trials of gefapixant in chronic cough  
Surinder S. Birring (London, United Kingdom), Jaclyn A. Smith, Alyn Morice, Ian Pavord, Peter V. Dicpinigaitis, Lorcan Mccarvey, Anjela Tzontcheva, Qing Li, Allison Martin Nguyen, Jonathan Schelfhout, David Mucino, Carmen La Rosa |

| OA4061 | How do cough patterns correlate with novel capsaicin cough challenge parameters?  
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Kimberley Holt, Kevin Mcguinness, Kitty Sheppard |

| OA4062 | Chronic cough associated with COPD exacerbation, pneumonia and death: A prospective study of the general population  
Eskild Morten Landt (Koege, Denmark), Yunus Çolak, Børge G Nordestgaard, Peter Lange, Morten Dahl |

| OA4063 | Exacerbations in chronic obstructive pulmonary disease (COPD) in Ontario, Canada  
Erika Penz (Saskatoon, Canada), Stephen Noorduyn, Mena Soliman, Christina Qian, Karissa Johnston, Erika Penz |

| OA4064 | Pulmonary vascular pruning is associated with radiographic bronchiectasis progression  
Wojciech Dolliver (BROOKLINE, United States of America), Wojciech Dolliver, Wei Wang, Pietro Nardelli, Farbod N. Rahaghi, Diego J. Maselli, Andrew Yen, Kendra Young, Gregory Kinney, Raul San José Estépar, Alejandro A. Diaz |

| OA4065 | Late Breaking Abstract - Lung function tests in patients with previous SARS-COV2 pneumonia: a useful follow-up tool  
Manuela Ciarfaglia (Brescia, Italy), Laura Pini, Rossano Montori, Jordan Giordani, Alessandro Pini, Michele Guerini, Nicla Orzes, Claudio Tantucci |

| OA4066 | Discussion  
All Speakers |

**Channel 5**

**Session 436**

**16:30 - 18:00**

**Oral presentation: Paediatric bronchology**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.
Disease(s) : Airway diseases

Method(s) : Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Pulmonary function testing  Respiratory intensive care

Chairs : Dirk Schramm (Düsseldorf, Germany), Raffaella Nenna (Rome, Italy)

OA4067  Introduction

OA4068  Is there an association between tracheomalacia and bronchiectasis in children?
Rahul Thomas (Brisbane (QLD), Australia), Anne Chang, Ian Masters, Keith Grimwood, Julie Marchant, Stephanie Yerkovich, Mark Chatfield, Chris O’Brien, Vikas Goyal

OA4069  Diffuse alveolar haemorrhage in children: an international multicentre study

OA4070  Prevalence and characteristics of cystic lung lesions in children with interstitial lung diseases – a register-based study
Stanislaw Boguslawski (Warszawa, Poland), Katarzyna Krenke, Emilia Urbanskewska, Joanna Lange, Honorata Marczak, Matthias Griese

OA4071  Pulmonary involvement in rheumatological diseases in children
Pelin Asfuroglu (Ankara, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Sevcan Bakkaloğlu Ezgu, Oguz Soylmezoglu

OA4072  Respiratory function testing in infants with laryngeal stridor: diagnosis at a glance and follow up.
Silvia Bloise (Roma (RM), Italy), Raffaella Nenna, Laura Petrarca, Antonella Frassanito, Enrica Mancino, Luigi Matera, Greta Di Mattia, Domenico Paolo La Regina, Flaminia Bonci, Alessandra Febbro, Fabio Midulla

OA4073  Incidence and prevalence of children’s diffuse lung disease in Spain.
Alba Torrent Vernetta (Castelldefels (Barcelona), Spain), Sandra Rovira-Amigo, Ignacio Iglesias Serrano, Ana Diez Isquierdo, Matthias Griese, Christina Rapp, Mirella Gaboli, Silvia Castillo-Corullon, Pedro Mondejar-Lopez, Verónica Sanz Santiago, Jordi Costa-Colomer, Borja Osona, Javier Torres-Borrego, Olga De La Serna Blázquez, Sara Bellon Alonso, Pilar Caro Aguilera, Álvaro Gimeno-Diaz De Atauri, Alfredo Valenzuela Soria, Roser Ayats, Carlos Martin De Vicente, Valle Velasco Gonzalez, Jose Domingo Moure Gonzalez, Antonio Moreno-Galdo

OA4074  Evaluation of paediatric airway with flexible bronchoscopy in intensive care units
Merve nur Tekin (Ankara, Turkey), Gizem Özcan, Fazilcan Zirek, Özlem Selvi Can, Nazan Çobanoğlu

OA4075  Discussion
All Speakers

16:30-17:15
INDUSTRY SKILLS LAB WORKSHOP  SEE PAGE 1

Studio Amsterdam  Session 438  16:30 - 18:00

Journal session: Interstitial lung diseases: from disease mechanisms to novel treatment options
A joint ERS/Lancet session

Aims : To provide new insights into disease pathogenesis; to highlight the clinical promise of disease biomarkers; to consider current diagnostic approaches; to describe the range of treatment options available or being developed for patients with interstitial lung disease; to set out future directions for research and clinical practice.

Disease(s) : Interstitial lung diseases

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Scientist (basic, translational)

Chairs : Silke Meiners (Sülfeld, Germany), Katerina Antoniou (Heraklion, Greece)

16:30  Introduction
Rebecca Craven (London, United Kingdom)

16:35  Disease pathology in interstitial lung disease
Elisabetta Renzoni (London, United Kingdom)
16:50  Biomarker discovery, development, and implementation in interstitial lung diseases
Gisli Jenkins (London, United Kingdom)  
17:05  Early diagnosis of fibrotic interstitial lung disease: challenges and opportunities
Paolo Spagnolo (Padova (PD), Italy)  
17:20  Treatment of interstitial lung diseases: current approaches and future directions
Kerri Johannson (Calgary (AB), Canada)  
17:35  Discussion and Q&A
All Speakers  
17:55  Conclusions
Rebecca Craven (London, United Kingdom)  

Studio Barcelona  
Session 439  
16:30 - 18:00
Grand round: Clinical challenges beyond guidelines
Aims: To describe controversial aspects of the current guidelines for non-invasive respiratory support, asthma, management of solitary pulmonary nodules and imaging of pulmonary hypertension; to discuss data underpinning non-adherence and alternative approaches to ongoing recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern and to highlight the need for further research.

Disease(s): Respiratory critical care, Airway diseases, Thoracic oncology, Pulmonary vascular diseases
Method(s): General respiratory patient care, Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, General practitioner, Medical Student, Radiologist, Physician in Pulmonary Training, Clinical researcher
Chairs: Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Nicolas Roche (Paris, France), Carolina Maria Gotera Rivera (Madrid, Spain)

16:30  Introduction

16:35  Noninvasive respiratory support in the hypoxaemic perioperative/periprocedural patient: joint ESA/ESICM guideline
Lise Piquilloud (Lausanne, Switzerland)  
16:55  Deconstructing the GINA staircase: the new house of asthma
Paul O'Byrne (Hamilton (ON), Canada)  
17:15  Self-oriented interpretation of guidelines for management of solitary pulmonary nodules. ACR, ACCP, BTS and Fleischner: a “pot pourri” that may miss occult cancer?
Stefano Elia (Roma (RM), Italy)  
17:35  Imaging of pulmonary hypertension in adults: a position paper from the Fleischner Society
David Kiely (Sheffield (South Yorkshire), United Kingdom)  
17:55  Session wrap-up

Studio London  
Session 440  
16:30 - 18:00
Hot topics: The environment and climate change effects on lung health across the lifecourse
Aims: To answer crucial open questions about the causal relationships between adverse environmental exposures and respiratory outcomes, their interplay and elaborate strategies in order to decrease the burden of resulting respiratory diseases; to explore the interactions of poverty and environmental exposures as an additional “new” risk for respiratory health, both in low-middle, and high-income countries; to present new WHO Air Quality Guidelines (AQG), which are based on the expert evaluation of the latest scientific evidence on the health effects of air pollution.; to discuss what potential implications the new WHO AQG will have on the air quality legislation in EU, which is in the heart of European Green Deal, and how respiratory clinicians can use the new Guideline in their clinical work, in increasing awareness of air pollution health effects among their patients and clinicians, as well as in translation of this knowledge to relevant authorities demanding cleaner air quality policies.

Disease(s): Airway diseases, Paediatric respiratory diseases, Respiratory infections
Method(s): Epidemiology, Public health
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Thoracic oncologist, Respiratory therapist, Journalist
### Studio Munich

**Session 441**  
16:30 - 18:00

**Symposium: What is new for sleep apnoea? The European perspective: findings from the European Sleep Apnoea Database (ESADA)**

**Aims:** To provide new insights from the results of the ongoing Clinical Research Collaboration from the European Sleep Apnoea Database big data analysis and its importance to challenging traditional obstructive sleep apnoea (OSA) stereotypes with the aims of preventing disease and achieving early disease identification; to emphasise the need to use new technologies for diagnosis and early identification of residual daytime sleepiness and treatment follow-up, especially in terms of driving safety and difficult situations such as endemics and pandemics; to identify future research directions and their clinical implications; to emphasise the importance of European networking in general and for early career members.

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

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

**Tag(s):** Clinical  

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist  

**Chairs:** Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Basel, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
<td></td>
<td>4097</td>
</tr>
<tr>
<td>16:35</td>
<td>Cluster analysis of clinical phenotypes of OSA and its implications for comorbidities</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
<td>4098</td>
</tr>
<tr>
<td>16:50</td>
<td>Mild sleep apnoea: the hidden base of the iceberg?</td>
<td>Walter McNicholas (Dublin, Ireland)</td>
<td>4099</td>
</tr>
<tr>
<td>17:05</td>
<td>Residual daytime sleepiness and its implications</td>
<td>Maria Bonsignore (Palermo, Italy)</td>
<td>4100</td>
</tr>
<tr>
<td>17:20</td>
<td>Controversies in OSA: causes and future directions</td>
<td>Patrick Lévy (Grenoble, France)</td>
<td>4101</td>
</tr>
<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4102</td>
</tr>
</tbody>
</table>

### Studio Paris

**Session 442**  
16:30 - 18:00

**Symposium: Community-acquired pneumonia: the new perspective in the post-COVID era**

Update on pneumonia including critical analysis of the new guidelines and new diagnostic and therapeutic options in light of recent experience with COVID-19 pneumonia

**Aims:** to update health professionals dealing with pneumonia about recent guidelines, the new challenges of viral pneumonia that emerged during the COVID-19 pandemic and advances in new diagnostic and therapeutic options.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
<td></td>
<td>4097</td>
</tr>
<tr>
<td>16:35</td>
<td>Cluster analysis of clinical phenotypes of OSA and its implications for comorbidities</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
<td>4098</td>
</tr>
<tr>
<td>16:50</td>
<td>Mild sleep apnoea: the hidden base of the iceberg?</td>
<td>Walter McNicholas (Dublin, Ireland)</td>
<td>4099</td>
</tr>
<tr>
<td>17:05</td>
<td>Residual daytime sleepiness and its implications</td>
<td>Maria Bonsignore (Palermo, Italy)</td>
<td>4100</td>
</tr>
<tr>
<td>17:20</td>
<td>Controversies in OSA: causes and future directions</td>
<td>Patrick Lévy (Grenoble, France)</td>
<td>4101</td>
</tr>
<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td>4102</td>
</tr>
</tbody>
</table>
**Disease(s):** Respiratory critical care, Respiratory infections

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

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training

**Chairs:** Giovanni Sotgiu (Porto Torres (SS), Italy), Miriam Barrecheguren Fernandez (Barcelona, Spain)

**16:30** Introduction

**16:35** Rethinking the guidelines after COVID-19
   Ignacio Martin-Loeches (Dublin, Ireland)

**16:50** The challenges of viral pneumonia in the post-COVID era
   Carolina García-Vidal (, Spain)

**17:05** Advances in diagnostic tools for lower respiratory tract infections
   Cristina Prat Aymerich (Badalona (Barcelona), Spain)

**17:20** Antimicrobial resistance and new therapeutic options
   Kristina Crothers (Seattle, United States of America)

**17:35** Discussion and Q&A
   All Speakers

---

**Channel 6**

**Session 443**

**16:30 - 18:00**

**Oral presentation: Late breaking basic and translational science of SARS-CoV2 and COVID-19**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** Cell and molecular biology, Respiratory intensive care, General respiratory patient care, Pulmonary function testing, Imaging, Physiology, Pulmonary rehabilitation

**Tag(s):** COVID

**Chairs:** Sabine Bartel (Groningen, Netherlands), H. Irene Heijink (Groningen, Netherlands)

**OA4109** Introduction

**OA4110** Late Breaking Abstract - SARS-CoV-2 induces hyperinflammation in human macrophages via TLR4
   Sabina Sahanic (Innsbruck, Austria), Richard Hilbe, Judith Löffler-Ragg, Günter Weiss, Doris Wilflingseder, Wilfried Posch, Ivan Tancevski

**OA4111** Late Breaking Abstract - ACE2 Overexpression Modulates Nicotine Receptors In Cell Type Specific Manner: Possible Relevance In Covid-19
   Tamires Alves Nunes (Santos, Brazil), Cynthia Bartholomeo, Tiago Nicoliche, Roberta Lemes, Nathalia Pinheiro, Wothan Tavares-De-Lima, Iolanda Tiberio, Ayman Hamouda, Kil Lee, Rodrigo Ureshino, Roberta Stilhano, Carla Prado

**OA4112** Late Breaking Abstract - Antagonizing COVID19-induced GPR4 alleviates lung and kidney injury
   Muriel Lizé (Wuppertal, Germany), Lioba Kochbeck, Vera Duestherus, Carolin Ebert, Sigrid Horstmann, Karoline Droebner, Martina V. Schmidt

**OAA113** Late Breaking Abstract - MicroRNA signatures in critically ill COVID-19 patients: a bronchial aspirate study
   Marta Moliner García (Lleida, Spain), Iván D. Benitez, Jessica González, Clara Gort-Paniello, Anna Moncusi-Mox, Fátima Rodríguez-Jara, María C. García-Hidalgo, Gerard Torres, Jose J Vengoechea, Silvia Gómez, Ramón Cabo, Jesús Caballero, Jesús F. Bermejo-Martin, Adrián Ceccato, Laa Fernández-Barat, Ricard Ferrer, Dario García-Gasulla, Rosario Menéndez, Ana Motos, Oscar Peñuelas, Jordi Riera, Antoni Torres, Ferran Barbé, David De Gonzalo-Calvo

**OA4114** Late Breaking Abstract - Increased Substance P levels in COVID-19 hospitalized patients
   Sandra Smieszek (Washington, United States of America)

**OA4115** Late Breaking Abstract - Effect of hydrogen therapy on the proteomic profile of exhaled breath condensate after recovery from COVID-19
   Alexey Kononikhin (Moscov, Russian Federation), Anna Ryabokon, Anna Kozyr, Natalia Zakharova, Maria Indeykina, Alexander Brzhozovskyi, Ludmila Shogenova, Eugene Nikolaev, Sergey Varfolomeev, Alexander Chuchalin
Late Breaking Abstract - MicroRNA profiling informs on the pulmonary sequelae of COVID-19-induced ARDS

María C García-Hidalgo (Lleida, Spain), Iván D. Benítez, Manel Pérez-Pons, Jessica González, Paola Carmona, Sally Santistevé, Clara Gort-Paniello, Anna Moncusí-Moix, Fátima Rodríguez-Jara, Marta Molinero, Gerard Torres, Jesús F. Bermejo-Martín, Adrián Ceccato, Laia Fernández-Barat, Ricard Ferrer, Dario García-Casulla, Rosario Menéndez, Ana Motos, Óscar Peñuelas, Jordi Riera, Antoni Torres, Ferrán Barbé, David De Gonzalo-Calvo

Late Breaking Abstract - Monocyte-derived macrophages display an inflammatory memory several months post SARS-CoV-2 infection

Julia Esser-von Bieren (Munich, Germany), Sina Bohnacker, Franziska Hartung, Fiona Henkel, Alessandro Quaranta, Johan Kolmert, Alina Priller, Paul Lingor, Adam Chaker, Percy Knolle, Carsten Schmidt-Weber, Craig Wheelock, Julia Esser-von Bieren

Late Breaking Abstract - Characterization of the immunological profile of COVID-19 patients and correlation of CD4+ and CD8+ T lymphocytes with disease severity during hospitalization.

Kalliopi Domvri (Thessaloniki, Greece), Kalliopi Domvri, Ioanna Tsiouprou, Apostolis Apostolopoulos, Maria Hadzimitrova, Ioanna Fillipou, Athanasia Pataka, Spyridon Gougousis, Theodoros Kontakiotis, Despoina Papakosta, Evangelia Fouka, Konstantinos Porpodis

Late Breaking Abstract - A randomised, double-blind, placebo controlled, clinical trial evaluating imatinib in patients with severe COVID-19


Discussion

All Speakers

17:30-18:15

INDUSTRY SKILLS LAB WORKSHOP

SEE PAGE 1
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15-19:15</td>
<td><strong>INDUSTRY VIRTUAL SYMPOSIUM</strong> SEE PAGE 1</td>
</tr>
<tr>
<td>20:00-21:30</td>
<td><strong>INDUSTRY VIRTUAL SYMPOSIUM</strong> SEE PAGE 1</td>
</tr>
</tbody>
</table>

Breakout room: Symposium, Community-acquired pneumonia: the new perspective in the post-COVID era

**Chairs:** Ignacio Martin-Loeches (Dublin, Ireland), Carolina García-Vidal (Spain), Cristina Prat Aymerich (Badalona (Barcelona), Spain), Kristina Crothers (Seattle, United States of America), Aurélie Crabbé (Ghent, Belgium)
Knowledge café: Challenges raised by COVID in early career respiratory professional training

**Aims:** To understand the major challenges experienced by early career professionals on their training due to COVID19, determine which support systems are required for the training of early career professionals affected by COVID19, understand the needs of early career professionals in the aftermath of COVID19, understand the role of institution leadership/faculty in the support of training for early career professionals affected by COVID19.

**Chairs:** Sheila Ramjug (Altrincham, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:15</td>
<td>Challenges raised by COVID in early career respiratory professional training - moderated discussion</td>
<td>Maxime Patout (Mont-Saint Aignan, France), Mareike Lehmann (München, Germany), Sheila Ramjug (Altrincham, United Kingdom)</td>
</tr>
<tr>
<td>08:45</td>
<td>Interactive questions and answers</td>
<td>Maxime Patout (Mont-Saint Aignan, France), Mareike Lehmann (München, Germany), Sheila Ramjug (Altrincham, United Kingdom)</td>
</tr>
</tbody>
</table>

Knowledge café: How to engage with patient organisations?

**Aims:** To explain when interactions with patient organisations are important, understand how to effectively speak with patients, understand the importance of the patient perspective for both clinical and basic/translational studies.

**Chairs:** Cristina Ardura-Garcia (Bern, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:15</td>
<td>Engaging with patient organisations - moderated discussion</td>
<td>Kjeld Hansen (Oslo, Norway), Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Eva Sophie Lunde Pedersen (Bern, Switzerland)</td>
</tr>
<tr>
<td>08:45</td>
<td>Interactive questions and answers</td>
<td>Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Kjeld Hansen (Oslo, Norway), Cristina Ardura-Garcia (Bern, Switzerland), Eva Sophie Lunde Pedersen (Bern, Switzerland)</td>
</tr>
</tbody>
</table>

Knowledge café: Mobility as an early career respiratory professional

**Aims:** To understand the influence of a national/international change of institution on your personal and career development, review the alternatives to mobility requirements for grant applications, explain how to find a suitable host institution for a stay abroad.

**Chairs:** Niki Ubags (Epalinges, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:15</td>
<td>Mobility as an early career respiratory professional - moderated discussion</td>
<td>Rory Morty (Heidelberg, Germany), Niki Ubags (Epalinges, Switzerland)</td>
</tr>
<tr>
<td>08:45</td>
<td>Interactive questions and answers</td>
<td>Niki Ubags (Epalinges, Switzerland), Rory Morty (Heidelberg, Germany)</td>
</tr>
</tbody>
</table>

Knowledge café: How to effectively publish scientific work?

**Aims:** To understand how to prepare your manuscript, explain the importance of your cover letter, explain how to effectively respond to reviewer comments, understand how to effectively interact with the editors.

**Chairs:** Holly Rachael Keir (Dundee (Angus), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:15</td>
<td>Effectively publishing scientific work - moderated discussion</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom), Esther Barreiro Portela (Barcelona, Spain), Holly Rachael Keir (Dundee (Angus), United Kingdom)</td>
</tr>
<tr>
<td>08:45</td>
<td>Interactive questions and answers</td>
<td>Holly Rachael Keir (Dundee (Angus), United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Esther Barreiro Portela (Barcelona, Spain)</td>
</tr>
</tbody>
</table>

Knowledge café: How to identify your research niche?

**Aims:** To understand the importance of finding your own (research) niche, understand how to establish your (research) niche for your career development, explain how to search for/approach an organisation with the appropriate environment for your (research) niche.

**Chairs:** Orianne Dumas (Villejuif, France)
Identifying your research niche - moderated discussion
Darcy Wagner (Lund, Sweden), Orianne Dumas (Villejuif, France), Judith Garcia Aymerich (Barcelona, Spain)

Interactive questions and answers
Orianne Dumas (Villejuif, France), Darcy Wagner (Lund, Sweden), Judith Garcia Aymerich (Barcelona, Spain)

Channel 1
Session 465  09:30 - 11:00

 Oral presentation: Emerging evidence on sub-acute and long COVID-19

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Method(s):** General respiratory patient care, Pulmonary function testing, Imaging, Pulmonary rehabilitation, Epidemiology

**Tag(s):** COVID

**Chairs:** Laura Fregonese (London, United Kingdom), Guido Vagheggini (Volterra (PI), Italy)

**OA4187**
Introduction

**OA4188**
Multi-disciplinary approach to Long COVID in hospitalised and non-hospitalised COVID-19 patients (IMPACT-COVID study)
Stine Johnsen (København, Denmark), Stefan Sattler, Kamilla Miskowiak, Keerthana Kunalan, Alan Victor, Lars Pedersen, Helle Frost Andreassen, Barbara Jolanta Jorgensen, Hanne Heeboll, Michael Brun Andersen, Lisbeth Marner, Carsten Hædersdal, Henrik Hansen, Sisse Bolm Ditlev, Celeste Porsbjerg, Therese Lapperre

**OA4189**
Post-COVID-19 Symptom Burden: What is Long-COVID and how should we manage it?
Dominic Sykes (Garforth, United Kingdom), Luke Holdsworth, Nadia Jawad, Pumali Gunasekera, Alyn H Morice, Michael G Crooks

**OA4190**
Correlation of severity of the lung involvement in chest tomography with 6-minute walk test (6MWT) after hospital discharge in patients with COVID-19
Bruna Scharlack Vian (Campinas, Brazil), Pedro Maximink Esteves Villar, Henrique Alcântara Engleitner, Carolina Salem Tamesawa, Mayara Magalhães Morello, Luís Baechin De Oliveira, Ana Lucia Cavallaro Baraúna Lima, Hugo Dugolin Ceccato, Julian Furtado Silva, Ronaldo Macedo, Ligia Roceto Ratti, Mônica Corso Pereira

**OA4191**
Evaluation of COVID-19 radiological abnormalities at follow-up.
Shiva Bikmalla (Stoke-on-Trent (Staffordshire), United Kingdom), Muneer-Ahmed Syed, Stewart Morton

**OA4192**
Consequences of SARS-COV-2 Pneumonia on Lung function
Guido Levi (Bovezzo, Italy), Nicla Orzes, Laura Pini, Silvia Uccelli, Francesca Cettolo, Jordan Giordani, Alessandro Pini, Michele Guerini, Manuela Carfaglia, Claudio Tantucci

**OA4193**
CAT score as a predictor of long term complications of COVID-19
Raminder Aul (London, United Kingdom), Adrian Draper, Anne Dunleavy, Sachelle Ruickbie, Helen Meredith, Nicola Walters, Jessica Gates, Cristianio Van Zeller, Victoria Taylor, Roisin Dunwoody, Michael Bridgett, Yee Ean Ong

**OA4194**
Hospital re-admissions and deaths associated with COVID-19 illness: survival analysis
Zainah Ali (WEDNESBURY, United Kingdom), Sadia Ahmed, Annabel Makan, Emma Crawford, Koottalai Srinivasan, Devapriya Dev, Nauwad Ahmad, Harmesh Moudgil

**OA4195**
SARS-CoV-2: Survival in COPD phenotypes
Matthew Pavitt (Billingshurst (West Sussex), United Kingdom), Sophie Krivinskas, Jo Congleton, Sabrine Hippolyte

**OA4196**
Middle-long term pulmonary abnormalities after severe COVID-19 pneumonia which required invasive ventilation
Christine Seebacher (Bolzano (BZ), Italy), Gerhard Resch, Emanuele Stirpe, Roberto Dongilli, Lucio Bonazza, Patrizia Pernter, Federica Ferro

**OA4197**
Late Breaking Abstract - Post-trial follow-up after a randomized clinical trial of COVID-19 convalescent plasma.
Maria Teresa Panighetti (CABA, Argentina), Ignacio Esteban, Fernando P. Polack

**OA4198**
Discussion
All Speakers
Oral presentation: Advances in the diagnosis of tuberculosis, multidrug-resistant tuberculosis and nontuberculous mycobacterial disease

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

**Chairs:** Dirk Wagner (Freiburg, Germany), Berit Lange (Freiburg, Germany)

<table>
<thead>
<tr>
<th>Session Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA4199</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>OA4200</td>
<td>Diversity of genetic profiles of Mycobacterium tuberculosis from Ural region of Russia</td>
<td>Tatiana Umpeleva (Ekaterinburg, Russian Federation), Elena Mazurina, Leonid Lavrenchuk, Natalya Eremeeva, Diana Vakhrusheva</td>
</tr>
<tr>
<td>OA4201</td>
<td>Identification of isoniazid mono-resistance is delayed despite whole genome sequencing</td>
<td>Mirae Park (London, United Kingdom), Meg Coleman, Laura Martin, Georgie Russell, Ajit Lalvani, Giovanni Satta, Onn Min Kon</td>
</tr>
<tr>
<td>OA4202</td>
<td>Availability of drug susceptibility testing to new/re-purposed anti-tuberculosis drugs: a TBnet study</td>
<td>Lorenzo Guglielmetti (Paris, France), Claude Leu, Gunar Günther, Graham Bothamley, Christoph Lange, Frank Van Leth</td>
</tr>
<tr>
<td>OA4203</td>
<td>Role of PET CT scans in Tuberculous Meningitis</td>
<td>Thangakunam Balamugesh (Vellore (Tamil Nadu), India), Rajasekar Sekar, Deepa Shankar, Julie Hephzibah, Devasahayam J Christopher</td>
</tr>
<tr>
<td>OA4204</td>
<td>Genetic polymorphism and phenotypic resistance of Mycobacterium tuberculosis to fluoroquinolones of different generations</td>
<td>Leonid Lavrenchuk (Ekaterinburg, Russian Federation), Tatiana Umpeleva, Natalya Eremeeva, Diana Vakhrusheva</td>
</tr>
<tr>
<td>OA4205</td>
<td>Residual DNA of Mtb from the bronchoscope channel as a possible cause of false positive results in the diagnosis of tuberculosis</td>
<td>Natalya Eremeeva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Anna Cvirenko, Tatiana Umpeleva, Diana Vakhrusheva, Leonid Lavrenchuk, Artem Minin</td>
</tr>
<tr>
<td>OA4206</td>
<td>The effectiveness of broncho-alveolar lavage for the pathogen detection in children with pulmonary tuberculosis</td>
<td>Anastasia Russkikh (Moscow, Russian Federation), Elena Veselova, Olga Lovacheva, Nadezda Klevno, Anna Panova, Alexandra Gracheva, Anastasia Samoilova, Irina Vasilyeva</td>
</tr>
<tr>
<td>OA4208</td>
<td>The role of increasing TIM3 on T cells in patients with nontuberculous mycobacterial lung disease: from immune cell dysfunction to clinical severity</td>
<td>Chin-Chung Shu (Taipei, Taiwan), Chin-Chung Shu, Ping-Huai Wang, Ming Fang Wu</td>
</tr>
<tr>
<td>OA4209</td>
<td>Late Breaking Abstract - Initiation of patient enrollment in treatment with BPaL in Ukraine: first intermediate results</td>
<td>Natalia Lytvynenko (Kyiv, Ukraine), Maryna Pogrebna, Yuliia Senko, Yurii Gamazin, Iana Terleeva</td>
</tr>
<tr>
<td>OA4210</td>
<td>Discussion</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>
Trends in asthma prevalence among young adults in Denmark – a 20-year nationwide register-based study
Inge Raadal Skov (Odense, Denmark), Hanne Madsen, Jacob Harbo Andersen, Jesper Rømhild Davidsen

Do clinical traits differ between GINA 2020 Steps 4 and 5 in primary versus secondary care?
Kjell Erik Julius Håkansson (København N, Denmark), Yunus Çolak, Peter Lange, Børge Nordestgaard, Vibeke Backer, Charlotte Suppli Ulrik

Distribution of biomarkers in severe asthma and severe uncontrolled asthma
Bo Ding (Mölndal, Sweden), Stephanie Chen, Aayushi Agrawal, Divyansh Srivastava, Jaime Solorzano, Bill Cook, Alberto Papi, Helen K Reddel

Obesity and inflammatory markers in adult-onset asthma
Helena Backman (Lulea, Sweden), Sofia Winsa Lindmark, Linnea Hedman, Katja Warm, Tomi Myrberg, Caroline Stridsman, Hannu Kankaanranta, Anne Lindberg, Bo Lundbäck, Eva Rönmark

Effect of pregnancy on asthma control: a cohort study in rural Sri Lanka
Shashanka Indeevara Rajapakse Rajapakse Mudiyanselage (Kandy, Sri Lanka), Nuwan Darshana Wickramasinghe, Thilini Chanchala Agampodi, Gayani Amarasinghe, Ayesh Hettiarachchi, Imasha Upulini Jayasinghe, Iresha Koralegedara, Janith Warnasekara, Suneth Buddhika Agampodi

Blood inflammatory phenotypes of asthma in the Constances cohort
Tajidine TSIAVIA (PARIS, France), Joseph Henny, Marcel Goldberg, Marie Zins, Nicolas Roche, Laurent Orsi*, Rachel Nadif*

The Czech National Programme for Early De­tection of Chronic Obstructive Pulmonary Disease – interim results from the pivotal project.
Kristian Brat (Brno, Czech Republic), Karel Hejduk, Norbert Kral, Jana Skrickova, Stanislav Kos, Ivana Cierna Peterova, Ondrej Ngo, Jan Kouril, Vladimir Kobízek

Non-respiratory diseases in adults with and without asthma by age at diagnosis
Jasmin Honkamäki (Tampere, Finland), Pinja Ilmarinen, Hanna Hisinger-Mölkänen, Leena E Tuomisto, Heidi Andersen, Heini Huhtal, Anssi Sovijärvi, Ari Lindqvist, Helena Backman, Bo Lundbäck, Bright Nwaru, Eva Rönmark, Lauri Lehtimäki, Paula Pallasaho, Päivi Piirilä, Hannu Kankaanranta

Late Breaking Abstract - Rates and risk factors of respiratory symptoms during marathon running
Siyu Dai (Hong Kong, Hong Kong), Jianping Ding

Late Breaking Abstract - An international Mendelian Randomization study of BMI and ICS response in children
Cristina Longo (Laval, Canada), Erick Forno, Andreas Boeck, Juan Celedon, Wei Chen, Raquel Granell, Michael Salvermoser, Bianca Schauba, Stephen Turner, Suzanne Vijverberg, Zhongli Xu, Anke-Hilse Maitland-Van Der Zee

Discussion
All Speakers

**Channel 4**

**Session 468**

**09:30 - 11:00**

**Oral presentation: A selection of the best abstracts in respiratory physiotherapy and exercise**

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion. This session includes the Best Abstract for Assembly 9 - Allied Respiratory Professionals, entitled "Effect of beta-alanine supplementation on muscle carnosine, oxidative and carbonyl stress, antioxidants and physical capacity in patients with COPD"

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

**Method(s):** Pulmonary rehabilitation, Physiology, Respiratory intensive care, General respiratory patient care

**Chairs:** Andre Nyberg (Umeå, Sweden), Arietta Spinou (London, United Kingdom)

**OA4223** Introduction

**OA4224** Effect of beta-alanine supplementation on muscle carnosine, oxidative and carbonyl stress, antioxidants and physical capacity in patients with COPD
Jana De Brandt (Diestenbeek, Belgium), Wim Derave, Frank Vandenameebe, Pascal Pomiës, Joseph Aumann, Laura Blancquaert, Inge Everaert, Charly Keysman, Marina Barusso-Grüninger, Maurice Hayot, Martijn Spruit, Chris Burtin

**OA4225** Inhospital NEMS for patients with coexisting physical frailty and cognitive impairment during acute exacerbation of COPD: a randomized controlled trial
Laura Lopez Lopez (Granada, Spain), Jesús González-Dueñas, Irene Torres-Sánchez, Andrés Calvache-Mateo, Araceli Ortiz-Rubio, Marie Carmen Valenza
## Channel 5
### Session 469  09:30 - 11:00
**Oral presentation:** Exploring the phenotypic heterogeneity across rare diffuse parenchymal lung diseases

**Aims:** This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

**Disease(s):** Interstitial lung diseases, Airway diseases

**Method(s):** Cell and molecular biology, General respiratory patient care, Pulmonary function testing

**Chairs:** Francesco Bonella (Düsseldorf, Germany), Cormac McCarthy (Dublin 4, Ireland)

### OA4233  Introduction

#### OA4234  Granulomatous-Lymphocytic Interstitial Lung Disease (GLILD): an international research prioritisation
Heba M Bintalib (London, United Kingdom), S Hamza Abbas, Klaus Warnatz, John R Hurst (and On Behalf Of The Eglildnet Consortium)

#### OA4235  Diffuse Pulmonary Non-Amyloid Light-Chain Deposition Disease: Phenotypes and Outcome
François Lestelle (Lyon, France), Mouham Nasser, Antoine Roux, Sandrine Hirschi, Lidwine Wemeau, Gregoire Prévot, David Rotzinger, Salim Si-Mohamed, Vincent Bunel, Emmanuel Gomez, Laurent Sohier, Helene Morisse Pradier, Martine Reynaud Gaubert, Anne Gondouin, Romain Lazor, Yurdagül Uzunhan, Pierre Rigaud, Magali Colombat, Catherine Beigelman, Vincent Cottin

#### OA4236  Idiopathic chronic obliterative bronchiolitis: a multicentric retrospective cohort study
Mouhamad Nasser (Bron, France), Yurdağül Uzunhan, Sandrine Hirschi, Stéphane Jouneau, François Lebargy, Aurélien Justet, Camille Taillé, Lidwine Wemeau, Víctor Valentin, Raphael Borie, Benoît Godbert, Frédéric Gagnadoux, Laurent Guilleminault, Hilario Nunes, Sylvain Marchand-Adam, Vincent Cottin

#### OA4237  Specifying pediatric pulmonary hemorrhage: Suggestion of a diagnostic algorithm as guide to disease subcategories
Katrin Knoﬂach (München, Germany), Christina Rapp, Elias Seidl, Nicolaus Schwerk, Martin Wetzke, Julia Carlens, Nural Kiper, Nagehan Emiralioglu, Frederik Buchvald, Astrid Madsen Ring, Peter N Robinson, Matthias Greise

#### OA4238  Estimating long-term survival in progressive fibrosing interstitial lung disease (PF-ILD) other than IPF using matched IPF data
Toby Maher (Los Angeles, United States of America), Bryony Langford, Alex Diamantopoulos, Klaus Rohr, Mike Baldwin, Yoshikazu Inoue

#### OA4239  Prevalence of lymphangioleiomyomatosis in an Irish population and biomarker utility
Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Joseph Morrow, Aurelie Fabre, J.D. Dodd, D.J. Murphy, Michael Keane, Cormac McCarthy
Symposium: Lung cancer and fibrotic interstitial lung diseases: a challenging association for pulmonologists

**Aims:**
- To provide an overview of the epidemiology, clinical, radiological, and pathological characteristics and prognosis of patients with lung cancer (LC) associated with fibrotic interstitial lung disease (fILD);
- To describe evidence of pathophysiological intersections between these two diseases and the importance of designing new therapeutic strategies based on this knowledge;
- To explore how anti-fibrotic treatments or other innovative approaches could alter the natural history of these diseases.

**Method(s):**
- Cell and molecular biology
- Imaging
- Public health

**Tag(s):**
- Clinical

**Target audience:**
- Adult pulmonologist/Clinician
- Clinical researcher
- Medical Student
- Nurse
- Pathologist
- Patient
- Physician in Pulmonary Training
- Radiologist
- Scientist (basic, translational)
- Thoracic oncologist

**Chairs:**
- Torsten Gerriet Blum (Berlin, Germany)
- Marlies S. Wijsenbeek (Rotterdam, Netherlands)

**09:30**
**Introduction**

**09:32**
**Current portrait of LC-fILD: from epidemiology to clinico-patho-radiological presentation and diagnosis**
- Manuela Funke-Chambour (Bern, Switzerland)

**09:50**
**Pathophysiology of LC and fILD: siblings or just friends?**
- Venerino Poletti (Forlì, Italy)

**10:05**
**How to stop LC-fILD progression: an overview of modern therapeutic strategies**
- Jacques Cadranel (Paris Cedex 20, France)

**10:20**
**How to disrupt malicious LC-fILD pathways: antifibrotic agents as a promising therapeutic approach**
- Athol Wells (London, United Kingdom)

**10:35**
**Discussion and Q&A**
- All Speakers
**Session 473**

**Studio London**

**Aims:** To summarise the translational evidence for a pathogenic role of viral infections in chronic lung diseases; to explain the role of viruses as injurious agents in the onset of a variety of pulmonary pathologies (including COVID and other viruses known for their damaging effects on pulmonary health via various possible pathways); to summarise the most recent knowledge regarding viral induction of chronic lung diseases; to discuss the implications of new emerging respiratory viruses for virus epidemiology, pandemic threats and vaccine development; to highlight the contribution of viral infections to the onset of chronic lung diseases; to list the mechanistic pathways of post-viral chronic lung diseases and the factors modulating (post)virus pathogenesis including age; to describe the activation of immune cells in viral-induced chronic lung diseases and potential therapeutic approaches.

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

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

**Tag(s):** Translational, COVID, Basic science

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Patient, Scientist (basic, translational)

**Chairs:** Anh Tuan Dinh-Xuan (Paris, France), Thomas Geiser (Bern, Switzerland)

**Introduction**

Tobias Welte (Hannover, Germany)

Emerging respiratory virus infections threaten pulmonary health

Donald Sin (Vancouver (BC), Canada)

Post-viral effects on the susceptibility of developing chronic lung diseases

Sejal Saglani (London, United Kingdom)

Development of paediatric asthma following viral infections

Silke Meiners (Sülfeld, Germany)

The role of viruses in the pathogenesis of pulmonary fibrosis

Discussion and Q&A

All Speakers

**Session 474**

**Studio Munich**

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

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

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

**Chairs:** Marc Miravitlles (Barcelona (CT), Spain), Miriam Barrecheguren Fernandez (Barcelona, Spain), Nicolas Roche (Paris, France)

**Discussants:** Holly Rachael Keir (Dundee (Angus), United Kingdom), Gernot G.U. Rohde (Frankfurt am Main, Germany)

**Introduction**

Charles Haworth (Cambridge, United Kingdom), Michal Shteinberg, Kevin L Winthrop, Francesco Blasi, Katerina Dimakou, Lucy Morgan, Felix C Ringshausen, Oriol S Vidal, Rachel Thompson, Kelly Sharp, Ischa Vissers, Dearbhla Hull, James D Chalmers

**RCT Abstract** - The efficacy and safety of colistimethate sodium delivered via the I-neb in bronchiectasis: the PROMIS-I randomized controlled trial

**RCT Abstract** - Exposure-response relationships of brensocatib in patients with non-cystic fibrosis bronchiectasis (NCFBE)

**RCT Abstract** - Wrap-up by discussant and discussion

**Wrap-up by discussant and discussion**

Holly Rachael Keir (Dundee (Angus), United Kingdom)
Inhaled budesonide in the treatment of early COVID-19 illness: a randomised controlled trial

RCT Abstract - An adaptive randomized controlled trial of non-invasive respiratory strategies in acute respiratory failure patients with COVID-19
Bronwen Connolly (London, United Kingdom), Gavin D Perkins, Chen Ji, Keith Couper, Ranjit Lall, J Kenneth Baillie, Judy M Bradley, Paul Dark, Chirag Dave, Anthony De Soyza, Anna V Dennis, Anne Devrell, Sara Fairbairn, Hakim Ghani, Ellen A Gorman, Christopher A Green, Nicholas Hart, Siew Wan Hee, Zoe Kimbley, Shyam Madathil, Nicolaj Megowan, Benjamin Messer, Jay Naishbitt, Chloe Norman, Dhrav Parekh, Emma M Parke, Jaimin Patel, Scott E Regan, Clare Ross, Anthony J Rostron, Mohammad Saim, Anita K Simonds, Emma Skilton, Nigel Stallard, Michael Steiner, Rama Vancheeswaran, Joyce Yeung, Daniel F Mc Auley, On Behalf Of The Recovery-Rs Collaborators

Wrap-up by discussant and discussion
Gernot G.U. Rohde (Frankfurt am Main, Germany)

Closing remarks
Studio Paris Session 475 09:30 - 11:00
State of the art session: Paediatric respiratory diseases
Aims: To provide clinicians with practical take-home messages regarding the key management and health policy issues related to the respiratory health of children and young people; to provide an update on four important topics in paediatric respiratory medicine.

Disease(s): Airway diseases Paediatric respiratory diseases Respiratory infections
Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse. Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Respiratory therapist

Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Andrew Bush (London, United Kingdom)

9:30 Introduction
9:35 Pulmonary haemorrhage in children
Nadia Nathan (Paris, France)
9:50 Mycoplasma pneumoniae-associated complications
Patrick Meyer Sauteur (Zurich, Switzerland)
10:05 The lung in sickle cell disease
Atul Gupta (London, United Kingdom)
10:20 A child with stridor: teamwork of paediatric pulmonologists and paediatric ENT specialists
Bas Pullens (Rotterdam, Netherlands)
10:35 Discussion and Q&A
All Speakers

Channel 6 Session 476 09:30 - 11:00
Oral presentation: Difficult decisions on expected outcomes: availability of hospital resources and improvement of treatment adherence
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Airway diseases Sleep and breathing disorders Respiratory critical care Thoracic oncology
Method(s): General respiratory patient care Public health Palliative care

Chairs: Isabella Annesi Maesano (Paris, France), Benoit Nemery (Leuven, Belgium)

OA4280 Introduction
OA4281 Cost Effectiveness Comparison of a Dry Powder Inhaler to a Metered Dose Inhaler plus Valved Holding Chamber based on a Functional Respiratory Imaging (FRI) Model
Mark Nagel (London (ON), Canada), Amanda Bracey, Alison Ellery, Jason Suggett
OA4282 Machine learning-based prediction of deviations from DRG-based average length of hospital stay (LOHS) in a Swiss hospital
Giorgia Lüthi-Corridori (Liestal, Switzerland), Stéphanie Giezendanner, Philippe Salathé, Jörg Leuppi

OA4283 IMPACT: Healthcare resource use data and associated costs for single-inhaler triple therapy versus dual therapies in Spain
Victoria Paly (New York, United States of America), Laura Amanda Vallejo-Aparicio, Andrea Gabrio, Gianluca Baio, Alan Martin, Afisi Ismaila

OA4284 Cost-effectiveness of single-inhaler triple therapy for chronic obstructive pulmonary disease treatment by baseline blood eosinophil count: IMPACT trial
Afisi Ismaila (Cary, United States of America), Dhvani Shah, Alan Martin, Robyn Kendall, Nancy Risebrough

OA4285 The economic impact recurrent inhaler versus single instructions in asthma and COPD patients
Esther I. Metting (Groningen, Netherlands), Jildou Kracht, Richard Depuijzen

OA4286 Learning from litigation in respiratory medicine
Nicola Read (London, United Kingdom), Martin Allen

OA4287 Analysis of intubate / do not intubate orders in COVID-19 patients.
Markus Hofer (Zürich, Switzerland), Luzia Reutemann, Vineeta Bansal, Renate Grathwohl Shaker, Julia Wallner, Reinhard Imoberdorf

OA4288 Do not attempt resuscitation (DNAR) orders in patients admitted to hospital with COVID-19
Kristian Brooks (North Shields (Tyne and Wear), United Kingdom), Stephen Murphy, Fatima Khalil

OA4289 Living with a tracheostomy in MND: A qualitative review of patient and carer perspective
Julian Ting (Leeds (West Yorkshire), United Kingdom), Rebecca Young, Syme Bhopal, Guy Gitlin-Leigh, Dipansu Ghosh

OA4290 Late Breaking Abstract - Variable costs of sepsis in a Greek ICU
Athanasios Plataniotis (ATHENS, Greece), X. Mathas, T. Mariolis, I. Pavlopoulou, P. Myrianthefs

OA4291 Discussion
All Speakers

Studio Barcelona Session 477 10:10 - 10:25
Breakout room: Breakout room: Pro-Con debate, Fractionated exhaled nitric oxide for the diagnosis of asthma: friend or foe?
Chairs: Iñigo Ojanguren Arranz (Barcelona, Spain), Renaud Louis (Liège, Belgium), Merian Kuipers (Den Haag, Netherlands)

Studio Barcelona Session 478 10:20 - 11:00
Pro-Con debate: Lung metastasectomy: let’s pour some water on the fire

Aims: To identify the recent clinical advancement in lung metastasectomy; to learn how to differentiate lung metastases on the basis of staging; to present selection of patients who may benefit from surgical treatment; to present how to identify treatment options for lung metastases.

Disease(s): Thoracic oncology
Method(s): Surgery
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist
Chairs: Omar S. Usmani (London, United Kingdom), Joanna Chorostowska-Wynimko (Warsaw, Poland)

10:20 Introduction
10:22 Lung metastasectomy should always be performed. The aim of new dedicated TNM staging for lung metastases
Marcello Migliore (Catania (CT), Italy)

10:34 An alternative to surgical metastasectomy
Carole Ridge (London, United Kingdom)

10:46 Discussion and Q&A
All Speakers
### Channel 1: Session 484 11:15 - 12:30

**Challenging clinical cases: CCC Pulmonary vascular diseases**

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in pulmonary vascular diseases area. The session leaders will facilitate discussion among the case presenters and the audience in order to examine and discuss each case.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Thoracic surgeon

**Chairs:** Luke Howard (London, United Kingdom), Silvia Ulrich (Zurich, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Introduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>The case of hypoxaemic respiratory failure in a patient with mild COPD</td>
<td>Luca Nicola Cesare Bianchi (Rovato (Bs), Italy)</td>
<td></td>
</tr>
<tr>
<td>11:30</td>
<td>Double edge sword</td>
<td>Sameer Vaidya (Indore (Madhya Pardesh), India)</td>
<td></td>
</tr>
<tr>
<td>11:40</td>
<td>An unusual case of pleuritis</td>
<td>Federico Mei (Ancona (AN), Italy)</td>
<td></td>
</tr>
<tr>
<td>11:50</td>
<td>Polycythemia and infertility</td>
<td>Charlotte Cohen (Nice, France)</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Keeping it in the family</td>
<td>Raja Muthusami (Hereford, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>12:10</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 2: Session 485 11:15 - 12:45

**Oral presentation: Emerging respiratory diseases: state-of-the-art studies of SARS-CoV-2 infection**
**Aims**: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

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

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

**Tag(s)**: COVID

**Chairs**: Niki Ubags (Epalinges, Switzerland), Debby Bogaert (Edinburgh, United Kingdom)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA4303</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>TD-0903</td>
<td>an inhaled JAK inhibitor in development for COVID-19, blocks ARDS-relevant hyperinflammation and lung injury in primary human immune and airway epithelial cells</td>
<td>Reuben Sana (South San Francisco, United States of America), Emma Gordon, Aaron Navratil, Erik Sandvik, Jacky Woo, Rajeev Saggar, Ed Moran, Elad Kaufman</td>
</tr>
<tr>
<td>OA4305</td>
<td>SARS-CoV-2 D614G-infected airway organoids reveal enhanced viral fitness in COPD bronchi</td>
<td>Louisa Lok Yung Chan (Singapore, Singapore), Louisa Lok Yung Chan, Danielle E. Anderson, Adrian E Z Kang, Randy Foo, Akshamal M. Gamage, Pei Yee Tiew, Mariko Siyue Koh, Ken Cheah Hooi Lee, Kristy Nichol, Prabuddha Sarathy Pathinayake, Tsin Wen Yeo, Brian G. Oliver, Peter A B Wark, Lin-Fa Wang, Sanjay H. Chotirmall</td>
</tr>
<tr>
<td>OA4306</td>
<td>A novel short isoform of ACE2 is expressed in ciliated airway epithelium and is induced by interferon and rhinovirus infection but not SARS-CoV-2: implications for COVID-19 interferon treatment</td>
<td>Claire L. Jackson (Southampton (Hampshire), United Kingdom), Cornelia Blume, Cosma Mirella Spalluto, Christopher J Mc Cormick, Donna E. Davies, Jane S. Lucas, Vito Mennella, Gabrielle Wheway</td>
</tr>
<tr>
<td>OA4307</td>
<td>The mucosal immunity of the respiratory tract in COVID-19 convalescent healthcare professionals</td>
<td>Nadezda Kryukova (Moscow, Russian Federation), Natalia Abramova, Ekaterina Khromova, Valeria Zakharova, Svetlana Skhodova, Irina Bisheva, Aleksandra Vinnitskaya, Mikhail Kostinov, Irina Baranova, Oxana Svitich, Alexander Chuchalin</td>
</tr>
<tr>
<td>OA4308</td>
<td>Sex-Hormone Specific Responses to SARS-CoV2 in an iPSC-derived human model of Type 2 Alveolar Epithelial Cells</td>
<td>Irene Oglesby (Dublin 9, Ireland), Arlene Glasgow, Mari Ozaki, Catherine Greene, Killian Hurley</td>
</tr>
<tr>
<td>OA4310</td>
<td>Modulation of the innate and adaptive immune system during coronavirus infection.</td>
<td>Philipp Hohensinner (Vienna, Austria), Manuel Salzmann, Johann Wojta, Roberto Plasenzotti</td>
</tr>
<tr>
<td>LSC - 2021 - Use of differentiated human airway epithelial models to study SARS-CoV-2 infection biology and pathogenesis</td>
<td>Ying Wang (Leiden, Netherlands), Melissa Thaler (<a href="mailto:M.Thaler@lumc.nl">M.Thaler@lumc.nl</a> / Leiden University Medical Center, Leiden), Dennis K. Ninaber (<a href="mailto:D.K.Ninaber@lumc.nl">D.K.Ninaber@lumc.nl</a> / Leiden University Medical Center, Leiden), Anne M. Van Der Does (<a href="mailto:A.van_der_Does@lumc.nl">A.van_der_Does@lumc.nl</a> / Leiden University Medical Center, Leiden), Natasha S. Ogando (<a href="mailto:N.S.Lima_Leite_Ogando@lumc.nl">N.S.Lima_Leite_Ogando@lumc.nl</a> / Leiden University Medical Center, Leiden), Hendrik Beckert (<a href="mailto:hendrik.beckert@rlk.essen.de">hendrik.beckert@rlk.essen.de</a> / University Medical Center, Leiden), Christian Taube (<a href="mailto:christian.taube@rlk.essen.de">christian.taube@rlk.essen.de</a> / University Medical Center, Leiden), Clarisse Salgado Benvindo Da Silva (<a href="mailto:C.Salgado_Benvindo_da_Silva@lumc.nl">C.Salgado_Benvindo_da_Silva@lumc.nl</a> / Leiden University Medical Center, Leiden), Peter J. Breidenbeek (<a href="mailto:p.j.breidenbeek@lumc.nl">p.j.breidenbeek@lumc.nl</a> / Leiden University Medical Center, Leiden), Martijn J. van Hemert (M.J. <a href="mailto:van_Hemert@lumc.nl">van_Hemert@lumc.nl</a> / Leiden University Medical Center, Leiden)</td>
<td></td>
</tr>
<tr>
<td>OA4311</td>
<td>Alveolar type II cells harbouring SARS-CoV-2 show senescence with a proinflammatory phenotype</td>
<td>Koralia Paschalaki (London, United Kingdom), Konstantinos Evangelou, Dimitris Veroutsis, Periklis Foukas, Christos Kittas, Athanasios Tzioufas, Laurence De Leval, Demetris Vassilakos, Peter Barnes, Vassilis Gorgoulis</td>
</tr>
</tbody>
</table>

**Channel 3  Session 486  11:15 - 12:45**

Oral presentation: New clinical and biological developments in lung cancer
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

This session includes the Best Abstract for Assembly 11.01 - Lung cancer, entitled "Spirometry and under-diagnosis of COPD in a lung cancer screening cohort"

Disease(s): Airway diseases, Thoracic oncology, Interstitial lung diseases

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

Chairs: Rudolf M. Huber (Munich, Germany), Georgia Hardavella (Athens, Greece)

OA4314 Introduction

OA4315 Spirometry and under-diagnosis of COPD in a lung cancer screening cohort
Claire Bradley (letterkenny, Ireland), Martyn Kennedy, Alison Boland, Deborah Ellames, Doytchin Dimov, Rhiain Gabe, Panos Alexandris, Philip A J Crosbie, Matthew E J Callister

OA4316 Application of breathomics in early detection of lung cancer in indian population: a pilot study
Bijay Pattnaik (New Delhi, India), Rohit Vadala, Sunil Bangaru, Naveen Bhatraju, Jaya Tak, Divyanjali Rai, Seetu Kashyap, Umashankar Verma, Harinharan Iyer, Randeep Guleria, Anurag Agrawal, Anant Mohan

OA4317 Validation of lung nodule detection a year before diagnosis in NLST dataset based on a deep learning system
Herve Delingette (sophia antipolis, France), Benoît Audelan, Stéphanie Lopez, Pierre Fillard, Yann Diascorn, Bernard Padovani

OA4318 Clinical and molecular analysis of lung cancer associated with fibrobing and diffuse interstitial lung disease.
Valentin Heluin (Toulouse, France), Grégoire Prévot, Bastien Cabarrou, Olivier Calvayrac, Estelle Clermont, Alain Didier, Julie Milia, Julien Mazières

OA4319 Instant on-site histological feedback on bronchoscopic biopsies using higher harmonic generation microscopy
Laura Van Huizen (Amsterdam, Netherlands), Johannes Daniels, Teodora Radonic, Jouke Annema, Marloes Groot

OA4320 LSC - 2021 - CAMP response element-binding protein mediates immune-evasion of KRAS-mutant lung adenocarcinoma
Georgia A. Giotopoulo (Munich, Germany), Giannoula Ntaliarda (ntaliarda@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Antonia ?arazioti (amarazioti@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Ioannis Lilians (ioannlisillis@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Nikoletta Spiropoulou (nispopiropoulou@gmail.com / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Foteini Kalogianni (kalogianni@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Evangelia Tourkochristou (bio3557@upnet.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Joanna Giopanou (giopanou@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Marga Stella (margaspi@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Marianne Liopoulou (marianspi@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras ,Patras) , Aigli Korfiati (a.korfiati@insybio.com / InSyBio Ltd; Winchester, Hampshire , SO23 8SR; United Kingdom, London) , Konstantinos Theofilatos (k.theofilatos@insybio.co.uk / InSyBio Ltd; Winchester, Hampshire, SO23 8SR; United Kingdom, London) , Seferina Mavroudi (s.mavroudi@insybio.co.uk / InSyBio Ltd; Winchester, Hampshire, SO23 8SR; United Kingdom, London) , Theofilos Mantamaditis (theo.mantamaditis@unimelb.edu.au / Cancer Signaling Laboratory, Department of Pathology, University of Melbourne, Melbourne) , Torsten Goldmann (tgolmann@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Borstel) , Sebastian Marwitz (smarwitz@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Borstel) , Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center Munich,Munich)

OA4321 LSC - 2021 - Mutational RNA signatures in environmentally-induced lung adenocarcinoma
Georgia A. Giotopoulo (Munich, Germany), Sabine J. Behrend (sabine.behrend@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center ,Munich), Giannoula Ntaliarda (ntaliarda@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras,Patras), Anne-Sophie Lamort (anne-sophie.lamort@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center ,Munich) , Mario A.A. Pepe (mario.pepe1985@libero.it / Comprehensive Pneumology Center, Helmholtz Center ,Munich) , Ioannis Lilians (ioannlisillis@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras,Patras) , Magda Spella (magsp@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras,Patras) , Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center Munich,Munich)

OA4322 The predictive value of circulating tumor DNA dynamics in plasma of EGFR-mutation-positive NSCLC patients on first line tyrosine kinase inhibitors
Adam Szpechciński (Warszawa, Poland), Maciej Bryl, Grzegorz Czyzewicz, Emil Wojda, Daria Sjniuch, Marek Szwiec, Rodryg Ramlau, Pawel Sliwinski, Aleksander Barinow-Wojewodzki, Joanna Chorostowska-Wynimko
Identification of predictive biomarkers of immunotherapy response in non-small cell lung cancer by multiparametric analysis
Javier Ramos Paradas (Madrid, Spain), David Gomez-Sanchez, Aranzazu Rosado, Irene Ferrer, Nuria Carrizo, Ana B Enguita, María T Muñoz, Luis Paz-Ares, Eva M Garrido-Martín

Late Breaking Abstract - Randomized phase III study of erlotinib compared to intercalated erlotinib with cisplatin and pemetrexed as first-line therapy for advanced EGFR mutated non-small cell lung cancer, the NVALT 17 study.

Discussion
All Speakers

Channel 4  Session 487  11:15 - 12:45
Oral presentation: Genetics and translational aspects of idiopathic pulmonary fibrosis

Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minutes live, slide show presentation followed at the end of the session by 30-minutes general discussion.

Disease(s): Interstitial lung diseases

Method(s): Cell and molecular biology  General respiratory patient care  Epidemiology  Pulmonary function testing  Imaging

Chairs: Manuela Funke-Chambour (Bern, Switzerland), Claudia Valenzuela (Madrid, Spain)

A novel prognostic signature based on five-immune-related genes for idiopathic pulmonary fibrosis
Lingxiao Qiu (Zhengzhou, China), Gen-Cheng Gong, Guojun Zhang

Clinical course of suspected familial versus sporadic IPFData from the PROOF-Next IPF registry
Antoine Froidure (Bruxelles, Belgium), Benjamin Bondue, Caroline Dahlqvist, Julien Guiot, Natacha Gusbin, Gil Wirtz, Guy Joos, Danielle Strens, Hans Slaabynck, Wim Wuyts

Genetics variants in familial interstitial pneumonia and progressive fibrosing interstitial lung disease (PF-ILD)
Deborah Dos Reis Estrella (Belo Horizonte (MG), Brazil), Flávia Sacilotto Donaires, André Luiz Pinto Santos, Eliane Viana Mancuzo, Rodrigo Tocantins Calado, Ricardo De Amorim Corrêa

Pulmonary fibrosis in non-mutation carriers of families with short telomere syndrome gene mutations.
Joanne van der Vis (Nieuwegein, Netherlands), Jasper Van Der Smagt, Aernoud Van Batenburg, Wouter Van Es, Jan Grutters, Coline Van Moorsel

Biominformatics analysis of differentially expressed genes and pathways in idiopathic pulmonary fibrosis
Nana Li (Zhengzhou, China), Lingxiao Qiu, Cheng Zeng, Guojun Zhang

Impaired lung NK activity in the lung of Idiopathic Pulmonary Fibrosis patients
Tamara Cruz (Barcelona, Spain), Anna Bondonese, John Sembrat, Tracy Tabib, Wenping Zhang, Nilay Mitash, Dario Vignali, Ana L. Mora, Robert Lafyatis, Mauricio Rojas

Released mediators in ex vivo 3D-model of lung fibrosis correspond to elevated serum biomarkers in IPF
Dimitrios Kalafatis (Stockholm, Sweden), Anna Löfdahl, Per Näsman, Linda Elowsson Rendin, Gunilla Westergren-Thorssén, Magnus Sköld

Biosynthesis and implementation of Thyroid Receptor beta (TRβ) agonists (thyromimetics) for the treatment of pulmonary fibrosis
Argyris Tzouvelekis (Athens, Greece), Alexios Matralis, Theodoros Karampitsakos, Ourania Papaioannou, Matthias Katsaras, Fotios Sampsonas, Demosthenes Bouros, Vassilis Aidinis
LSC - 2021 - The Anti-Fibrotic Drug Nintedanib Promotes Repair Macrophages
Carolin K. Koss (Stuttgart, Germany), Katrin Fundel-Clemens (katrin.fundel-clemens@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Daniela Schlösser (daniela.schloesser@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Carmen Lerner (carmen.lerner@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Silvia Frey (silvia.frey@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Christian T. Wohlnhaas (christian_thaddaeus.wohlnhaas@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Coralie Viollet (coralie.viollet@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Stefanie Dichtl (sdichtl@biochem.mpg.de / Max Planck Institute of Biochemistry,Martinsried), Cornelia Tilp (cornelia.tilp@boehringer-ingelheim.com / boehringer ingelheim Pharma GmbH & Co. KG,Biberach), Matthew J. Thomas (murray@biochem.mpg.de / Max Planck Institute of Biochemistry,Martinsried), Fidel Ramirez (fidel.ramirez@boehringer-ingelheim.com / boehringer ingelheim Pharma GmbH & Co. KG,Biberach), Karim C. El Kasmi (karim_christian.el_kasmi@boehringer-ingelheim.com / boehringer ingelheim Pharma GmbH & Co. KG,Biberach), Heinrich J. Huber (heinrich_2.huber@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Peter J. Murray (pjmurray@biochem.mpg.de / Max Planck Institute of Biochemistry,Martinsried), Cornelia Tilp (cornelia.tilp@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Matthew J. Thomas (murray@biochem.mpg.de / Max Planck Institute of Biochemistry,Martinsried), Fidel Ramirez (fidel.ramirez@boehringer-ingelheim.com / boehringer ingelheim Pharma GmbH & Co. KG,Biberach), Karim C. El Kasmi (karim_christian.el_kasmi@boehringer-ingelheim.com / boehringer ingelheim Pharma GmbH & Co. KG,Biberach).

Late Breaking Abstract - Prevalence of interstitial lung abnormalities in a Swedish population-based sample
Ida Pesonen (Stockholm, Sweden), Åse Johnsson, Fredrik Johansson, Per Wollmer, Eva Lindberg, Anders Blomberg, Kjell Torén, Carl Johan Östgren, Magnus Sköld

Discussion
All Speakers

Channel 5  Session 488  11:15 - 12:45

Oral presentation: Thoracic ultrasound: future applications and current evidence
Aims: This session is built from abstracts published on the ERS Congress platform from 23 August, in a PowerPoint format with a pre-recorded audio narration. The live session is scheduled from September 5-7 and each presenter will have a 5-minute live, slide show presentation followed at the end of the session by 30-minutes general discussion. This session includes the Best Abstract for Assembly 14 - Clinical Techniques, Imaging and Endoscopy, entitled "Thoracic Ultrasound for guiding pleurodesis in malignant pleural effusion: a randomised trial"

Disease(s): Thoracic oncology, Respiratory critical care, Pulmonary vascular diseases
Method(s): Endoscopy and Interventional pulmonology, Transplantation, Imaging, General respiratory patient care, Pulmonary function testing

Chairs: Michiel J. Thomeer (Tiel (BT), Belgium), Rahul Bhatnagar (Bristol, United Kingdom)

Thoracic Ultrasound for guiding pleurodesis in malignant pleural effusion: a randomised trial
Maged Hassan (Alexandria, Egypt), Ioannis Psallidas, Ahmed Yousuf, Tracy Duncan, Shahul Leyakathali Khan, Kevin Blyth, Matthew Evison, John Corcoran, Simon Barnes, Raja Reddy, Peter Bonta, Rahul Bhatnagar, Gayathri Kagithala, Melissa Dobson, Ruti Knight, Susan Dutton, Emma Hedley, Hania Pietrowska, Louise Brown, Rachel Mercere, Rachelle Assi, Ehab Bedawi, Rob Hallifax, Mark Slade, Rachel Benamore, Anthony Edye, Robert Miller, Nick Maskell, Najib Rahman

Lung ultrasound to phenotype chronic lung allograft dysfunction in lung transplant recipients. A prospective observational study.
Jesper Romhild Davidsen (Odense C, Denmark), Christian B. Laursen, Mikkel Hajlund, Thomas Kromann Lund, Klaus Nielsen Jeschke, Martin Iversen, Anna Kalhauge, Elisabeth Bendstrup, Jørn Carlsen, Michael Perch, Daniel Pilsgaard Henriksen, Hans Henrik Lawaetz Schultz

Quality of prehospital thoracic ultrasound performed by paramedics
Pia Iben Pietersen (Odense NØ, Denmark), Søren Mikkelsen, Annmarie Lassen, Simon Helmerik, Gitte Jørgensen, Giti Nadim, Helle Marie Christensen, Daniel Wittrock, Christian Laursen

Ultrasound predictors of lung re-expansion following pleural effusion drainage
Maged Hassan (Alexandria, Egypt), Basma El-Shaarawy, Mohamed Y Al-Qaradawi, Mohamed Gadallah, Mahmoud Reda

High diagnostic yield of ultrasound-guided percutaneous needle biopsy of peripheral lung and pleural lesions, lymph nodes, and other sites performed by respiratory physicians
Christopher Lim (Melbourne, Australia), Sameer Karnam, Louis Irving, Gary Hammerschlag, John Taverner

Diaphragm strength in COVID-19 patients and breathlessness
Carlijn Veldman (Zwolle, Netherlands), Wytze de Boer, Carlijn Veldman, Irene Steenbruggen, Kornelis Wiebe Patberg, Jan Willem Karel Van Den Berg
Lung ultrasound aeration score for prognostication in invasively ventilated COVID-19 patients: multicenter observational study.

OA4345

Assessing the diagnostic accuracy of ultrasound-guided percutaneous cutting-needle pleural biopsy - A systematic review and meta-analysis

OA4346
Michael Pace Bardon (Swieqi, Malta), Nawaid Ahmad

Diagnostic accuracy of focused deep venous, lung, cardiac, and multiorgan ultrasound in suspected pulmonary embolism: a systematic review and meta-analysis

OA4347
Casper Falster (Odense, Denmark), Niels Jacobsen, Karen Coman, Mikkel Hajlund, Thomas Gaist, Stefan Posth, Jacob Møller, Mikkel Brabrand, Christian Laursen

Discussion
All Speakers

Symposium: Rare lung diseases 2021
A joint ERS and European Reference Network for rare lung diseases (ERN-LUNG) session

Aims: To describe aspects of rare diseases of the respiratory system that all members of respiratory care teams should be familiar with; to describe some of the new developments in the field of rare lung diseases in order to enable them help patients find expertise and the best clinical care; to explain how to cooperate across borders in order to achieve the best possible results for all patients everywhere; to present cross-border healthcare as an optimal way of providing diagnostic and therapeutic options to all patients with ultra-rare diseases; to provide an update about recent developments in rare disease management; to present tools for managing patients with rare diseases and to list who to ask for expert advice about such patients.

Disease(s): Airway diseases, Interstitial lung diseases, Paediatric respiratory diseases

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Radiologist, Respiratory therapist, Journalist

Chairs: Torsten Gerriet Blum (Berlin, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

11:15 - 12:45

Progress made in ultra-rare lung diseases
Maria Molina-Molina (Barcelona, Spain)

Severe sarcoidosis: clinical features and management
Paolo Spagnolo (Padova (PD), Italy)

Rare lung diseases in children: challenges for diagnosis and treatment
Helge Hebestreit (Wuerzburg, Germany)

What we have learned about alpha-1-antitrypsin deficiency
Jan Stolk (Leiden, Netherlands)

Discussion and Q&A
All Speakers

Hot topics: Linking scientific mechanisms to recent clinical therapeutic advances in airway disease: why, who, when and what?

Aims: To describe the role of novel therapies for airway diseases, namely, asthma, chronic obstructive pulmonary disease (COPD) and chronic cough; to describe the essential role of artificial intelligence, which will revolutionise how doctors follow and treat patients; to address common problems related to novel therapies and artificial intelligence in everyday practice in order to improve patient care.

Disease(s): Airway diseases

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Introduction</td>
<td>Omar S. Usmani, Anita Simonds (London, United Kingdom)</td>
</tr>
<tr>
<td>11:35</td>
<td>Who should receive which biologic and why? Current and future approaches in severe asthma patients</td>
<td>Parameswaran Nair (Hamilton (ON), Canada)</td>
</tr>
<tr>
<td>11:50</td>
<td>Will we ever be successful? Managing T2-low asthma</td>
<td>Anneke Ten Brinke (Leeuwarden, Netherlands)</td>
</tr>
<tr>
<td>12:05</td>
<td>What is the scientific and clinical rationale? Triple therapy in COPD patients</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>11:20</td>
<td>Will we really achieve anti-ageing lung treatments? Abnormal lung ageing in COPD</td>
<td>Corry-Anke Brandsma (Groningen, Netherlands)</td>
</tr>
<tr>
<td>12:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Studio London**

**Session 491**

**11:15 - 12:45**

**Hot topics: Inhale the future: ambulatory sensing technologies, digital biomarkers and explainable insights**

**Aims:** To describe the variety of remote approaches available to monitor COVID patients, including biological sampling; to review the validity (accuracy and precision) of remote data used for medical decision-making; to evaluate the optimal metrics for physical measurements such as saturation, lung function, temperature and pulse using wearable sensors and the potential to predict clinical decompensation; to assess the short- and long-term effects of this rapidly changing field with respect to routine care of patients with other diseases, including the use of machine learning and guidance.

**Disease(s):** Interstitial lung diseases, Respiratory infections

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

**Tag(s):** Clinical, COVID, Digital health

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs:** Thomas Geiser (Bern, Switzerland), Anh Tuan Dinh-Xuan (Paris, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>Telemedicine and virtual care in the era of COVID-19</td>
<td>Mara Paneroni (Mazzano (BS), Italy)</td>
</tr>
<tr>
<td>11:35</td>
<td>Data Quality Assessment in Wearable Technology</td>
<td>Carolina Varon (Leuven, Belgium)</td>
</tr>
<tr>
<td>11:50</td>
<td>Remote health monitoring with wearable sensors</td>
<td>Andrea Aliverti (Milan, Italy)</td>
</tr>
<tr>
<td>12:05</td>
<td>Opportunities and outstanding challenges for integration in clinical practice</td>
<td>Niels H. Chavannes (Leiden, Netherlands)</td>
</tr>
<tr>
<td>12:20</td>
<td>Discussion and Q&amp;A</td>
<td>All Speakers</td>
</tr>
</tbody>
</table>

**Studio Munich**

**Session 492**

**11:15 - 12:45**

**Lungs on fire: LoF Respiratory infections?**

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Nurse, Medical Student
### Studio Paris Session 493 11:15 - 12:45

**Grand round: Paediatric grand round**

**Aims:** To present challenging cases of children with respiratory diseases, not specifically very rare diseases; to engage the audience in discussions about differential diagnosis, diagnostic tests and the best clinical care; to provide an update on selected topics in paediatric respiratory medicine.

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

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

**Tag(s):** Clinical

**Target audience:** Medical Student, Paediatrician, Clinical researcher, Nurse, Physician in Pulmonary Training

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Andrew Bush (London, United Kingdom)

<table>
<thead>
<tr>
<th>11:15</th>
<th>Introduction</th>
<th>4374</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20</td>
<td>Spontaneous pneumoperitoneum: do I remove the chest drain?</td>
<td>George Lawson (London, United Kingdom)</td>
</tr>
<tr>
<td>11:40</td>
<td>A case of chylothorax at the age of 13 months</td>
<td>Heidi Schaballie (Belsele, Belgium)</td>
</tr>
<tr>
<td>12:00</td>
<td>Bilateral interstitial pneumonia in an 8-year-old boy: not only COVID-19!</td>
<td>Maria Elisa Di Cicco (Pisa (PI), Italy)</td>
</tr>
<tr>
<td>12:20</td>
<td>A 9-year-old boy with a swelling on the chest wall</td>
<td>Tamsin Thornton (Norwich, United Kingdom)</td>
</tr>
<tr>
<td>12:40</td>
<td>Session wrap-up</td>
<td>4379</td>
</tr>
</tbody>
</table>
### Acetazolamide effect on nocturnal oxygenation, breathing and sleep in healthy individuals older than 40 years. RCT.
Laura Graf (Zürich, Switzerland), Michael Furian, Bitos Konstantinos, Maamed Mademilov, Ainura Abdraeva, Jana Buenzli, Shoria Aydaralieva, Ulan Sheraliev, Nuriddin H Marazhapov, Talant M Sooronbaev, Silvia Ulrich, Konrad E Bloch

### Safety and efficacy of sulthiame in moderate to severe obstructive sleep apnea: a randomized placebo-controlled parallel-group trial
Jan A. Hedner (Göteborg, Sweden), Kaj Stenlof, Zou Ding, Erik Hoff, Corinna Hansen, Katrin Kuhn, Peter Lennartz, Ludger Grote

### Moderate obstructive sleep apnea and cardiovascular outcomes in elder patients: a propensity score matched, multicentric study (CPAGE-MODE study)
Jose Rafael Teran Tinajo (Madrid, Spain), Fabian Cano Pumarega, Trinidad Diaz Cambriles, Aldara Garcia Sanchez, Teresa Gomez Garcia, Pedro Landete Rodriguez, Vaneza Lores Gutierrez, Eva Manas Baena, Maria Fernandez Troncoso Acevedo, Enrique Zamora Garcia, Daniel Lopez Padilla

### The effect of obstructive sleep apnoea on the retinal vascular reactivity: a randomised trial
Christopher Turnbull (Oxford (Oxfordshire), United Kingdom), Rebekka Heitmar, John Stradling

### Cheyne-Stokes respiration tracked by CPAP telemonitoring can detect serious cardiac events
Arnaud Prigent (Rennes, France), Claude Pellen, Joelle Texereau, Sebastien Bailly, Nicolas Coquerel, Renaud Gervais, Jean Marc Liegaux, Regis Luraine, Jean Christophe Renaud, Serandour Anne Laure, Jean Louis Pepin

### Rates of CPAP therapy termination in different obstructive sleep apnoea patient phenotypes: analysis of the French nationwide health claims database
Jean-Louis Pepin (Grenoble, France), Sebastien Bailly, Pierre Rinder, Dan Adler, Daniel Szeftel, Atul Malhotra, Peter Cistulli, Adam Benjafield, Florent Lavergne, Anne Josseran, Renaud Tamisier, Pierre Hornus

### Natural course of untreated obstructive sleep apnoea in patients with coronary artery disease in the RICCADSA trial
Yuksel Peker (Istanbul, Turkey), Mustafa Saygin, Erik Thunstrom, Patrick J Strollo Jr

### Prolonged symptoms and sleep quality after hospitalization for covid-19 in patients with obstructive sleep apnoea
Iana Andreieva (Zaporizhia, Ukraine)

### Late Breaking Abstract - CPAP termination and all-cause mortality: a French nationwide database analysis
Jean-Louis Pepin (Grenoble, France), Sebastien Bailly, Florent Lavergne, Pierre Rinder, Dan Adler, Adam Benjafield, Anne Josseran, Paul Sinel Boucher, Renaud Tamisier, Peter Cistulli, Atul Malhotra, Pierre Hornus

### Discussion
All Speakers

---

### Studio Amsterdam
Session 495  12:45 - 13:00
Breakout room: Breakout room: Symposium, Rare lung diseases 2021
**Chairs:** Charles Wong (Hong Kong, Hong Kong), Maria Molina-Molina (Barcelona, Spain), Paolo Spagnolo (Padova (PD), Italy), Helge Hebestreit (Wuerzburg, Germany), Jan Stolk (Leiden, Netherlands)

### Studio Barcelona
Session 496  12:45 - 13:00
Breakout room: Breakout room: Hot topics, Linking scientific mechanisms to recent clinical therapeutic advances in airway disease: why, who, when and what?
**Chairs:** Parameswaran Nair (Hamilton (ON), Canada), Anneke Ten Brinke (Leeuwarden, Netherlands), Dave Singh (Manchester, United Kingdom), Corry-Anke Brandsma (Groningen, Netherlands), Merian Kuipers (Den Haag, Netherlands)

### Studio London
Session 497  12:45 - 13:00
Breakout room: Breakout room: Hot topics, Inhale the future: ambulatory sensing technologies, digital biomarkers and explainable insights
**Chairs:** Johnatas Silva (Belfast (Northern Ireland), United Kingdom), Mara Paneroni (Mazzano (BS), Italy), Carolina Varon (Leuven, Belgium), Andrea Aliverti (Milan, Italy), Niels H. Chavannes (Leiden, Netherlands)

### Studio Munich
Session 498  12:45 - 13:00
Breakout room: Breakout room: Lungs on fire, LoF Respiratory infections?
**Chairs:** Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Pierre-Régis Burgel (Paris, France)

### Studio Paris
Session 499  12:45 - 13:00
Breakout room: Breakout room: Grand round, Paediatric grand round
Chairs: Dilber Ademhan Tural (Ankara, Turkey), George Lawson (London, United Kingdom), Heidi Schaballie (Belsele, Belgium), Maria Elisa Di Cicco (Pisa (PI), Italy), Tamsin Thornton (Norwich, United Kingdom)
<table>
<thead>
<tr>
<th>No Room</th>
<th>Session 501</th>
<th>11:00 - 13:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembly members' meeting: ONLINE ERS General Assembly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
INDUSTRY SPONSORED SESSIONS
### Industry Virtual Symposium: Treatable Traits in Action – Patients, Decisions and Data

**Organised by GlaxoSmithKline**

**Chairs:** Peter Gibson (Newcastle, Australia), Neil C. Barnes (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Channel 1: Session 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:45</td>
<td>Welcome and introduction</td>
<td>Peter Gibson (Newcastle, Australia)</td>
<td>45</td>
</tr>
<tr>
<td>07:52</td>
<td>Confronting difficult-to-treat asthma: The case of a 38-year-old lady with allergies</td>
<td>Runa Ali (London, United Kingdom)</td>
<td>46</td>
</tr>
<tr>
<td>08:02</td>
<td>Optimising symptomatic COPD: The case of a 69-year-old ex-smoker with symptoms and exacerbations</td>
<td>Alberto Papi (Ferrara, Italy)</td>
<td>47</td>
</tr>
<tr>
<td>08:19</td>
<td>Breaking it down: The case of a 67-year-old ex-smoker with COPD, atopy and angina</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)</td>
<td>48</td>
</tr>
<tr>
<td>08:35</td>
<td>Treatable Traits approach in primary care: The case of a patient with mild asthma but poor control</td>
<td>Mike Thomas (Southampton (Hampshire), United Kingdom)</td>
<td>49</td>
</tr>
<tr>
<td>08:49</td>
<td>Summary and conclusion</td>
<td>Neil C. Barnes (London, United Kingdom)</td>
<td>50</td>
</tr>
<tr>
<td>08:50</td>
<td>Q&amp;A session</td>
<td>Neil C. Barnes (London, United Kingdom)</td>
<td>51</td>
</tr>
</tbody>
</table>

### Industry Virtual Symposium: Innovations in MAC-PD: beyond oral triple therapy

**Organised by Insmed**

**Chairs:** Michael Loebinger (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Channel 2: Session 39</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:15</td>
<td>Symposium overview and introduction</td>
<td>Michael Loebinger (London, United Kingdom)</td>
<td>52</td>
</tr>
<tr>
<td>08:20</td>
<td>What do the 2020 NTM-PD guidelines mean for clinical practice when treating MAC-PD?</td>
<td>Christoph Lange (Borstel, Germany)</td>
<td>53</td>
</tr>
<tr>
<td>08:35</td>
<td>Managing your MAC-PD patient - negotiating the key decision points</td>
<td>Natalie Lorent (Leuven, Belgium)</td>
<td>54</td>
</tr>
<tr>
<td>08:50</td>
<td>Antibiotic therapy for MAC-PD: managing common side-effects</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
<td>55</td>
</tr>
<tr>
<td>09:05</td>
<td>Q&amp;A</td>
<td>Michael Loebinger (London, United Kingdom), Christoph Lange (Borstel, Germany), Natalie Lorent (Leuven, Belgium), Stefano Aliberti (Milano (MI), Italy)</td>
<td>56</td>
</tr>
<tr>
<td>09:10</td>
<td>Summary and Close</td>
<td>Michael Loebinger (London, United Kingdom)</td>
<td>57</td>
</tr>
</tbody>
</table>

### Industry Virtual Symposium: Latest asthma guidelines: challenges for policy and practice

**Organised by AstraZeneca**

**Chairs:** Eric D. Bateman (Cape Town, South Africa)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Channel 2: Session 78</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Chair's welcome</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>263</td>
</tr>
<tr>
<td>13:10</td>
<td>Anti-inflammatory reliever algorithm: implementing changes in clinical practice</td>
<td>Richard Beasley (Wellington, New Zealand)</td>
<td>264</td>
</tr>
<tr>
<td>13:25</td>
<td>SABINA: the asthma reliever ‘pandemic’</td>
<td>Jennifer Quint (Wimbledon, United Kingdom)</td>
<td>265</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker Details</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>13:40</td>
<td>The SABA situation: changing the status quo</td>
<td>Andrew Mcivor (Oakville (ON), Canada)</td>
<td></td>
</tr>
<tr>
<td>13:55</td>
<td>The patient perspective: why we need to change now</td>
<td>Tonya Winders (Hendersonville, United States of America)</td>
<td></td>
</tr>
<tr>
<td>14:10</td>
<td>Audience Q&amp;A</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td></td>
</tr>
</tbody>
</table>

**Channel 4. Session 80**  13:00 - 14:30

**Industry Virtual Symposium: MDT in fibrosing ILDs: who and when?**

*Organised by Boehringer Ingelheim International GmbH*

**Chairs:** Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome and introduction</td>
<td>Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)</td>
</tr>
<tr>
<td>13:05</td>
<td>MDT in diagnosis: panel discussion</td>
<td>Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)</td>
</tr>
<tr>
<td>13:20</td>
<td>MDT in monitoring: panel discussion</td>
<td>Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)</td>
</tr>
<tr>
<td>13:35</td>
<td>MDT in management: panel discussion</td>
<td>Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)</td>
</tr>
<tr>
<td>13:50</td>
<td>Live Q&amp;A</td>
<td>Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America), Vanessa Smith (Ghent, Belgium), Simon Walsh (London, United Kingdom)</td>
</tr>
</tbody>
</table>

**Channel 5. Session 81**  13:00 - 14:15

**Industry Virtual Symposium: Connecting Type 2 Inflammation to Clinical Management of Pediatric Severe Asthma**

*Organised by Sanofi Genzyme and Regeneron*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Clinical Perspectives on the Burden of Pediatric Severe Asthma</td>
<td>Eckard Hamelmann (Bielefeld, Germany)</td>
</tr>
<tr>
<td>13:20</td>
<td>Type 2 Inflammation Underpins Phenotypes of Pediatric Severe Asthma</td>
<td>Nikolaos Papadopoulos (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>13:40</td>
<td>Management Considerations for Biologic Use in Pediatric Severe Asthma Patients</td>
<td>Giorgio Piacentini (Verona (VR), Italy)</td>
</tr>
<tr>
<td>14:00</td>
<td>Question and Answer</td>
<td>Giorgio Piacentini (Verona (VR), Italy), Eckard Hamelmann (Bielefeld, Germany)</td>
</tr>
</tbody>
</table>

**Channel 6. Session 82**  13:00 - 14:30

**Industry Virtual Symposium: Omalizumab in focus: experts, evidence and experience**

*Organised by Novartis Pharma AG*

**Chairs:** Nikolaos Papadopoulos (Manchester, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Omalizumab in focus: experts, evidence and experience</td>
<td>Nikolaos Papadopoulos (Manchester, United Kingdom)</td>
</tr>
</tbody>
</table>

**Skills Lab. Session 142**  15:30 - 16:15

**Industry Skills Lab Workshop: Pediatric Noninvasive Ventilation: Modes and Settings**

*Organised by Philips*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30</td>
<td>Modes and settings specific to the pediatric patient</td>
<td>Uros Krivec (Ljubljana, Slovenia)</td>
<td>1268</td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>Trilogy Evo demonstration of the modes for pediatric ventilation</td>
<td>Ivana Sundov (Zapresic, Croatia)</td>
<td>1269</td>
<td></td>
</tr>
<tr>
<td>16:06</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Skills Lab.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>153</td>
<td><strong>Session 153</strong></td>
<td></td>
<td>16:30 - 17:15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industry Skills Lab Workshop: Flexible cryo applications: state of the art and future perspectives</td>
<td>Organised by Erbe Elektromedizin GmbH</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chairs: Niklas Froemmel (Tuebingen, Germany), Jürgen Hetzel (Tuebingen, Germany), Felix J.F. Herth (Heidelberg, Germany)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30</td>
<td><strong>Introduction</strong></td>
<td>Niklas Froemmel (Tuebingen, Germany)</td>
<td>1329</td>
<td></td>
</tr>
<tr>
<td>16:35</td>
<td><strong>Flexible cryo applications: State of the art</strong></td>
<td>Jürgen Hetzel (Tuebingen, Germany)</td>
<td>1330</td>
<td></td>
</tr>
<tr>
<td>16:50</td>
<td><strong>Flexible cryo applications: Future perspectives</strong></td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>1331</td>
<td></td>
</tr>
<tr>
<td>17:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Jürgen Hetzel (Tuebingen, Germany), Felix J.F. Herth (Heidelberg, Germany), Niklas Froemmel (Tuebingen, Germany)</td>
<td>1332</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Session 160</strong></td>
<td></td>
<td>17:30 - 18:15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industry Skills Lab Workshop: PENTAX Medical ONE Pulmo: The single-use bronchoscope enhancing pulmonary care</td>
<td>Organised by PENTAX Europe GmbH</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chairs: Erik H.F.M. van der Heijden (Nijmegen, Netherlands)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:30</td>
<td><strong>Introduction of PENTAX Medical ONE Pulmo, the single-use bronchoscope</strong></td>
<td>SATSUKI AMANO (TOKYO, Japan)</td>
<td>4380</td>
<td></td>
</tr>
<tr>
<td>17:40</td>
<td><strong>Role of single-use bronchoscopes in respiratory care</strong></td>
<td>Erik H.F.M. van der Heijden (Nijmegen, Netherlands)</td>
<td>4381</td>
<td></td>
</tr>
<tr>
<td>17:50</td>
<td><strong>Clinical case 1: Single-use bronchoscopy</strong></td>
<td>Erik H.F.M. van der Heijden (Nijmegen, Netherlands)</td>
<td>4382</td>
<td></td>
</tr>
<tr>
<td>17:55</td>
<td><strong>Clinical case 2: Single-use navigation bronchoscopy</strong></td>
<td>Erik H.F.M. van der Heijden (Nijmegen, Netherlands)</td>
<td>4383</td>
<td></td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Q&amp;A session</strong></td>
<td>SATSUKI AMANO (TOKYO, Japan)</td>
<td>4384</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Session 167</strong></td>
<td></td>
<td>18:15 - 19:45</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chairs: Neil C. Barnes (London, United Kingdom)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18:15</td>
<td><strong>Introduction</strong></td>
<td>Neil C. Barnes (London, United Kingdom)</td>
<td>1386</td>
<td></td>
</tr>
<tr>
<td>18:18</td>
<td><strong>Who should start with dual- versus mono- bronchodilator therapy?</strong></td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
<td>1387</td>
<td></td>
</tr>
<tr>
<td>18:31</td>
<td><strong>Which patients should receive ICS-containing therapy?</strong></td>
<td>Jean Bourbeau (Montréal (QC), Canada)</td>
<td>1388</td>
<td></td>
</tr>
</tbody>
</table>
### Channel 2.  
**Session 168**  
18:15 - 19:45

*Industry Virtual Symposium: Uncovering eosinophilic immune dysfunction in airways diseases*

*Organised by AstraZeneca*

**Chairs:** James D. Chalmers (Dundee (Angus), United Kingdom), Sameer Mathur (Wisconsin, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome and introduction</td>
<td>James D. Chalmers</td>
</tr>
<tr>
<td>18:20</td>
<td>Introduction to the role of eosinophils in respiratory diseases and common eosinophilic airways conditions</td>
<td>Sameer Mathur (Wisconsin, United States of America)</td>
</tr>
<tr>
<td>18:40</td>
<td>Uncovering the eosinophilic phenotype in bronchiectasis</td>
<td>James D. Chalmers</td>
</tr>
<tr>
<td>19:00</td>
<td>Examination of the eosinophil predominant multisystem disorder – hypereosinophilic syndrome</td>
<td>Matthieu Groh (Suresnes, France)</td>
</tr>
<tr>
<td>19:20</td>
<td>Q&amp;A session and meeting close</td>
<td>Sameer Mathur (Wisconsin, United States of America)</td>
</tr>
</tbody>
</table>

### Channel 3.  
**Session 169**  
18:15 - 19:45

*Industry Virtual Symposium: Preventing mortality and protecting patients with COPD: a multidisciplinary perspective*

*Organised by AstraZeneca*

**Chairs:** Bartolome R. Celli Croquer (Boston, United States of America), Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome, introduction, and opening remarks</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
<tr>
<td>18:20</td>
<td>Protecting patients: early intervention as a new paradigm in the COPD treatment landscape</td>
<td>David Berg (Boston, United States of America)</td>
</tr>
<tr>
<td>18:40</td>
<td>Panel discussion Protecting patients: early intervention as a new paradigm in the COPD treatment landscape</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>18:55</td>
<td>Preventing disease progression and reducing mortality risk: tools to challenge current clinical practice in COPD</td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
</tr>
<tr>
<td>19:05</td>
<td>Panel discussion Preventing disease progression and reducing mortality risk: tools to challenge current clinical practice in COPD</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
<tr>
<td>19:20</td>
<td>Audience Q&amp;A and concluding remarks</td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
</tr>
</tbody>
</table>

### Channel 4.  
**Session 170**  
18:15 - 19:45

*Industry Virtual Symposium: Helping patients with COPD live their best lives: Outcomes and evidence*

*Organised by Boehringer Ingelheim International GmbH*

**Chairs:** Sarah Jarvis (London, United Kingdom)
Industry Virtual Symposium: Dupilumab Long-Term Impact on Patient Outcomes in Severe Asthma
Organised by Sanofi Genzyme and Regeneron

18:15 Opening Remarks
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America) 1407

18:20 Emerging Evidence from TRAVERSE: Long-term Safety and Efficacy of Dupilumab in Uncontrolled, Severe Type 2 Asthma
Klaus F. Rabe (Kiel, Germany) 1408

18:40 Panel Discussion: Impressions and Implications for Patient Management
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America) 1409

18:55 Audience Q&A
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America) 1410

19:10 Dupilumab Experience in Practice: Gaining and Sustaining Improvement in Patient Outcomes and HRQoL
Jonathan Corren (Los Angeles, United States of America) 1411

19:25 Audience Q&A
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America) 1412

19:40 Closing Remarks
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America) 1413

Industry Virtual Symposium: Connect, confirm, combine in pulmonary arterial hypertension
Organised by Janssen Pharmaceutica NV

18:15 Welcome and objectives
Sean Gaine (Dublin, Ireland) 1414

18:23 Connecting and collaborating with expert centres
Pilar Escribano-Subias (Madrid, Spain) 1415

18:35 Confirming the diagnosis
Harm Jan Bogaard (Amsterdam, Netherlands) 1416

18:55 Combining therapies: Having a “PAH plan”
Luke Howard (London, United Kingdom) 1417

19:15 Panel discussion with audience Q&A
Sean Gaine (Dublin, Ireland), Pilar Escribano-Subias (Madrid, Spain), Harm Jan Bogaard (Amsterdam, Netherlands), Luke Howard (London, United Kingdom), Marion Delcroix (Leuven, Belgium) 1418

19:40 Key messages and closing remarks
Marion Delcroix (Leuven, Belgium) 1419
Channel 1.  
Session 173  
20:00 - 21:30

Industry Virtual Symposium: COPD PATIENTS DESERVE MORE: The Time To Act Is Now
Organised by Menarini group

Chairs: Claus Vogelmeier (Marburg, Germany), Alvar Agusti (Barcelona, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td>Introduction by the Chairman</td>
<td>Alvar Agusti (Barcelona, Spain)</td>
</tr>
<tr>
<td>20:05</td>
<td>COPD patients deserve more</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
<tr>
<td>20:20</td>
<td>Acting Early on COPD Exacerbations: Why and How?</td>
<td>Alberto Papi (Ferrara, Italy)</td>
</tr>
<tr>
<td>20:35</td>
<td>Fixed Triple Therapies in COPD: An opportunity to live Longer and Better</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>20:50</td>
<td>What's next?</td>
<td>Alvar Agusti (Barcelona, Spain)</td>
</tr>
<tr>
<td>21:00</td>
<td>Q&amp;A and Chair’s close</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
</tbody>
</table>

Channel 2.  
Session 174  
20:00 - 21:30

Industry Virtual Symposium: Digital support for wheeze detection in young children
Organised by OMRON Healthcare Europe B.V.

Chairs: Jonathan Grigg (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td>Introduction</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
</tr>
<tr>
<td>20:05</td>
<td>Wheeze detection in daily practice</td>
<td>Willem van Aalderen (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>20:20</td>
<td>Overcoming limitations of therapeutic trials on preschool wheeze</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
</tr>
<tr>
<td>20:40</td>
<td>Impact and usability of a digital wheeze detector in a home care setting – a pilot study</td>
<td>Stephanie Dramburg (Berlin, Germany)</td>
</tr>
<tr>
<td>21:00</td>
<td>Q&amp;A</td>
<td>Jonathan Grigg (London, United Kingdom)</td>
</tr>
</tbody>
</table>

Channel 3.  
Session 175  
20:00 - 21:00

Organised by Grifols

Chairs: Francesco Blasi (Milan, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td>Welcome and introduction</td>
<td>Francesco Blasi (Milan, Italy)</td>
</tr>
<tr>
<td>20:05</td>
<td>Is there a greater role for alpha-1 antitrypsin in COVID-19?</td>
<td>Noel Gerard McElvaney (Dublin, Ireland)</td>
</tr>
<tr>
<td>20:20</td>
<td>Management of AATD patients during the Corona pandemic</td>
<td>Christian F. Clarenbach (Zürich, Switzerland)</td>
</tr>
<tr>
<td>20:30</td>
<td>Screening for AATD: Faster results with the latest testing methodology</td>
<td>Jose Luis López-Campos (Sevilla, Spain)</td>
</tr>
<tr>
<td>20:45</td>
<td>ALTA AWARD WINNERS 2021</td>
<td>Noel Gerard McElvaney (Dublin, Ireland)</td>
</tr>
</tbody>
</table>
### Channel 4.  Session 176  20:00 - 21:30

**Industry Virtual Symposium: Toward a New Era in Bronchoscopy and Medical Thoracoscopy**

*Organised by Olympus Europa SE & Co. KG*

**Chairs:** Felix J.F. Herth (Heidelberg, Germany)

- **20:00** Device improvements - What matters in daily practice?  
  Felix J.F. Herth (Heidelberg, Germany)

- **20:35** A new thoracoscope for the pulmonologist: Patient selection and procedural benefits  
  Mohammed Munavvar (Preston (Lancashire), United Kingdom)

- **21:00** Q&A  
  Felix J.F. Herth (Heidelberg, Germany), Mohammed Munavvar (Preston (Lancashire), United Kingdom)

### Channel 5.  Session 177  20:00 - 21:30

**Industry Virtual Symposium: Chronic cough & refractory chronic cough: Preparing for the future**

*Organised by MSD*

**Chairs:** Christian Domingo Ribas (Sabadell (Barcelona), Spain)

- **20:00** Opening remarks  
  Christian Domingo Ribas (Sabadell (Barcelona), Spain)

- **20:10** Dysregulation of the cough reflex at three anatomical levels; airways, sensory nerves and CNS  
  Brendan Canning (Baltimore, United States of America)

- **20:35** Chronic cough and refractory chronic cough - patient identification and management  
  Imran Satia (Hamilton, Canada)

- **21:00** Q&A and panel discussion

### Channel 6.  Session 178  20:00 - 21:00

**Industry Virtual Symposium: The role of Bronchiectasis and COPD as Risk Factors for MAC Lung Disease: Critical Advances in Disease Stratification and Recent International Guidelines for Antimicrobial Management**

*Organised by Insmed*

**Chairs:** Christoph Lange (Borstel, Germany), Charles Daley (Denver, United States of America)

- **20:00** Patient Identification, Selection, and Timing of Antimicrobial Treatment in the Context of Year 2020 ERS/ATS/ESCMID/IDSA Guideline-Based Therapy for MAC Lung Disease: New Guidance for Treatment of High Risk and Refractory Disease  
  Christoph Lange (Borstel, Germany)

- **20:10** Optimizing Management of MAC Lung Disease with Guideline-Based Therapy: Current, Evidence-Based Recommendations and Applying the Year 2020 ATS/IDSA/ERS/ESCMID Guidelines and Treatment Plans to the Front Lines of Patient Care for MAC Pulmonary Disease  
  Charles Daley (Denver, United States of America)

- **20:20** From Clinical Suspicion and Co-Morbid Risk Factors to Diagnostic Confirmation of MAC Lung Disease: Focus on New Approaches to Systematic Microbiological Confirmation, Risk Stratification, Severity Score Indexes, and Recognizing Refractory Disease  
  Stefano Aliberti (Milano (MI), Italy)

- **20:30** Evidence for Prompt, Intensive Intervention in Risk Appropriate Patients with MAC Lung Disease: Importance of Patient Dialogue, Risk Assessment, Detection of Refractory Disease, and Determining When Antimicrobial Treatment is More Prudent than “Watch and Wait”  
  Christoph Lange (Borstel, Germany)
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:40</td>
<td>From Landmark Trials to Evidence-Based Therapy for Resistant, Refractory, High Risk and/or Challenging Patients with MAC Lung Infection — The Role, Safety, Indications, Evidence, and Efficacy of Novel, Inhaled Antimicrobial Formulations</td>
<td>Rachel Thomson (Brisbane (QLD), Australia)</td>
<td>1451</td>
</tr>
<tr>
<td>20:50</td>
<td>Real World Case Management: The Faculty Analyze, Evaluate, and Manage a Patient with Advanced MAC Lung Disease/Refractory Features</td>
<td>Christoph Lange (Borstel, Germany), Charles Daley (Denver, United States of America)</td>
<td>1452</td>
</tr>
</tbody>
</table>
Channel 1. Session 179 07:45 - 09:15

Industry Virtual Symposium: The End of the Beginning? Integrating the care of COVID-19 patients into ongoing day-to-day respiratory practice

*Organised by GlaxoSmithKline*

**Chairs:** Tobias Welte (Hannover, Germany), Alvar Agusti (Barcelona, Spain)

**07:45** Welcome, introductions, meeting objectives and where we are with COVID-19
Tobias Welte (Hannover, Germany)

**07:55** Patients at risk of COVID-19: what about patients with respiratory chronic conditions?
Tobias Welte (Hannover, Germany)

**08:05** Treatment of COVID-19 - different for respiratory patients?
Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)

**08:25** How do we implement our learnings into future respiratory practice?
Alvar Agusti (Barcelona, Spain)

**08:40** Summary
Alvar Agusti (Barcelona, Spain)

**08:45** Q&A
Tobias Welte (Hannover, Germany), Alvar Agusti (Barcelona, Spain)

Channel 2. Session 180 07:45 - 09:15

Industry Virtual Symposium: Relegating oral corticosteroids to a last resort in asthma: how do we transform clinical practice?

*Organised by AstraZeneca*

**Chairs:** Andrew Menzies-Gow (London, United Kingdom), Tonya Winders (Hendersonville, United States of America)

**07:45** The severe asthma treatment landscape: how can we push our progress further?
Andrew Menzies-Gow (London, United Kingdom)

**08:00** Addressing evidence gaps: the latest data for relegating OCS to a last resort
David Price (Singapore, Singapore)

**08:15** Transforming care in severe asthma with PRECISION: a US perspective on OCS Stewardship
David Beuther (Denver, United States of America)

**08:30** Reshaping asthma care pathways: practical tools for delivering OCS Stewardship
Janwillem W. H. Kocks (Groningen, Netherlands)

**08:45** Panel discussion and audience Q&A
Andrew Menzies-Gow (London, United Kingdom)

Channel 3. Session 181 07:45 - 09:15

Industry Virtual Symposium: Challenges in the management of chronic respiratory diseases during SARS-Cov-2 pandemic: from prevention to post-acute impairment.

*Organised by Zambon Spa*

**Chairs:** Alberto Papi (Ferrara, Italy)

**07:45** Introduction
Alberto Papi (Ferrara, Italy)

**07:50** Oxidative stress in chronic respiratory diseases. Homeostasis and Prevention
Alberto Papi (Ferrara, Italy)

**08:10** COVID-19 in patients with lung diseases: management dilemmas
Joan B Soriano (Madrid, Spain)

**08:30** Respiratory sequelae of COVID-19: treatment dilemmas
Luca Richeldi (Roma, Italy)
### Skills Lab. Session 182 08:00 - 08:45

**Industry Skills Lab Workshop: Narval CC oral appliance: a good alternative for treating severe OSA patients**  
*Organised by ResMed*

**Chairs:** guillaume buiret (France), Valentin Karène (France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Clinical results focused on severe OSA patients, in both the short and long term</td>
<td>guillaume buiret (France)</td>
</tr>
<tr>
<td>08:15</td>
<td>Mandibular Advancement Device predictive success factors</td>
<td>guillaume buiret (France)</td>
</tr>
<tr>
<td>08:25</td>
<td>Insights into patient experience: equipment process and long-term tolerability</td>
<td>guillaume buiret (France)</td>
</tr>
<tr>
<td>08:35</td>
<td>LIVE Q/A session</td>
<td>guillaume buiret (France)</td>
</tr>
</tbody>
</table>

### Skills Lab. Session 183 09:00 - 09:45

**Industry Skills Lab Workshop: Digital threats in pneumology – Identify, Prepare, Act!**  
*Organised by Vyaire Medical GmbH*

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Digital threats in pneumology – Identify, Prepare, Act!</td>
<td>Holger Schmitt (Hoechberg, Germany), Timo Kosig</td>
</tr>
<tr>
<td>09:35</td>
<td>LIVE Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 1. Session 221 13:00 - 14:30

**Industry Virtual Symposium: ACT Now – Not so APPaRENT challenges in asthma management**  
*Organised by GlaxoSmithKline*

**Chairs:** Kenneth R. Chapman (Toronto (ON), Canada)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Introduction</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
<tr>
<td>13:05</td>
<td>Physicians, would you know how to ACT?</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
<tr>
<td>13:25</td>
<td>A patient perspective on asthma control - not so APPaRENT?</td>
<td>Kim Lavoie (Montréal (QC), Canada)</td>
</tr>
<tr>
<td>13:40</td>
<td>A call to ACTION – breaking down the barriers to asthma control</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
</tr>
<tr>
<td>13:55</td>
<td>Summary</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
<tr>
<td>14:00</td>
<td>Q&amp;A</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
</tbody>
</table>

### Channel 2. Session 222 13:00 - 14:30

**Industry Virtual Symposium: Epithelial cytokines: fundamental to the pathobiology of asthma**  
*Organised by AstraZeneca and Amgen*

**Chairs:** Guy Brusselle (Ghent, Belgium), Celeste Michala Porsbjerg (Copenhagen, Denmark)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Co-chairs’ welcome</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>13:03</td>
<td>Inflammation starts at the epithelium: the role of the epithelium in patients</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
</tr>
<tr>
<td>13:23</td>
<td>Panel Q&amp;A</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>13:33</td>
<td>Epithelial cytokines: a new way to think about inflammation in asthma?</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>13:53</td>
<td>Panel Q&amp;A</td>
<td>Marco Caminati (Verona (VR), Italy)</td>
</tr>
<tr>
<td>14:03</td>
<td>Audience Q&amp;A</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
</tr>
<tr>
<td>14:28</td>
<td>Meeting close</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
</tr>
</tbody>
</table>

### Channel 3. Session 223 13:00 - 14:10

**Industry Virtual Symposium: The Importance of Vaccinating Against Respiratory Tract Infections in Adults**

*Organised by Pfizer*

*Chairs*: Christian Theilacker (Berlin, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome and Introductions</td>
<td>Christian Theilacker (Berlin, Germany)</td>
</tr>
<tr>
<td>13:05</td>
<td>Adult Pneumococcal Vaccination in an Evolving Landscape</td>
<td>Andrea Collins (Cheshire, United Kingdom)</td>
</tr>
<tr>
<td>13:25</td>
<td>Pneumococcal Panel Discussion</td>
<td>Christian Theilacker (Berlin, Germany), Andrea Collins (Cheshire, United Kingdom)</td>
</tr>
<tr>
<td>13:35</td>
<td>Clinical Development and Real-World Effectiveness of Pfizer-BioNTech COVID-19</td>
<td>John McLaughlin (Wayne, United States of America)</td>
</tr>
<tr>
<td>13:55</td>
<td>Covid-19 Question &amp; Answer Session</td>
<td>Christian Theilacker (Berlin, Germany), John McLaughlin (Wayne, United States of America)</td>
</tr>
<tr>
<td>14:05</td>
<td>Closing Remarks</td>
<td>Christian Theilacker (Berlin, Germany)</td>
</tr>
</tbody>
</table>

### Channel 4. Session 224 13:00 - 14:30

**Industry Virtual Symposium: Treating COPD today: Where are the challenges and what are the solutions?**

*Organised by Boehringer Ingelheim International GmbH*

*Chairs*: Sarah Jarvis (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome and introduction</td>
<td>Sarah Jarvis (London, United Kingdom)</td>
</tr>
<tr>
<td>13:05</td>
<td>Challenge 1: Recognising the burden of disease</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>13:05</td>
<td>Challenge 2: Optimising pharmacological and non-pharmacological interventions</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
</tr>
<tr>
<td>13:05</td>
<td>Challenge 3: Matching patients and inhalers</td>
<td>Arschang Valipour (Wien, Austria)</td>
</tr>
<tr>
<td>14:10</td>
<td>Q&amp;A, discussion and closing comments</td>
<td>Sarah Jarvis (London, United Kingdom)</td>
</tr>
</tbody>
</table>
## ERS Virtual International Congress 2021
### INDUSTRY SPONSORED SESSIONS
#### MONDAY 06 SEPTEMBER, 2021

### Channel 5. Session 225 13:00 - 14:30
**Industry Virtual Symposium: Healthcare-associated infections in the ICU: Clinical trials and COVID tribulations?**
*Organised by MSD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
<th>Location(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td><strong>Opening remarks</strong></td>
<td>Matteo Bassetti (Genova, Italy), Antoni Torres Marti (Barcelona, Spain)</td>
<td></td>
</tr>
<tr>
<td>13:05</td>
<td>The metamorphosis of ICU infections by COVID-19?</td>
<td>Souha Kanj Sharara (Beirut, Lebanon)</td>
<td></td>
</tr>
<tr>
<td>13:23</td>
<td>Management of gram-negative pneumonia in the ICU: What’s new and improved?</td>
<td>Tobias Welte (Hannover, Germany)</td>
<td></td>
</tr>
<tr>
<td>13:41</td>
<td>Antibiotic resistance: Have the new drugs met the challenge?</td>
<td>Ignacio Martin-Loeches (Dublin, Ireland)</td>
<td></td>
</tr>
<tr>
<td>13:59</td>
<td>Panel discussion</td>
<td>Souha Kanj Sharara (Beirut, Lebanon), Tobias Welte (Hannover, Germany), Ignacio Martin-Loeches (Dublin, Ireland)</td>
<td></td>
</tr>
<tr>
<td>14:24</td>
<td>Closing remarks</td>
<td>Matteo Bassetti (Genova, Italy), Antoni Torres Marti (Barcelona, Spain)</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 6. Session 226 13:00 - 14:30
**Industry Virtual Symposium: Inhalation therapy science and climate change: a step forward in asthma**
*Organised by Novartis Pharma AG*

**Chairs:** David Price (Singapore, Singapore)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
<th>Location(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Inhalation therapy science and climate change: a step forward in asthma: Part 1 - Inhaled therapy science a step forward</td>
<td>David Price (Singapore, Singapore)</td>
<td></td>
</tr>
<tr>
<td>13:45</td>
<td>Inhalation therapy science and climate change: a step forward in asthma: Part 2 - A greener future for asthma medicine: a step forward</td>
<td>David Price (Singapore, Singapore)</td>
<td></td>
</tr>
</tbody>
</table>

### Skills Lab. Session 286 15:30 - 16:15
**Industry Skills Lab Workshop: High Flow Therapy: beyond gas exchange!**
*Organised by ResMed*

**Chairs:** Mathieu Delorme (Talence, France), Christian Wabnitz (Basel, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
<th>Location(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30</td>
<td>Rationale for Home High-Flow Therapy in chronic patients</td>
<td>Mathieu Delorme (Talence, France)</td>
<td></td>
</tr>
<tr>
<td>15:40</td>
<td>Introduction and discussion of patient cases using HFT in different settings</td>
<td>Mathieu Delorme (Talence, France)</td>
<td></td>
</tr>
<tr>
<td>15:50</td>
<td>Presentation of the HFT Solution from ResMed</td>
<td>Christian Wabnitz (Basel, Switzerland)</td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>LIVE Q/A session</td>
<td>Mathieu Delorme (Talence, France), Christian Wabnitz (Basel, Switzerland)</td>
<td></td>
</tr>
</tbody>
</table>

### Skills Lab. Session 297 16:30 - 17:15
**Industry Skills Lab Workshop: AlphaID™, an easy-to-use, patient-friendly tool to help in the diagnosis of alpha-1 antitrypsin deficiency (AATD)**
*Organised by GRIFOLS, S.A.*

**Chairs:** Layla Diab Caceres (Madrid, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
<th>Location(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Introduction to the AlphaID tool, instructions for use and important considerations</td>
<td>Layla Diab Caceres (Madrid, Spain)</td>
<td></td>
</tr>
</tbody>
</table>
### Skills Lab. Session 304 17:30 - 18:15

**Industry Skills Lab Workshop: The benefits of Nasal High Flow therapy in COPD patients in the home**  
*Organised by Fisher & Paykel Healthcare*

**Chairs:** Nicholas Hart (London, United Kingdom), Stefano Nava (Bologna (BO), Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Domiciliary high-flow nasal cannula oxygen therapy for stable hypercapnic COPD patients</td>
<td>Kazuma Nagata (Kobe, Japan)</td>
<td>2747</td>
</tr>
<tr>
<td>17:42</td>
<td>Feasibility of using daily home high flow nasal therapy in COPD patients following recent COPD hospitalization</td>
<td>Gerard J. Criner (Philadelphia, United States of America)</td>
<td>2748</td>
</tr>
<tr>
<td>17:57</td>
<td>Cost-effectiveness of domiciliary high flow treatment in COPD patients with chronic respiratory failure</td>
<td>Ulla Møller Weinreich (Ålborg, Denmark)</td>
<td>2749</td>
</tr>
<tr>
<td>18:06</td>
<td>Question and Answer session</td>
<td>Nicholas Hart (London, United Kingdom)</td>
<td>2750</td>
</tr>
</tbody>
</table>

### Channel 1. Session 310 18:15 - 19:45

**Industry Virtual Symposium: Mepolizumab: Translating clinical trial evidence to real world patients**  
*Organised by GlaxoSmithKline*

**Chairs:** Peter Howarth (Brentford, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome</td>
<td>Peter Howarth (Brentford, United Kingdom)</td>
<td>2751</td>
</tr>
<tr>
<td>18:25</td>
<td>REALITI-A: 1-year analysis of the global, prospective RWE study</td>
<td>Stephanie Korn (Mainz, Germany)</td>
<td>2752</td>
</tr>
<tr>
<td>18:45</td>
<td>COMET: An RCT designed to address real world clinical questions</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
<td>2753</td>
</tr>
<tr>
<td>18:55</td>
<td>Translating clinical trial evidence to real world patients: An expert discussion about routine clinical questions</td>
<td>Peter Howarth (Brentford, United Kingdom), Stephanie Korn (Mainz, Germany), Arnaud Bourdin (Montpellier Cedex 5, France)</td>
<td>2754</td>
</tr>
<tr>
<td>19:15</td>
<td>Closing</td>
<td>Peter Howarth (Brentford, United Kingdom)</td>
<td>2755</td>
</tr>
</tbody>
</table>

### Channel 2. Session 311 18:15 - 19:45

**Industry Virtual Symposium: COVID-19: Impact of Vaccines and Emerging Therapies in Respiratory Medicine**  
*Organised by AstraZeneca*

**Chairs:** Tobias Welte (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome &amp; introduction: where are we today in defeating COVID-19?</td>
<td>Tobias Welte (Hannover, Germany)</td>
<td>2756</td>
</tr>
<tr>
<td>18:30</td>
<td>New frontiers in monoclonal antibody therapies for COVID-19</td>
<td>Myron J Levin (Colorado, United States of America)</td>
<td>2757</td>
</tr>
<tr>
<td>18:55</td>
<td>COVID-19: advances in practice and learnings for respiratory medicine</td>
<td>Mona Al-Ahmad (Kuwait, Kuwait)</td>
<td>2758</td>
</tr>
<tr>
<td>19:20</td>
<td>Panel discussion</td>
<td>Tobias Welte (Hannover, Germany)</td>
<td>2759</td>
</tr>
</tbody>
</table>
### Channel 3. Session 312 18:15 - 19:45

**Industry Virtual Symposium: Revolution or evolution: What does the future hold in ILD?**

*Organised by F. Hoffmann-La Roche Ltd.*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Opening remarks</td>
<td>Catharina Moor (Rotterdam, Netherlands)</td>
<td></td>
</tr>
<tr>
<td>18:20</td>
<td>Advances in ILD imaging technology: contributing to an early and accurate diagnosis</td>
<td>Joseph Jacob (London, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>18:40</td>
<td>The changing IPF treatment landscape: working for a better future for patients with IPF</td>
<td>Gisli Jenkins (London, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>19:00</td>
<td>Innovations to improve patient care in ILD: shaping the future of patient interactions</td>
<td>Catharina Moor (Rotterdam, Netherlands)</td>
<td></td>
</tr>
<tr>
<td>19:20</td>
<td>Q&amp;A</td>
<td>Catharina Moor (Rotterdam, Netherlands), Gisli Jenkins (London, United Kingdom), Joseph Jacob (London, United Kingdom)</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 4. Session 313 18:15 - 19:45

**Industry Virtual Symposium: The role and timing of antiviral therapy in the treatment of hospitalised patients with COVID-19**

*Organised by Gilead Sciences Europe Ltd*

**Chairs:** Andrew Ustianowski (Manchester, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>The role and timing of antiviral therapy in the treatment of hospitalised patients with COVID-19</td>
<td>Andrew Ustianowski (Manchester, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>19:15</td>
<td>Live audience Q&amp;A and meeting close</td>
<td>Andrew Ustianowski (Manchester, United Kingdom)</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 5. Session 314 18:15 - 19:45

**Industry Virtual Symposium: How digital inhalers can address the human burden of chronic respiratory diseases**

*Organised by Teva Pharmaceuticals Europe B.V.*

**Chairs:** John Haughney (Glasgow, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome and opening remarks</td>
<td>John Haughney (Glasgow, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>18:25</td>
<td>The human burden of chronic respiratory disease in 2021</td>
<td>Mark L. Levy (London, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>18:35</td>
<td>What is on the horizon? Opportunities for digital inhalers</td>
<td>Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>18:45</td>
<td>Panel discussion: How can digital inhalers improve respiratory care?</td>
<td>John Haughney (Glasgow, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>18:55</td>
<td>Connected technology, connected patients; how digital inhalers can support clinical management for HCPs and patients</td>
<td>Monica Fletcher (Cuckfield, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>19:10</td>
<td>Panel discussion and audience Q&amp;A</td>
<td>John Haughney (Glasgow, United Kingdom)</td>
<td></td>
</tr>
</tbody>
</table>

### Channel 6. Session 315 18:15 - 19:45

**Industry Virtual Symposium: Impact of Navigation on Peripheral Bronchoscopy**

*Organised by Olympus Europa SE & Co. KG*

**Chairs:** Felix J.F. Herth (Heidelberg, Germany), Lonny Yarmus (Baltimore, United States of America)
### Channel 1.  
**Session 316  20:00 - 21:30**  
**Industry Virtual Symposium: Filling the communication gap in COPD: reshaping our world with a patient-centered approach**  
*Organised by Menarini Group*  
**Chairs**: Jose Luis López-Campos (Sevilla, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td><strong>Introduction by the Chairman</strong></td>
<td>Jose Luis López-Campos (Sevilla, Spain)</td>
<td>2780</td>
</tr>
<tr>
<td>20:15</td>
<td><strong>MIRRORing CLARA: a real world study in COPD</strong></td>
<td>Bernd Lamprecht (Linz, Austria)</td>
<td>2781</td>
</tr>
<tr>
<td>20:45</td>
<td><strong>Treating COPD patients in real life settings</strong></td>
<td>Konstantinos Kostikas (Ioannina, Greece)</td>
<td>2782</td>
</tr>
<tr>
<td>21:15</td>
<td><strong>Conclusions and Q&amp;A</strong></td>
<td>Jose Luis López-Campos (Sevilla, Spain)</td>
<td>2783</td>
</tr>
</tbody>
</table>

### Channel 2.  
**Session 317  20:00 - 21:30**  
**Industry Virtual Symposium: Harvesting the fruits of pulmonary disease research: Learnings from the COVID-19 pandemic**  
*Organised by CSL Behring GmbH*  
**Chairs**: Felix J.F. Herth (Heidelberg, Germany), Daiana Stolz (Basel, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td><strong>Welcome, introductions and meeting objectives</strong></td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>2784</td>
</tr>
<tr>
<td>20:05</td>
<td><strong>Planning for success: Research priorities in AATD</strong></td>
<td>Maria Campos Miranda Duarte Sucena (Porto, Portugal)</td>
<td>2785</td>
</tr>
<tr>
<td>20:15</td>
<td><strong>Optimising laboratory diagnosis of AATD</strong></td>
<td>Ilaria Ferrarotti (Pavia (PV), Italy)</td>
<td>2786</td>
</tr>
<tr>
<td>20:25</td>
<td><strong>Paradigm shifts in AATD: The impact of COVID-19 on patient management</strong></td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>2787</td>
</tr>
<tr>
<td>20:35</td>
<td><strong>Q&amp;A with Dr Maria Sucena, Dr Ilaria Ferrarotti and Prof Felix Herth</strong></td>
<td>Daiana Stolz (Basel, Switzerland)</td>
<td>2788</td>
</tr>
<tr>
<td>20:50</td>
<td><strong>Strategies to prevent and manage severe COVID-19</strong></td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>2789</td>
</tr>
<tr>
<td>21:10</td>
<td><strong>Q&amp;A with Prof Dave Singh</strong></td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>2790</td>
</tr>
<tr>
<td>21:25</td>
<td><strong>Summary and closing remarks</strong></td>
<td>Daiana Stolz (Basel, Switzerland)</td>
<td>2791</td>
</tr>
<tr>
<td>20:00</td>
<td><strong>Harvesting the fruits of pulmonary disease research: Learnings from the COVID-19 pandemic</strong></td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>4388</td>
</tr>
</tbody>
</table>

### Channel 3.  
**Session 318  20:00 - 21:30**  
**Industry Virtual Symposium: High-Flow Therapy (HFT): where are we today?**  
*Organised by ResMed*  
**Chairs**: Miguel R. Gonçalves (Porto, Portugal), Dora Triché (Nürnberg, Germany)
### Channel 4. Session 319 20:00 - 21:00

**Industry Virtual Symposium: Treprostinil use in PAH: Advances in clinical evidences**  
*Organised by Ferrer*

**Chairs:** Ekkehard Grünig (Heidelberg, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td><strong>Introduction</strong></td>
<td>Dora Triché (Nürnberg, Germany), Miguel R. Gonçalves (Porto, Portugal)</td>
<td>4393</td>
</tr>
<tr>
<td>20:05</td>
<td><strong>Oral treprostinil: insights from FREEDOM studies and practical considerations</strong></td>
<td>R James White (Rochester, United States of America)</td>
<td>2797</td>
</tr>
<tr>
<td>20:25</td>
<td><strong>Parenteral treprostinil: afterload reduction in the early upfront use, hemodynamic and risk reduction effects</strong></td>
<td>Roberto Badagliacca (Rome, Italy)</td>
<td>2798</td>
</tr>
<tr>
<td>20:45</td>
<td><strong>Questions &amp; Answers</strong></td>
<td>Ekkehard Grünig (Heidelberg, Germany), R James White (Rochester, United States of America), Roberto Badagliacca (Rome, Italy)</td>
<td>2799</td>
</tr>
</tbody>
</table>

### Channel 5. Session 320 20:00 - 21:30

**Industry Virtual Symposium: Raising the Bar: Setting New Objectives for Managing Severe Asthma**  
*Organised by Sanofi Genzyme and Regeneron*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td><strong>Defining Treatable Traits and the True Clinical Burden of Severe Asthma</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler</td>
<td>2800</td>
</tr>
<tr>
<td>20:10</td>
<td><strong>Transforming Measurements Into Management: Does Exacerbation History Define Treatment Decisions?</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
<td>2801</td>
</tr>
<tr>
<td>20:20</td>
<td><strong>Panel Discussion</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler</td>
<td>2802</td>
</tr>
<tr>
<td>20:25</td>
<td><strong>Transforming Measurements Into Management: FeNO As a Marker of Type 2 Inflammation in Severe Asthma</strong></td>
<td>Guy Brusselle (Ghent, Belgium)</td>
<td>2803</td>
</tr>
<tr>
<td>20:35</td>
<td><strong>Panel Discussion</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler</td>
<td>2804</td>
</tr>
<tr>
<td>20:40</td>
<td><strong>Transforming Measurements Into Management: Moving Beyond Eosinophilia to Type 2 Inflammation in Severe Asthma</strong></td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
<td>2805</td>
</tr>
<tr>
<td>20:50</td>
<td><strong>Panel Discussion</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler</td>
<td>2806</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Authors</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>21:00</td>
<td>Question and Answer</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler (Milano, Italy)</td>
<td></td>
</tr>
</tbody>
</table>

ERS Virtual International Congress 2021

INDUSTRY SPONSORED SESSIONS

MONDAY 06 SEPTEMBER, 2021
Channel 1.  
Session 321  
07:45 - 09:15

Industry Virtual Symposium: The link between Air Pollution and Sars-Cov-2. What is the evidence telling us?
Organised by GSK Consumer Healthcare

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:45</td>
<td>Welcome, introduction and agenda</td>
<td>Christopher Carlsten (Vancouver (BC), Canada)</td>
</tr>
<tr>
<td>07:50</td>
<td>2COVID-19, SARS-CoV-2 and air pollution: attempts by epidemiology to connect the dots</td>
<td>Christopher Carlsten (Vancouver (BC), Canada)</td>
</tr>
<tr>
<td>08:15</td>
<td>COVID-19, SARS-CoV-2 and air pollution: mechanisms linking COVID-19 with air pollution</td>
<td>Kian Fan Chung (London, United Kingdom)</td>
</tr>
<tr>
<td>08:45</td>
<td>Q&amp;A/Discussion</td>
<td>Christopher Carlsten (Vancouver (BC), Canada), Kian Fan Chung (London, United Kingdom), Gary Wong (Shatin, Hong Kong), Sundeep Santosh Salvi (Pune (Maharashtra), India)</td>
</tr>
<tr>
<td>09:10</td>
<td>Closing remarks</td>
<td>Christopher Carlsten (Vancouver (BC), Canada)</td>
</tr>
</tbody>
</table>

Channel 4.  
Session 322  
07:45 - 09:15

Industry Virtual Symposium: COVID-19 and lung injury
Organised by Boehringer Ingelheim International GmbH

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:45</td>
<td>Welcome and introduction</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>07:50</td>
<td>Acute lung injury in COVID-19</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>08:05</td>
<td>Guidelines for the management of patients with COVID-19</td>
<td>Leticia Kawano-Dourado (Sao Paulo, Brazil)</td>
</tr>
<tr>
<td>08:20</td>
<td>Challenges in the management of patients post-COVID-19</td>
<td>Andreas Rembert Koczulla (Marburg, Germany)</td>
</tr>
<tr>
<td>08:35</td>
<td>Live Q&amp;A</td>
<td>Tobias Welte (Hannover, Germany), Leticia Kawano-Dourado (Sao Paulo, Brazil), Andreas Rembert Koczulla (Marburg, Germany)</td>
</tr>
</tbody>
</table>

Skills Lab.  
Session 323  
09:00 - 09:45

Organised by Pulmonx

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction: Current knowledge on ELVR</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
</tr>
<tr>
<td>09:05</td>
<td>The typical eligible patient (Who, when, where to refer?)</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
</tr>
<tr>
<td>09:15</td>
<td>Case studies &amp; Q&amp;A</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands), Pallav L. Shah (London, United Kingdom)</td>
</tr>
</tbody>
</table>

Channel 1.  
Session 361  
13:00 - 14:30

Industry Virtual Symposium: Eosinophil-driven diseases: An unmet need and clinical challenge
Organised by GlaxoSmithKline

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Peter Howarth (Brentford, United Kingdom), Florence Schleich (Liège, Belgium)</td>
</tr>
</tbody>
</table>
13:00  Welcome  
Peter Howarth (Brentford, United Kingdom), Florence Schleich (Liège, Belgium)

13:05  Eosinophils in health and disease  
Michael E. Wechsler (Denver, United States of America)

13:20  Differential diagnosis of eosinophilic diseases  
Florence Roufosse (Brussels, Belgium)

13:35  Overview of a patient journey with eosinophilia  
Florence Schleich (Liège, Belgium)

13:45  Discussion: Differential diagnosis of a patient with eosinophilia  
Michael E. Wechsler (Denver, United States of America), Florence Roufosse (Brussels, Belgium), Claire Hopkins (London, United Kingdom), Florence Schleich (Liège, Belgium)

14:00  Closing remarks  
Peter Howarth (Brentford, United Kingdom)

14:05  Q&A  
Peter H. Howarth (Southampton (Hampshire), United Kingdom)

Channel 2.  Session 362  13:00 - 14:00

Industry Virtual Symposium: Advanced Lung Protection: Hospital to Home  
Organised by Philips

13:00  Advanced Lung Protection from Hospital to Home  
Michael Polkey (London, United Kingdom)

13:05  Hospital Ventilation: Advanced Lung Parameters  
Javier Belda (Valencia, Spain)

13:35  Home Mechanical Ventilation: AVAPS-AE  
Michael Polkey (London, United Kingdom)

Channel 3.  Session 363  13:00 - 14:30

Industry Virtual Symposium: Benefits of Remote Management and Patient-reported Outcomes in Delivering CPAP Therapy  
Organised by ResMed

Chairs: Adam Benjafield (Sydney, Australia), Ludger Grote (Gothenburg, Sweden)

13:00  Introduction  
Adam Benjafield (Sydney, Australia), Ludger Grote (Gothenburg, Sweden)

13:03  The role of telemedicine during the COVID-19 Pandemic  
Sophia E. Schiza (Heraklion, Greece)

13:24  The value of patient-reported outcomes in CPAP therapy management  
Peter A. Cistulli (St Leonards (NSW), Australia)

13:49  Impact of remote management and patient engagement on CPAP therapy  
Adam Benjafield (Sydney, Australia)

14:09  Live Q&A Session  
Ludger Grote (Gothenburg, Sweden), Adam Benjafield (Sydney, Australia), Sophia E. Schiza (Heraklion, Greece), Peter A. Cistulli (St Leonards (NSW), Australia)

Channel 4.  Session 364  13:00 - 14:30

Industry Virtual Symposium: Addressing challenges in the treatment of fibrosing ILDs  
Organised by Boehringer Ingelheim International GmbH

Chairs: Marlies S. Wijsenbeek (Rotterdam, Netherlands)

13:00  Welcome and introduction  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Channel Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:05</td>
<td>How should we define progression of ILD?</td>
<td>Toby Maher (Los Angeles, United States of America)</td>
<td>3050</td>
</tr>
<tr>
<td>13:20</td>
<td>How should we treat patients with progressive fibrosing ILDs?</td>
<td>Elisabetta Renzoni (London, United Kingdom)</td>
<td>3051</td>
</tr>
<tr>
<td>13:35</td>
<td>How can we help patients with ILDs to “live well”?</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
<td>3052</td>
</tr>
<tr>
<td>13:50</td>
<td>Live Q&amp;A</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Toby Maher (Los Angeles, United States of America), Elisabetta Renzoni (London, United Kingdom)</td>
<td>3053</td>
</tr>
</tbody>
</table>

**Channel 5. Session 365 13:00 - 14:30**

Industry Virtual Symposium: Moving Past Oral Corticosteroid (OCS) Dependency for Patients With Severe Asthma: The Dupilumab Experience

*Organised by Sanofi Genzyme and Regeneron*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Channel Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Opening Remarks</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)</td>
<td>3054</td>
</tr>
<tr>
<td>13:05</td>
<td>The Cumulative Burden and Risks of Chronic OCS Use</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
<td>3055</td>
</tr>
<tr>
<td>13:10</td>
<td>Panel Perspectives: The Imperative to Minimize OCS Exposure</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)</td>
<td>3056</td>
</tr>
<tr>
<td>13:24</td>
<td>A Path to OCS Reduction: Long-Term Evidence of Dupilumab OCS-Sparing Effects</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
<td>3057</td>
</tr>
<tr>
<td>13:39</td>
<td>Audience Q&amp;A</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)</td>
<td>3058</td>
</tr>
<tr>
<td>13:54</td>
<td>Panel Perspectives: Dupilumab in Practice: Clinical Experience in OCS-Dependent Patients</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)</td>
<td>3059</td>
</tr>
<tr>
<td>14:10</td>
<td>Audience Q&amp;A</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)</td>
<td>3060</td>
</tr>
<tr>
<td>14:25</td>
<td>Closing Remarks</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)</td>
<td>3061</td>
</tr>
</tbody>
</table>

**Channel 6. Session 366 13:00 - 14:30**

Industry Virtual Symposium: Unlock every breath: finding the right key to improve respiratory therapy

*Organised by Chiesi Farmaceutici S.p.A.*

*Chairs: Dave Singh (Manchester, United Kingdom)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Channel Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome video</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>3062</td>
</tr>
<tr>
<td>13:01</td>
<td>Introduction and foreword</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>3063</td>
</tr>
<tr>
<td>13:06</td>
<td>A key fitting the lock - Role of small airways and extrafine formulations</td>
<td>Monica Kraft (Tucson, United States of America)</td>
<td>3064</td>
</tr>
<tr>
<td>13:25</td>
<td>Unlocking the potential of inhalation devices</td>
<td>Omar S. Usmani (London, London, United Kingdom)</td>
<td>3065</td>
</tr>
</tbody>
</table>
### Industry Skills Lab Workshop: EBUS-TBNA and Valve Therapy for Emphysema and Air Leak - Learn with the Experts

**Organised by Olympus Europa SE & Co. KG**

**Chairs:** Ralf Eberhardt (Hamburg, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30</td>
<td>Handling all EBUS-TBNA procedure steps safe and efficient</td>
</tr>
<tr>
<td></td>
<td>Ralf Eberhardt (Hamburg, Germany)</td>
</tr>
<tr>
<td>15:50</td>
<td>One valve, two therapies - How to place valves step-by-step for optimal procedure outcome</td>
</tr>
<tr>
<td></td>
<td>Ralf Eberhardt (Hamburg, Germany)</td>
</tr>
</tbody>
</table>

### Industry Skills Lab Workshop: Switching from Noninvasive Ventilation to High Flow Therapy

**Organised by Philips**

**Chairs:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>NIV and HFT therapy modalities</td>
</tr>
<tr>
<td></td>
<td>Carlos Ferrando (Barcelona, Spain)</td>
</tr>
<tr>
<td>16:55</td>
<td>V60 Plus demonstration on how to switch from NIV to HFT</td>
</tr>
<tr>
<td></td>
<td>Traci Wellington (Brisbane, Australia)</td>
</tr>
</tbody>
</table>

### Industry Skills Lab Workshop: Longterm mechanical ventilation: how to achieve clinical benefit

**Organised by Loewenstein Medical**

**Chairs:** Matthias Schwaibold (Karlsruhe, Germany), Sarah Bettina Schwarz (Köln, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:32</td>
<td>How to select patients who benefit from longterm mechanical ventilation, patient interface and initial ventilator setup</td>
</tr>
<tr>
<td></td>
<td>Sarah Bettina Schwarz (Köln, Germany)</td>
</tr>
<tr>
<td>17:50</td>
<td>How to monitor and optimize success in longterm mechanical ventilation</td>
</tr>
<tr>
<td></td>
<td>Jesus Gonzalez-Bermejo (France)</td>
</tr>
<tr>
<td>18:08</td>
<td>Solutions to achieve success in longterm mechanical ventilation - a case report</td>
</tr>
<tr>
<td></td>
<td>Anne Gruenewald (Germany)</td>
</tr>
</tbody>
</table>

### Channel 1.

**Industry Virtual Symposium: Shifting the boundary in rare diseases: Spotlight on cystic fibrosis**

**Organised by Vertex Pharmaceuticals (Europe) Limited**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Chair's welcome: From gene discovery to precision medicine</td>
</tr>
<tr>
<td></td>
<td>Stuart Elborn (Belfast, United Kingdom)</td>
</tr>
<tr>
<td>18:23</td>
<td>Drug development in rare diseases: The CF journey</td>
</tr>
<tr>
<td></td>
<td>Marcus Mall (Berlin, Germany)</td>
</tr>
<tr>
<td>18:35</td>
<td>Design and flexibility of clinical trials</td>
</tr>
<tr>
<td></td>
<td>Claire Wainwright (Brisbane, Australia)</td>
</tr>
<tr>
<td>18:47</td>
<td>Evidence generation: Learnings from the real world</td>
</tr>
<tr>
<td></td>
<td>Gwyneth Davies (London, United Kingdom)</td>
</tr>
<tr>
<td>18:59</td>
<td>Panel discussion and Q&amp;A</td>
</tr>
<tr>
<td></td>
<td>Stuart Elborn (Belfast, United Kingdom)</td>
</tr>
</tbody>
</table>
Channel 2.  
**Session 451  18:15 - 19:15**

**Industry Virtual Symposium: EDS management in OSA : The new paradigm**  
*Organised by Bioprojet Pharma*

**Chairs**: Fernando Eduardo Barbe Illa (Lleida, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter &amp; Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td><strong>Introduction</strong></td>
<td>Fernando Eduardo Barbe Illa (Lleida, Spain)</td>
</tr>
<tr>
<td>18:17</td>
<td><strong>A new paradigm: the therapeutic place of drugs</strong></td>
<td>Sonya Craig (Liverpool, United Kingdom)</td>
</tr>
<tr>
<td>18:30</td>
<td><strong>The Histamine pathway, a new approach</strong></td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
</tr>
<tr>
<td>18:45</td>
<td><strong>Clinical cases</strong></td>
<td>Winfried J. Randerath (Solingen, Germany)</td>
</tr>
<tr>
<td>19:00</td>
<td><strong>Q&amp;A</strong></td>
<td>Sonya Craig (Liverpool, United Kingdom), Winfried J. Randerath (Solingen, Germany), Jean-Louis Pépin (Grenoble, France)</td>
</tr>
</tbody>
</table>

Channel 3.  
**Session 452  18:15 - 19:45**

**Industry Virtual Symposium: Improving asthma & COPD outcomes in 2021: Approaches to empower patients**  
*Organised by Orion and Menarini*

**Chairs**: Eric D. Bateman (Cape Town, South Africa)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter &amp; Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td><strong>Welcome: Introduction and housekeeping</strong></td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>18:21</td>
<td><strong>Personalising treatment in COPD: The case for ICS</strong></td>
<td>Alvar Agusti (Barcelona, Spain)</td>
</tr>
<tr>
<td>18:39</td>
<td><strong>Selecting the appropriate device for personalised management of asthma and COPD</strong></td>
<td>Anna Murphy (Leicester (Leicestershire), United Kingdom)</td>
</tr>
<tr>
<td>18:57</td>
<td><strong>The patient perspective on ICS/formoterol as reliever for mild asthma: Theory and Practice</strong></td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>19:15</td>
<td><strong>Live Q&amp;A panel discussion</strong></td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
</tbody>
</table>

Channel 4.  
**Session 453  18:15 - 19:45**

**Industry Virtual Symposium: Myth-busting in fibrosing ILDs**  
*Organised by Boehringer Ingelheim International GmbH*

**Chairs**: Bruno Crestani (Paris, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter &amp; Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td><strong>Myths in fibrosing ILDs</strong></td>
<td>Bruno Crestani (Paris, France)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>Was INBUILD a collection of trials in individual diseases?</strong></td>
<td>Kevin R. Flaherty (Pinckney, United States of America)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Do only patients who have a UIP pattern need antifibrotic therapy?</strong></td>
<td>Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:50</td>
<td><strong>Does SSc-ILD progress too slowly to warrant treatment with nintedanib?</strong></td>
<td>Michael Kreuter (Heidelberg, Germany)</td>
</tr>
</tbody>
</table>
**Channel 5. Session 454 18:15 - 19:30**

Industry Virtual Symposium: Type 2 Inflammation: Connecting Diseases of the Upper and Lower Airway  
*Organised by Sanofi Genzyme and Regeneron*

18:15  
**Evaluating All Angles of the Burden of Disease in Patients With CRSwNP**  
Claire Hopkins (London, United Kingdom)  

18:35  
**Tying Together Type 2 Inflammation in the Upper and Lower Airways**  
Wytske Fokkens (Amsterdam, Netherlands)  

18:55  
**Integrated Care: Managing CRSwNP and Coexisting Upper and Lower Type 2 Inflammatory Airway Diseases**  
Enrico Marco Heffler (Milano, Italy)  

19:15  
**Question and Answer**  
Claire Hopkins (London, United Kingdom), Wytske Fokkens (Amsterdam, Netherlands), Enrico Marco Heffler (Milano, Italy)

---

**Channel 6. Session 455 18:15 - 19:15**

Industry Virtual Symposium: Pulmonary Hypertension associated with Interstitial Lung Disease  
*Organised by Ferrer*

18:15  
**Introduction**  
Horst Olschewski (Graz, Austria)  

18:20  
**Best practices in pulmonary hypertension associated with interstitial lung disease: importance of early referral and diagnosis**  
David Kiely (Sheffield (South Yorkshire), United Kingdom)  

18:40  
**Pulmonary hypertension associated with interstitial lung disease: current clinical and treatment approach**  
Steven D Nathan (Falls Church, United States of America)  

19:00  
**Questions & Answers**  
Horst Olschewski (Graz, Austria), Steven D Nathan (Falls Church, United States of America), David Kiely (Sheffield (South Yorkshire), United Kingdom)
Industry Virtual Symposium: Detecting Genomic UIP Pattern to Improve ILD Diagnosis

Organised by Veracyte

Chairs: Sangeeta Bhorade (Chicago, United States of America)

20:00 Introduction
Sangeeta Bhorade (Chicago, United States of America)

20:05 An Overview of Diagnostic challenges in ILD
Michael Kreuter (Heidelberg, Germany)

20:14 Clinical Validation studies of Envisia Genomic Class
Luca Richeldi (Roma, Italy)

20:28 Envisia Genomic Classifier Utility in ILD Diagnosis and Prognosis – Patient Cases
Mary Beth Scholand (Utah, United States of America)

21:03 Q&A
Sangeeta Bhorade (Chicago, United States of America)

21:25 Conclusion
Sangeeta Bhorade (Chicago, United States of America)

Industry Virtual Symposium: Assessment of mandibular movement monitoring with machine learning analysis for the diagnosis of obstructive sleep apnea

Organised by Sunrise

Chairs: Sophia E. Schiza (Heraklion, Greece)

20:00 Introduction
Sophia E. Schiza (Heraklion, Greece)

20:02 The physiology of mandibular movement
Jean-Benoit Martinot (Namur, Belgium)

20:28 Clinical validation pathway and the general principle behind the technology
Jean-Louis Pépin (Grenoble, France)

20:50 The Sensapnea projet and study results
Julia Kelly (London, United Kingdom)

21:03 Conclusion
Sophia E. Schiza (Heraklion, Greece)

21:05 Q&A
Sophia E. Schiza (Heraklion, Greece)

Industry Virtual Symposium: Asthma and COPD management – where are we now, and where could we be in the future?

Organised by Teva Pharmaceuticals Europe B.V.

Chairs: Peter J. Barnes (London, United Kingdom)

20:00 Introduction
Peter J. Barnes (London, United Kingdom)

20:05 Asthma and COPD management in 2021
Peter J. Barnes (London, United Kingdom)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter/Location</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:15</td>
<td>Improving our standards of severe asthma management</td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
<td>4172</td>
</tr>
<tr>
<td>20:30</td>
<td>Panel discussion: Present and future care for respiratory diseases – how can we raise the bar?</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
<td>4173</td>
</tr>
<tr>
<td>20:40</td>
<td>The digital age: The future of respiratory disease care</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
<td>4174</td>
</tr>
<tr>
<td>20:55</td>
<td>Panel discussion, audience Q&amp;A and close</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
<td>4176</td>
</tr>
</tbody>
</table>
# DISCUSSANT INDEX

Name, Session number

<table>
<thead>
<tr>
<th>Name</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRUSSELLE G.</td>
<td>62</td>
</tr>
<tr>
<td>BURGEL P.</td>
<td>492</td>
</tr>
<tr>
<td>CHAUDHURI N.</td>
<td>209</td>
</tr>
<tr>
<td>COTTIN V.</td>
<td>333</td>
</tr>
<tr>
<td>DUIVERMAN M.</td>
<td>301</td>
</tr>
<tr>
<td>GAPPA M.</td>
<td>49</td>
</tr>
<tr>
<td>HOWARD L.</td>
<td>140</td>
</tr>
<tr>
<td>JANES S.</td>
<td>284</td>
</tr>
<tr>
<td>KEIR H.</td>
<td>474</td>
</tr>
<tr>
<td>PORSBJERG C.</td>
<td>333</td>
</tr>
<tr>
<td>ROHDE G.</td>
<td>474</td>
</tr>
<tr>
<td>SINGH D.</td>
<td>421</td>
</tr>
<tr>
<td>WEDZICHA J.</td>
<td>62</td>
</tr>
<tr>
<td>Name</td>
<td>Pages</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>ULLER L.</td>
<td>2717</td>
</tr>
<tr>
<td>USMANI O.</td>
<td>33, 1247, 1582, 1585, 3029, 3032, 3065, 3067</td>
</tr>
<tr>
<td>USTIANOWSKI A.,</td>
<td>2765, 2769</td>
</tr>
<tr>
<td>VAIDYA S.</td>
<td>4298</td>
</tr>
<tr>
<td>VALIPOUR A.</td>
<td>4392</td>
</tr>
<tr>
<td>VAN AALDEREN W.,</td>
<td>1427</td>
</tr>
<tr>
<td>VAN DE VEERDONK F.</td>
<td>2624</td>
</tr>
<tr>
<td>VAN DER HEIJDEN E.</td>
<td>4381, 4382, 4383</td>
</tr>
<tr>
<td>VAN HOORENabeeck K.</td>
<td>7</td>
</tr>
<tr>
<td>VAN INGEN J.</td>
<td>2710</td>
</tr>
<tr>
<td>VAN MOORSEL C.,</td>
<td>1532</td>
</tr>
<tr>
<td>VAN STEEN K.,</td>
<td>1656</td>
</tr>
<tr>
<td>VAN ZYL-SMIT R.,</td>
<td>22</td>
</tr>
<tr>
<td>VANDERBEKE L.</td>
<td>10</td>
</tr>
<tr>
<td>VANFLETTEREN L.,</td>
<td>2992</td>
</tr>
<tr>
<td>VAPORIDI K.,</td>
<td>123</td>
</tr>
<tr>
<td>VARN C.</td>
<td>4363</td>
</tr>
<tr>
<td>VEGA M.</td>
<td>197</td>
</tr>
<tr>
<td>VERBRAECKEN J.,</td>
<td>1570, 2882, 2883</td>
</tr>
<tr>
<td>VERKLEIJ M.</td>
<td>1229</td>
</tr>
<tr>
<td>VERMEULEN R.,</td>
<td>4033, 4036</td>
</tr>
<tr>
<td>VERMEULEN K.,</td>
<td>4033, 4036</td>
</tr>
<tr>
<td>VERSCHAELEN J.,</td>
<td>1349</td>
</tr>
<tr>
<td>VIATGÈ T.</td>
<td>245</td>
</tr>
<tr>
<td>VICEDO-CABRERA A.,</td>
<td>1246</td>
</tr>
<tr>
<td>VILLAR J.</td>
<td>2623</td>
</tr>
<tr>
<td>VILLARREAL H.</td>
<td>2623</td>
</tr>
<tr>
<td>VISCA D.</td>
<td>2601</td>
</tr>
<tr>
<td>VIZEL A.</td>
<td>2655</td>
</tr>
<tr>
<td>VOGELMEIER C.,</td>
<td>1387, 1421, 1425</td>
</tr>
<tr>
<td>VOGIATZIS I.</td>
<td>1228</td>
</tr>
<tr>
<td>VOS W.</td>
<td>39</td>
</tr>
<tr>
<td>WABNITZ C.</td>
<td>2647, 2648</td>
</tr>
<tr>
<td>WACK A.</td>
<td>202</td>
</tr>
<tr>
<td>WADDELL T.</td>
<td>1347</td>
</tr>
<tr>
<td>WAGNER D.</td>
<td>4185, 4186</td>
</tr>
<tr>
<td>WAINWRIGHT C.</td>
<td>4126</td>
</tr>
<tr>
<td>WALSH S.</td>
<td>276, 277, 278, 279, 1342</td>
</tr>
<tr>
<td>WANG C.</td>
<td>2823</td>
</tr>
<tr>
<td>WARD S.</td>
<td>155, 157, 158</td>
</tr>
<tr>
<td>WARE L.</td>
<td>2622</td>
</tr>
<tr>
<td>WAUTERS E.</td>
<td>10</td>
</tr>
<tr>
<td>WECHSLER M.</td>
<td>3035, 3038</td>
</tr>
<tr>
<td>WEERSINK E.</td>
<td>1636</td>
</tr>
<tr>
<td>WELLINGTON T.</td>
<td>4077</td>
</tr>
<tr>
<td>WELLS A.</td>
<td>250, 2654, 4249</td>
</tr>
<tr>
<td>WELTE T.</td>
<td>67, 69, 71, 1453, 1454, 1457, 1706, 1708, 2721, 2756, 2759, 2813, 2814, 2817, 4156, 4261</td>
</tr>
<tr>
<td>WHITE R.</td>
<td>2797, 2799</td>
</tr>
<tr>
<td>WHITTAKER E.</td>
<td>6</td>
</tr>
<tr>
<td>WICKRAMASINGHE S.</td>
<td>3936</td>
</tr>
<tr>
<td>WICK-STROM S.</td>
<td>109</td>
</tr>
<tr>
<td>WIJSENHEM M.</td>
<td>35, 128, 129, 3049, 3052, 3053, 4185, 4186</td>
</tr>
<tr>
<td>WILSON A.</td>
<td>1352</td>
</tr>
<tr>
<td>WINDERS T.</td>
<td>267, 272</td>
</tr>
<tr>
<td>WONG G.</td>
<td>2811</td>
</tr>
<tr>
<td>WURJ J.</td>
<td>4005</td>
</tr>
<tr>
<td>YARMUS L.</td>
<td>2778, 2779</td>
</tr>
<tr>
<td>ZACHARASIEWICZ A.</td>
<td>228</td>
</tr>
<tr>
<td>ZAMPOLI M.</td>
<td>1177</td>
</tr>
<tr>
<td>ZANONI L.</td>
<td>202</td>
</tr>
<tr>
<td>ZAR H.</td>
<td>4277</td>
</tr>
<tr>
<td>ZITVOGEL L.</td>
<td>63</td>
</tr>
</tbody>
</table>
AUTHOR INDEX
<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAIRO A., PA3545</td>
<td></td>
</tr>
<tr>
<td>DJIBBAR A., PA3545</td>
<td></td>
</tr>
<tr>
<td>DJUKANOVIC R., PA3558, PA2274, OA1290, PA7224</td>
<td></td>
</tr>
<tr>
<td>DMC KATOTO P., PA1903</td>
<td></td>
</tr>
<tr>
<td>DMITRIEVA A., OA1372</td>
<td></td>
</tr>
<tr>
<td>DMYTRIEV D., PA3492, PA3583</td>
<td></td>
</tr>
<tr>
<td>DMYTRIEV K., PA1968, PA2227, PA3198, PA3583</td>
<td></td>
</tr>
<tr>
<td>DMYTRIENKO V., PA1968, PA3455, PA2229, PA3455, PA1903</td>
<td></td>
</tr>
<tr>
<td>DMTRIIEVA K., PA3836</td>
<td></td>
</tr>
<tr>
<td>DMYTRYCHENKO PA2232</td>
<td></td>
</tr>
<tr>
<td>DMYTRYCHENKO V., PA1903</td>
<td></td>
</tr>
<tr>
<td>DMYTRYCHENKO (LERADMITRICHENKO O@UAF/M, ST’DAMA”,DNIPRO”) V., PA1968</td>
<td></td>
</tr>
<tr>
<td>DO W., PA3225</td>
<td></td>
</tr>
<tr>
<td>DO AMARAL D., PA765</td>
<td></td>
</tr>
<tr>
<td>DO ROSARIO N., PA1781</td>
<td></td>
</tr>
<tr>
<td>DOAK S., PA3188</td>
<td></td>
</tr>
<tr>
<td>DOAN C., OA3948</td>
<td></td>
</tr>
<tr>
<td>DOBBELS F., OA187</td>
<td></td>
</tr>
<tr>
<td>DOBER J., PA358</td>
<td></td>
</tr>
<tr>
<td>DOBRESCU L., PA3260, PA3587</td>
<td></td>
</tr>
<tr>
<td>DOBRIN M., PA2437, PA2248</td>
<td></td>
</tr>
<tr>
<td>DOBRIN M., PA3879</td>
<td></td>
</tr>
<tr>
<td>DOBSON M., OA4339</td>
<td></td>
</tr>
<tr>
<td>DOCKRY R., PA957, PA3112</td>
<td></td>
</tr>
<tr>
<td>DOCTOROVA N., PA2247</td>
<td></td>
</tr>
<tr>
<td>DODANI S., PA1886</td>
<td></td>
</tr>
<tr>
<td>DOOD J., OA2439</td>
<td></td>
</tr>
<tr>
<td>DOOD J., PA1095</td>
<td></td>
</tr>
<tr>
<td>DOOD J., PA1913</td>
<td></td>
</tr>
<tr>
<td>DODOS K., PA105</td>
<td></td>
</tr>
<tr>
<td>DO A N., PA3648</td>
<td></td>
</tr>
<tr>
<td>DO A N., OA3179</td>
<td></td>
</tr>
<tr>
<td>DO A N., OA3180</td>
<td></td>
</tr>
<tr>
<td>DOGANAY O., PA3241</td>
<td></td>
</tr>
<tr>
<td>DERO ERO LUT., PA3179</td>
<td></td>
</tr>
<tr>
<td>DOGONADZE M., PA2475</td>
<td></td>
</tr>
<tr>
<td>DO RU D., PA566, PA1818, PA2088, PA3154, PA3598</td>
<td></td>
</tr>
<tr>
<td>DOHERTY R., PA2233</td>
<td></td>
</tr>
<tr>
<td>DOKOZA M., PA3432</td>
<td></td>
</tr>
</tbody>
</table>
ROSENTHAL A., ROSENTAL P., OA3977
ROSENOW F., PA898
ROSENKRANZ S., ROSENFELD M., ROSENBLATT J., A., PA966, PA2181
ROSELL A., PA359, ROSE L., OA1626
ROSCIGNO R., PA601
ROSAIN J., OA4207
ROSADO A., OA4323
ROPONEN M., PA631
ROOZEMAN J., PA896
ROOT  V., PA538
RÖÖSLI M., OA2958
PA1129
ROOFCHAYEE N.,
RONSMANS S., OA3978
RØNNOW S., OA1285

RÖTHAUL A., PA549
PA2133
ROTH K., PA562
PA1962, PA3377, D., PA570, OA1560, ROTARU-COJOCARI

RÖŽMAN Z., RUPPERT C., OA1372
RUNOLD M., PA487
RÚCKERT J., OA2635, PA3797
RÜCKERT J., OA2635, PA3797
RŮŽEK A., PA1960, PA799, PA1105, PA1113
SAHANIC S., PA453, PA1908
SAHA-CHAUDHURI P.,
NATIONAL HEART AL.AC.UK /
SAGLANI

SACILOTTO

SACCOMANNO J., OA2635, PA3797
SACHA F., PA417
SACOTTO DONIBES F., OA4329
SACK C., OA103, PA1874, PA1875
SACRÉ K., PA2245, PA2344
SADATSFAVI M., PA709, PA1015, PA1113
SADEEVA Z., PA1960, PA3367, PA3378
SADERI L., PA1939, PA3842
SADIKeen A., PA2540
SADOFF J., PA489,
SADOFFSKY L., PA1944, PA3703
SADOVNIKOVA S., PA1970
SAEB-PARSY K., OA1374
SAED M., PA2151, OA2590, OA2950, PA3503
SAETTA M., PA391, PA392, PA666, PA724, PA861, PA862, PA1167, PA2198, PA2338, PA6294, PA3110, PA3274, PA3495, PA3651, PA3794
SAEY D., PA312, PA785, OA2557
SAFA M., PA290, PA3236, PA3888
SAANDA M., PA2306
SAFAVI S., PA353
SAFAVI S., PA350
SAFOTI G., PA3397
SAFONOVA S., PA2476
SAFONOVA T., PA2444
SABDASH E., PA1047
SABIN S., PA1044
SABERIAN T., PA745, PA2492, PA2494
SABINA C., PA352
SABINE B., PA1115
SABIL A., OA3012
SABINE B., PA1115
SABLAN M., OA2233
SABRA D., PA703
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
SABRA S., PA2306
AUTHOR INDEX