# 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

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>00:00</td>
<td>COVID-19: impact on respiratory patients and prevention</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), UK)</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>

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# 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

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>00:00</td>
<td>What’s new in interstitial lung diseases in children?</td>
<td>Steve Cunningham (Edinburgh, UK)</td>
</tr>
<tr>
<td>00:15</td>
<td>Paediatric respiratory infections: COVID-19 in children</td>
<td>Elizabeth Whittaker (London, UK)</td>
</tr>
<tr>
<td>00:30</td>
<td>What’s new in paediatric sleep?</td>
<td>Kim Van Hoorenbeeck (Edegem, 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>

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# 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

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>00:00</td>
<td>Lung-directed CRISPR/Cas9 gene editing</td>
<td>Patrick Harrison (Cork, Ireland)</td>
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</tbody>
</table>
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.  

Method(s): General respiratory patient care  

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  

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 Barrecheguren Fernandez (Barcelona, Spain)  

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

Pre-congress content  
Session 6  
00:00 - 23:59

Professional development: Supporting patients with behaviour change strategies  
Engagement of patients in healthy behaviours  

Aims: to improve the competence and performance of clinicians by promoting their active learning of empathic communication and motivational interviewing and by helping them to develop strategies for incorporating these techniques into patient care; to focus on how to effectively counsel patients in order to improve their overall lifestyle, including their diet, exercise and alcohol/tobacco use; to increase knowledge about empathic listening and motivational interviewing strategies and resources; to increase skills in empathic listening and motivational interviewing strategies; to increase the application of empathic listening and motivational strategies and resources.
Session 7

Infusing empathy into clinical encounters
00:20
Timothy Milbrandt (Rochester, United States of America), Heather Preston (Zumbrota, United States of America)

Applying motivational interviewing strategies to enhance clinical outcomes in respiratory patients
00:40
Timothy Milbrandt (Rochester, United States of America), Heather Preston (Zumbrota, United States of America)

Session 8

Performing cardiopulmonary exercise testing in the COVID-19 era
00:00
William Stringer (Long Beach, United States of America), Afroditi Boutou (Thessaloniki, Greece)

Session 9

Respiratory physiology
00:00
Christina M. Spengler (Zürich, Switzerland), Sam Bayat (Grenobe, France)

Session 11

Utilising data from single cell approaches to study existing and recently emerging lung diseases
00:00
Christina M. Spengler (Zürich, Switzerland), Sam Bayat (Grenobe, France)
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<tr>
<th>Session 12</th>
<th>Pre-congress content</th>
<th>00:00 - 23:59</th>
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</thead>
<tbody>
<tr>
<td>Experts view: Digital health surveillance in the thoracic surgery pathway</td>
<td>Chairs: Sara Ricciardi (Bologna, Italy)</td>
<td>00:00</td>
</tr>
<tr>
<td><strong>Method(s)</strong>: Surgery</td>
<td><strong>Tag(s)</strong>: Digital health</td>
<td><strong>Digital health surveillance in the thoracic surgery pathway</strong></td>
</tr>
<tr>
<td>Babu Naidu (Solihull (West Midlands), United Kingdom), Cecilia Pompili (Leeds, United Kingdom)</td>
<td><strong>Chairs</strong>: Sara Ricciardi (Bologna, Italy)</td>
<td><strong>Pre-congress content</strong></td>
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<tr>
<th>Session 13</th>
<th>Pre-congress content</th>
<th>00:00 - 23:59</th>
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<tbody>
<tr>
<td>Experts view: Biomarkers in early-detection of lung cancer: current concepts</td>
<td>Chairs: Charlotte De Bondt (Antwerpen, Belgium)</td>
<td>00:00</td>
</tr>
<tr>
<td><strong>Aims</strong>: To give an update on the status of biomarkers in the context of lung cancer screening. To identify challenges and pitfalls of biomarkers.</td>
<td><strong>Disease(s)</strong>: Thoracic oncology</td>
<td><strong>Biomarkers in early-detection of lung cancer: current concepts</strong></td>
</tr>
<tr>
<td>Luis M. Montuenga (Pamplona (Navarra), Spain)</td>
<td><strong>Method(s)</strong>: Cell and molecular biology</td>
<td><strong>Chairs</strong>: Charlotte De Bondt (Antwerpen, Belgium)</td>
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<tr>
<th>Session 14</th>
<th>Pre-congress content</th>
<th>00:00 - 23:59</th>
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<tbody>
<tr>
<td>Experts view: Pulmonary hypertension and interstitial pulmonary fibrosis</td>
<td>Chairs: Catharina Moor (Rotterdam, Netherlands)</td>
<td>00:00</td>
</tr>
<tr>
<td><strong>Disease(s)</strong>: Interstitial lung diseases, Pulmonary vascular diseases</td>
<td><strong>Method(s)</strong>: General respiratory patient care</td>
<td><strong>Pulmonary Hypertension and IPF</strong></td>
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<tr>
<td>Vincent Cottin (Lyon, France), Katerina Antoniou (Heraklion, Greece)</td>
<td><strong>Tag(s)</strong>: Clinical</td>
<td><strong>Chairs</strong>: Catharina Moor (Rotterdam, Netherlands)</td>
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<tr>
<th>Session 15</th>
<th>Pre-congress content</th>
<th>00:00 - 23:59</th>
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<tbody>
<tr>
<td>Experts view: Alpha 1 - antitrypsin deficiency: diagnosis and treatment</td>
<td>Chairs: Miriam Barrecheguren Fernandez (Barcelona, Spain)</td>
<td>00:00</td>
</tr>
<tr>
<td><strong>Aims</strong>: 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</td>
<td><strong>Disease(s)</strong>: Alveolar proteinosis</td>
<td><strong>Alpha 1 - antitrypsin deficiency: diagnosis and treatment</strong></td>
</tr>
<tr>
<td>Alice Turner (Birmingham (West Midlands), United Kingdom), Ilaria Ferrarotti (Pavia (PV), Italy)</td>
<td><strong>Method(s)</strong>: General respiratory patient care</td>
<td><strong>Chairs</strong>: Miriam Barrecheguren Fernandez (Barcelona, Spain)</td>
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<thead>
<tr>
<th>Session 16</th>
<th>Pre-congress content</th>
<th>00:00 - 23:59</th>
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<tbody>
<tr>
<td>Experts view: Hospital at home for the management of COVID-19</td>
<td><strong>Target audience</strong>: Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory physiotherapist, Respiratory critical care physician, Physician in Pulmonary Training, Medical Technical Assistant, Respiratory therapist, Medical Student, Scientist (basic, translational)</td>
<td>00:00</td>
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<tr>
<td><strong>Aims</strong>: 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.</td>
<td><strong>Disease(s)</strong>: Respiratory infections</td>
<td><strong>Hospital at home for the management of COVID-19</strong></td>
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<tr>
<td></td>
<td><strong>Method(s)</strong>: General respiratory patient care, Public health</td>
<td><strong>Chairs</strong>: Miriam Barrecheguren Fernandez (Barcelona, Spain)</td>
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</tbody>
</table>

| Target audience: | **Tag(s)**: COVID, Clinical, Digital health | **Pre-congress content** |
### Pre-congress content - Session 17
**00:00 - 23:59**

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

*The European Respiratory Society Presidential Summit 2021 panel discussion*

**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 innovative, virtual/multimodal education and communication skills.

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

**Tag(s):** Digital health

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

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Time</th>
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<tbody>
<tr>
<td>How to care for and communicate with patients digitally</td>
<td>Hilary Pinnock (Edinburgh, United Kingdom)</td>
<td>32</td>
</tr>
<tr>
<td>Digital approaches to promote adherence to treatments and patient education</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
<td>33</td>
</tr>
<tr>
<td>Digital training programmes: the best of new resources</td>
<td>Maxime Patout (Mont-Saint Aignan, France)</td>
<td>34</td>
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</tbody>
</table>

### Pre-congress content - Session 18
**00:00 - 23:59**

**Experts view: Digital health and innovation**

*The European Respiratory Society Presidential Summit 2021 panel discussion*

**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.

**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 (London, United Kingdom)

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<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Time</th>
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<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>
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</table>

### Pre-congress content - Session 19
**00:00 - 23:59**

**Experts view: Artificial intelligence and big data**

*The European Respiratory Society Presidential Summit 2021 panel discussion*

**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.

**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)

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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Artificial intelligence and big data</td>
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</table>
Statements and technical standards: ERS/EAACI statement on adherence to international adult asthma guidelines

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)
## Assembly members' meeting: Assembly 6: Epidemiology and environment

**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:** 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)
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)
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)

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)
## Session 27: Clinical techniques, imaging and endoscopy (13:30 - 14:30)

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

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## Session 28: Basic and translational sciences (15:30 - 16:30)

**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:** Catherine Greene (Dublin 9, Ireland), Silke Meiners (München, Germany), Aurelie Fabre (Dublin 4, Ireland), H. Irene Heijink (Groningen, Netherlands), Agnes W. Boots (Maastricht, Netherlands), Niki Ubags (Epalinges, Switzerland)
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 (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)

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)
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-Lopez (Dublin, Ireland), Marieke L. Duiverman (Groningen, Netherlands)

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), Stoja 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)
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)

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)

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)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Thermoplastie bronchique : indications actuelles / Asthma thermoplasty: current indications</td>
<td>Guilbert 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>Discussion and Q&amp;A</td>
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<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>Discussion and Q&amp;A</td>
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</tbody>
</table>

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

Joint session: Vaccination and infections

ERS/Industry joint session

**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. SARS/Corona2 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 reported. Strategies to increase vaccination rates will be discussed.

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>09:35</td>
<td>Prise en charge de l'emphysème : Approche personnalisée / Management of emphysema: personalised approach</td>
<td>Pierre-Régis Burgel (Paris, 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>Discussion and Q&amp;A</td>
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<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>Discussion and Q&amp;A</td>
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</tbody>
</table>
**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<tr>
<td>09:35</td>
<td>COVID 19 vaccination</td>
<td>Leif Erik Sander (Berlin, Germany)</td>
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<tr>
<td>09:55</td>
<td>New Influenza vaccines</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<tr>
<td>10:15</td>
<td>New pertussis vaccine</td>
<td>António Jaime Correia De Sousa (Porto, Portugal)</td>
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<tr>
<td>10:30</td>
<td>Discussion and Q&amp;A</td>
<td>Tobias Welte (Hannover, Germany), Leif Erik Sander (Berlin, Germany), António Jaime Correia De Sousa (Porto, Portugal)</td>
<td></td>
</tr>
</tbody>
</table>

**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)

| 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 Pinnock |
| OA76  | Greenhouse gas emissions associated with asthma care in the UK: results from SABINA CARBON | Alexander JK Wilkinson (, United Kingdom), Alexander Wilkinson, Ekaterina Maslova, Christer Janson, Vasantha Radhakrishnan, Jennifer K Quint, Nigel Badgen, Trung N Tran, John P Bell, Andrew Menzies-Gow |
| OA77  | Effectiveness of a pharmacist-led inhalation technique intervention on asthma and COPD patients: The INspra cluster-randomized controlled trial | António T. Rodrigues (, 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

OA82 Discussion

Channel 4  Session 43  09:30 - 11:00
Oral presentation: Chronic 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  Interstitial lung diseases
Method(s): General respiratory patient care  Pulmonary function testing  Epidemiology  Imaging  Physiology  Cell and molecular biology  Endoscopy and interventional pulmonology  Public health
Tag(s): COVID

Chairs: Michal Shteinberg (Haifa, Israel)

OA83 Introduction

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

OA85 Systemic SP-A is increased in COVID-19 patients with abnormal diffusion capacity 6 months after hospital discharge
Lidia Perea Soriano (Barcelona, Spain), Oriol Sibila Vidal, Nuria Albacar, Lidia Perea, Tamara Garcia, Núria Mendoza, Tamara Cruz, Sandra Casas, Jorge Moisés, Joan Ramon Badia, Joan Albert Barberà, Alvar Agustí, Jacober Sellarés, Rosa Faner

OA86 Persistent abnormalities on echocardiography post hospitalization for COVID-19
Bavithra Vijayakumar (Thame (Oxfordshire), United Kingdom), James Tonkin, Pallav L Shah

OA87 COVID-19: Is pulmonary damage present after 10 weeks follow-up?
Nienke Paternotte (Amsterdam, Netherlands), Ludmilla Messer, Willemien Thijs, Ella Van Den Hout, Suat Simsek, Astrid Aardenburg - Van Huisstede, Wim Boersma

OA88 COVID-19 in young and middle aged adults. Predictors of poor evolution and clinical differences.
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Leire Serrano Fernandez, Pedro Pablo España Yandiola, Raul Mendez, Borja Santos Zorrozua, Ane Uranga Echeverria, Paula Gonzalez Jimenez, Patricia Garcia Hontoria, Rosario Menendez Villanueva, Rafael Zalacain Jorge

OA89 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 Solá, Bienvenido Barreiro López, Gemma Grau Gómez, Anges Jaen Manzanera, 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 Lacasa

OA90 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 Gompelma

OA91 Severe COVID-19 pneumonia: clinical, functional, and imaging outcomes at 4 months
Thibault Viatgé (Toulouse, France), Elise Noel-Savina, Guillaume Favier, Benoit Lepage, Laurent Manna, Sandrine Pontier, Marion Dupuis, Samia Collot, Pascal Thomas, Jon Idoate Lacasia, 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 Luís Redondo Zaera, María Mercedes Cruz Díaz, 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), Jeannette Peters, Bram Van Den Borst, Jan Vercoulen

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, Marike H. Boezen

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 Pilters, Myrna M.T. De Rooij, Marielke Oldenwening, Marc Bonten, Ad C. Fluit, Dick Heederik, Fernanda L. Paganelli, 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, Iana Markevych, Bénédicte Jacquemin, Michael Abramson, Simone Accordini, Bertil Forsberg, Elaine Fuertes, Judith Garcia-Aymerich, Joachim Heinrich, Ane Johansen, Bénédicte Leynaert, Isabelle Pin

Carbon footprint of severe asthma exacerbation management relative to Breezhaler dry powder inhaler
Kai Michael Beeh (Wiesbaden, Germany), Simon Aumônier, 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), Coralynn Sack, Laura Paulin, Amanda Gassett, Cliford Sung, Jeremy Hess, Prescott Woodruff, Mark Dransfield, Robert Paine, Igor Barjaktarevic, Alejandro Comellas, 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, 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, Paraskeui Kavoura, Kallirroi Lambrou

Discussion
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 (München, 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, Sweden)

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

10:35 Discussion and Q&A

Studio Barcelona Session 46 09:30 - 11:00

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 (Izmir, 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

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)

09:30 Introduction

09:35 Patient's perspective
Olivia Fulton (Edinburgh (Edinburgh), United Kingdom)

09:40 Epidemiology and geographical variation in ventilator weaning
John Laffey (Galway, Ireland)

09:55 Personalised mechanical ventilation and weaning in patients with COPD
Lise Piquilloud (Lausanne, Switzerland)

10:10 Lung and diaphragm protective ventilation
Katerina Vaporidi (Heraklio, Greece)

10:25 The impact of machine learning on mechanical ventilation in critically ill patients
Lucas Fleuren (Amsterdam, Netherlands)

10:40 Discussion and Q&A

Studio Munich Session 48 09:30 - 11:00

Symposium: Holistic care in interstitial lung disease: monitoring the patient’s pathway
Monitoring patients with interstitial lung disease via telemedicine

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)

09:30 Introduction

09:35 Telemedicine: maintaining quality during times of transition
Ganesh Raghu (Seattle, United States of America)

09:50 Home monitoring: prognosis, benefits and pitfalls
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

10:05 Living well with pulmonary fibrosis: new insights
Elisabeth Bendstrup (Aarhus N, Denmark)

10:20 Patient-centred medicine in ILDs: towards a holistic approach
Anne-Marie Russell (Taunton, United Kingdom)

10:35 Discussion and Q&A
### Studio Paris  
#### Session 49  
**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)

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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Presentation of cases by the session facilitator</td>
<td>Monika Gappa (Düsseldorf, Germany)</td>
<td>Monika Gappa (Düsseldorf, Germany)</td>
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<tr>
<td></td>
<td>Case 1 - Author: Rachael Marpole, Australia</td>
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<td>Case 2 - Author: Tugba Ramasli Gursoy, Turkey</td>
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<td>Case 4 - Author: Tugba Ramasli Gursoy, Turkey</td>
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<td>10:55</td>
<td>Session wrap-up</td>
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### Channel 6  
#### Session 50  
**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 Galiè (Bologna (BO), Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)

<table>
<thead>
<tr>
<th>OA139</th>
<th>Introduction</th>
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<tr>
<td>OA140</td>
<td>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)</td>
<td>David Badesch (Aurora, United States of America), Simon Gibbs, Mardi Gomberg-Maitland, Marius Hoeppe, Vallerie McLaughlin, Joana Preston, Rogerio Souza, Aaron Waxman, Solaiappan Manimaran, Jennifer Barnes, Janeth De Oliveira Pena, Marc Humbert</td>
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<tr>
<td>OA141</td>
<td>Risk stratification in patients with pulmonary arterial hypertension (PAH) and candidates for lung or heart-lung transplantation</td>
<td>Hugues Vicaire (Paris, France), Jérôme Le Pavec, Athénaïs Boucly, Xavier Jais, Olaf Mercier, David Montani, Elie Fadel, Marc Humbert, Olivier Sitbon, Laurent Savale</td>
</tr>
<tr>
<td>OA142</td>
<td>Lack of agreement between the exercise variables to assess the risk in PAH</td>
<td>Víctor Manuel Mora Cuesta (Santander (Cantabria), Spain), Amaya Martinez 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</td>
</tr>
<tr>
<td>OA144</td>
<td>Dehydroepiandrosterone and GDF-15 for follow-up of patients with pulmonary arterial hypertension</td>
<td>Vasil Foris (Graz, Austria), Ceren Ayse Mutgan, Andrea Borenich, Gabor Kovacs, Philipp Douschan, Teresa Sassmann, Katarina Zeder, Andrea Olschewski, Grazyna Kwapiszewska, Horst Olschewski</td>
</tr>
</tbody>
</table>
### Pulmonary arterial hypertension in Adult-Onset Still’s Disease
Athénaïs Boucly (Le Kremlin Bicêtre, France), Stéphane Mitrovic, Laurent Savale, Xavier Jaïs, David Montani, Estibaliz Lazaro, Nicolas Schleimitz, Coralie Bloch-Querat, Christine Christides, Jacques Pouchot, Marc Humbert, Bruno Fautrel, Olivier Sitbon

### Association between Leflunomide and Pulmonary Hypertension
Thomas Lacoste Palasset (Saint mande, France), Marie-Camille Chaumais, Jason Weatherald, Laurent Savale, Xavier Jaïs, Laura C. Price, Charles Khouri, Sophie Bulifon, Andrei Seferian, Mitja Jevnikar, Athénaïs Boucly, Grégoire Manaud, Stefana Panoe, Celine Chabanne, Kais Ahmad, Mathilde Volpato, Nicolas Favrot, Anne Guillaumot, Delphine Horeau-Langlart, Grégoire Prévot, Pierre Fesler, Laurent Bertolletti, Martine Reynaud-Gaubert, Nicolas Lamblin, David Launay, Gérald Simonneau, Olivier Sitbon, Frédéric Perros, Marc Humbert, David Montani

### 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. Hoepner

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

### 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

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### Skills lab: Cardiopulmonary exercise testing
**Session 51**  10:00 - 12:00

**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>
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</table>
| 10:00 | Introduction  
Pierantonio Laveneziana (Paris, France), Michele Schaeffer (Vancouver (BC), Canada)  |
| 10:05 | Equipment explanation  
Joanna Shakespeare (Coventry (West Midlands), United Kingdom)  |
| 10:15 | Calibration  
Joanna Shakespeare (Coventry (West Midlands), United Kingdom)  |
| 10:25 | CPET procedure demonstration  
Pierantonio Laveneziana (Paris, France)  |
| 10:40 | Question and answers  
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)  |
| 10:45 | Interpretation  
Pierantonio Laveneziana (Paris, France)  |
| 11:25 | Clinical cases  
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)  |
| 11:45 | Questions and answer  
Paolo Palange (Rome, Italy), Susan Ward (Crickhowell, United Kingdom), J. Alberto Neder (Kingston (ON), Canada)  |
## ERS Virtual International Congress 2021

### DETAILED PROGRAMME

**SUNDAY 05 SEPTEMBER, 2021**

<table>
<thead>
<tr>
<th>Studio Amsterdam</th>
<th><strong>Session 52</strong> 11:00 - 11:15</th>
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<tbody>
<tr>
<td>Breakout room: Breakout room: Symposium, Repair and regeneration in chronic lung disease and lung cancer</td>
<td></td>
</tr>
<tr>
<td><strong>Chairs:</strong> Merian Kuipers (Den Haag, Netherlands), Georgios Stathopoulos (Munich, Germany), Janette K. Burgess (Groningen, Netherlands), Martina M. De Santis (Lund, Sweden), Pieter S. Hiemstra (Leiden, Netherlands)</td>
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<tr>
<th>Studio Barcelona</th>
<th><strong>Session 53</strong> 11:00 - 11:15</th>
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<tbody>
<tr>
<td>Breakout room: Breakout room: State of the art session, Airway diseases</td>
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<tr>
<td><strong>Chairs:</strong> Tommy Palai (Gaborone, Botswana), Alberto Papi (Ferrara, Italy), Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Lee Pyng (Singapore, Singapore), Konstantinos Kostikas (Ioannina, Greece)</td>
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<tr>
<th>Studio London</th>
<th><strong>Session 54</strong> 11:00 - 11:15</th>
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<tr>
<td>Breakout room: Breakout room: Symposium, New developments in mechanical ventilation and ventilator weaning</td>
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<tr>
<td><strong>Chairs:</strong> Sarang Patil (Dhule (Maharashtra), India), Olivia Fulton (Edinburgh (Edinburgh), United Kingdom), John Laffey (Galway, Ireland), Lise Piquilloud (Lausanne, Switzerland), Katerina Vaporidi (Herklaio, Greece), Lucas Fleuren (Amsterdam, Netherlands)</td>
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<tr>
<th>Studio Munich</th>
<th><strong>Session 55</strong> 11:00 - 11:15</th>
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<tbody>
<tr>
<td>Breakout room: Breakout room: Symposium, Holistic care in interstitial lung disease: monitoring the patient’s pathway</td>
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<tr>
<td><strong>Chairs:</strong> 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)</td>
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<tr>
<th>Studio Paris</th>
<th><strong>Session 56</strong> 11:00 - 11:15</th>
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<tr>
<td>Breakout room: Breakout room: Lungs on fire: LoF Paediatric respiratory diseases</td>
<td></td>
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<tr>
<td><strong>Chairs:</strong> Monika Gappa (Düsseldorf, Germany), Dilber Ademhan Tural (Ankara, Turkey)</td>
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<tr>
<th>Channel 2</th>
<th><strong>Session 57</strong> 11:15 - 12:45</th>
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</thead>
<tbody>
<tr>
<td>Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care</td>
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</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):** 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 Vagheggi (Volterra (PI), Italy), Rachael A. Evans (Leicester (Leicestershire), United Kingdom)

<table>
<thead>
<tr>
<th>OA159</th>
<th>Introduction</th>
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| 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. Kolen, Jeanine C. Antons, Marinscub, M. C. De Man, Remco S. Djamin, Alex J. C. 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 Vogiatis |

| OA162 | Proposed MID in FACTT 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 |

| OA163 | 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 García-Hernández, Juan Orozco-Gutiérrez, Carlos Aboitiz-Rivera |

| OA164 | Altered calcium response in stimulated myotubes from COPD patients  
Pascal Pomiès (Montpellier Cedex 5, France), Anne Virsolvy, Emilie Passerieux, Bronia Ayoub, Maurice Hayot |
The sound of anxiety: exploring the effect of audio recordings of breathing on self-reported breathlessness
Simón 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 Kotouchkova, Gouri Koduri, Dora Amran, Duncan Powrie

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

Comprehensive pulmonary rehabilitation (PR) decreases frailty in lung transplant recipients – a prospective observational study
Tessa Schneeberger (Schönau am Königsee, Germany), Maximilian Gaida, Inga Jarosch, Daniela Leitl, Rainer Gloeckl, Klaus Kenn, 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, Gwyneth Davies, Mark Williams, Ronan Berg, Kelly Mackintosh

Discussion

Channel 3

Session 58

Oral presentation: Non-pulmonary arterial hypertension pulmonary 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.

This session includes the Best Abstract for Assembly 13 - Pulmonary Vascular Diseases, entitled "Current strategies for managing CTEPH"

Disease(s): Pulmonary vascular diseases
Airway diseases
Interstitial lung diseases

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

Chairs: Silvia Ulrich (Zurich, Switzerland), Luke Howard (London, United Kingdom)

OA171 Introduction

OA172 Frequency and risk factors for Chronic Thromboembolic Pulmonary Hypertension after a first unprovoked Pulmonary Embolism: results from PADIS-studies.

OA173 Characteristics of chronic thromboembolic pulmonary hypertension in Ireland
Sarah Cullivan (Cavan, Ireland), Barry Kevane, Fionnual Níainle, Brian Mccullagh, Sean Gaine

OA174 Current strategies for managing CTEPH
Marion Delcroix (Leuven, Belgium), Joanna Pepke-Zaba, Elie Fadel, David Jenkins, Nick Kim, Michael Madani, Hiromi Matsubara, Gerald Simonneau, Eckhard Mayer, Irene Lang

OA175 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, Wil Janssens, Marion Delcroix

OA176 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 Saxon, 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
Laura C Price, Timothy Dawes, Konstantinos Dimopoulos, Colm Mccabe, Simon Bax, Aleksander Kemprny, Philip Molyneaux, Peter George, Vasilis Kouranos, Felix Chua, Elisabetta Renzoni, Maria Kokosi, Athol U Wells, S John Wort

OA178 Selection of a gene panel related to pulmonary hypertension associated with respiratory diseases
Adelaida Bosacoma (Barcelona, Spain), Daniel Aguilar, Agustin Garcia, Isabel Blanco, Clara Martín-Ontiayelo, Ana Ramirez, Ylenia Roger, Jeisson Osorio, Olga Tura-Ceide, Victor Ivo Peinado, Joan Albert Barberá
Incremental experience in optimizing in vitro primary culture of human pulmonary arterial endothelial cells harvested from Swan-Ganz catheters
Rozenn Quarck (Leuven, Belgium), Birger Tielemans, Leanda Stoian, Allard Wagenaar, Mathias Leys, Catharina Belge, Marion Delcroix

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

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 (Vejle, Denmark), Thomas Janssens (Leuven, Belgium)

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

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

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

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

Psychological functioning and lifestyle behaviours of patients with idiopathic pulmonary fibrosis: a prospective study anouk delameillieure (Leuven, Belgium), Fabienne Dobbels, Katleen Leecouve, Danielle Strens, Sara Van Der Auwera, Karolien Verheyen, Jonas Yserbyt, Wim Wuyts

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

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

Impact of COVID-19 on mental health: a traumatic event
Maarten Van Herck (Diepenbeek, Belgium), Sarah Houben-Wilke, Yvonne Goërt, Jeannet Delbresse, Anouk Vae, Roy Meys, Felipe Machado, Chris Burtin, Rein Posthuma, Frits Franssen, Herman Vijlbrief, Yvonne Spies, Alex Van ‘T Hul, Martijn Spruit, Daisy Janssen

Sex differences in mental health of hospitalized patients with COVID-19
Zafeiria Barmparessou (Athens, Greece), Sofia Pappa, Apostolos Pappas, Kostas Eleftheriou, Stavros Patrinos, Eftychia Polydora, Nikolaos Athanasiou, Ioannis Kalomenidis, Paraskevi Katsaounou

Symposium: Noninvasive respiratory support in hypoxic respiratory failure: stay safe and know your limits

Discussion
Aims: To 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
    Speaker to be confirmed

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

12:20 Discussion and Q&A

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 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 (München, 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
    Andreas Wack (London, United Kingdom)

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

12:20 Discussion and Q&A

Studio Barcelona Session 62 11:15 - 12:45

Clinical trials session: ALERT: COPD
**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 (Izmir, Turkey)

**RCT205 Introduction**

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 Ransheh, Koirobi Haldar, Adam K A Wright, Petr Novotny, Parker Sarah, Parker Sarah, Groovee Finch, Kate Hadley, Niamh Quann, Claudia Micieli, Vijay Mistry, Cassandra Brookes, Rachel Hobson, Wadah Ibrahim, Richard Russell, David F Choy, Dorothy Cheung, Michele Grimaldston, Catherine John, Michael Steiner, Neil J Greening, Christopher E Brightling

**RCT206**

RCT Abstract - Randomized, double-blind, placebo-controlled, phase III clinical trial with MV130, a sublingual bacterial immunotherapy to prevent COPD exacerbations

Laura Conejero Hall (Madrid, Spain), Luis Puente Maestu, Myriam Calle Rubio, Walter Girón, Carlos José Alvarez Martínez, María Jesús Buendia García, Joan Serra Batllés, Juan Luis Rodríguez Hermosa, 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 Rodriguez Sainz, Cristina Fernández Pérez, Ana Doyle, Raquel Caballero, José Luis Subiza, Miguel Casanovas, Eduardo Fernández-Cruz

**RCT207**

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

**RCT208 Wrap-up by discussant and discussion**

Speaker to be confirmed

**RCT209**

Late Breaking Abstract - First-time assessment of efficacy of candidate vaccine to prevent acute exacerbations of chronic obstructive pulmonary disease (AEOPD): 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 Pok, Luis Puente-Maestu, Dinesh Saralaya, Henrik Watz, Tom Ma Wilkinson, Daniela Casula, Gennaro Di Marco, Maria Lattanzi, Luca Moraschini, Sonia Schoonbroodt, Annaelisa Tasciotti, Ashwani K Arora, François Maltais

**RCT210 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 Heslop, Moira Kelly, Stefan Priebe, C Michael Roberts, Sally Singh, Sarah Saqi-Waseem, Martin Underwood, Patrick White, Chris Warburton

**RCT211 Wrap-up by discussant and discussion**

Jadwiga Wędzicha (London, United Kingdom)

**RCT212 Closing remarks**

Jadwiga Wedzicha (London, United Kingdom)
### Session 64: 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)

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<th>Speaker</th>
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<tr>
<td>11:17</td>
<td>Use of antifibrotics in post-COVID ILD: PRO</td>
<td>Bruno Crestani (Paris, France)</td>
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<tr>
<td>11:29</td>
<td>Use of antifibrotics in post-COVID ILD: CON</td>
<td>Sara Tomassetti (Florence, Italy)</td>
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<tr>
<td>11:41</td>
<td>Discussion and Q&amp;A</td>
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### Session 65: 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.

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

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

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist

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

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<tr>
<td>11:17</td>
<td>Parent perspectives and input into the guideline</td>
<td>Zena Powell (Aylesbury, United Kingdom)</td>
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<td>11:22</td>
<td>Overall clinical approach</td>
<td>Andrew Bush (London, United Kingdom)</td>
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<tr>
<td>11:31</td>
<td>Treatment options and recommendations</td>
<td>Keith Grimwood (Gold Coast (QLD), Australia)</td>
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</table>
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

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), Aninka Goorsenberg, 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, Eric Ross, Yulan Gong, Hornoz 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, Alfons Torrego, Virginia Pajares, Katja Stiebeling, Regina Musterle, Marius Horger, Falko Fend, Arne Warth, Claus Peter Heussel, Sara Piciucchi, Alessandra Dubini, Dirk Theegarten, Tomas Franquet, Enrique Lerma, Venerino Poletti, Maik Häntschel

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
Ida Skovgaard Christiansen (København N, Denmark), Uffe Bodgter, Rafi Nessar, Goran Nadir Salih, Shailesh Kolekar, Jatinder Singh Sidhu, Asbjørn Hagholm, 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 Andreani, 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

OA238 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

OA239 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 Akultan

OA240 Discussion

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
Sanjeeva 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

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 Khander Rao 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)

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)

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<td>12:05</td>
<td>Introduction</td>
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<td>12:07</td>
<td>Why guidelines for asthma diagnosis in school children? Background and motivation</td>
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<td>12:17</td>
<td>How should asthma be diagnosed in school children? Recommendations of the evidence based ERS-Guidelines</td>
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<td>12:27</td>
<td>Parent's view</td>
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<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>
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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), Andreas Wack (London, United Kingdom), Catherine Greene (Dublin 9, Ireland)

Studio Barcelona  Session 73  12:45 - 13:00

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

Chairs: Tommy Palai (Gaborone, Botswana), Jadwiga Wedzicha (London, United Kingdom), Chair to be confirmed

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: 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)

Studio Paris  Session 76  12:45 - 13:00

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), Chair to be confirmed

Skills lab  Session 77  13:00 - 15:00

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)

13:00 Introduction
Anita Simonds (London, United Kingdom), Lise Piquilloud (Lausanne, Switzerland)

13:05 Continuous positive airway pressure, non-invasive ventilation and high flow nasal oxygen: lessons for success
Lara Pisani (Bologna (BO), Italy), Joao Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)

13:30 Invasive mechanical ventilation in severe respiratory failure and extracorporeal membrane oxygenation
Giacomo Grasselli (Milano (MI), Italy), Maxime Patout (Mont-Saint Aignan, France)

13:55 Weaning and tracheostomy care
Michelle Chatwin (London, United Kingdom), Nicholas Terzi (Grenoble, France)

14:20 Rehabilitation and physiotherapy following acute respiratory failure
Tiina Andersen (Bergen, Norway), Cheryl Hickmann (Brusels, Belgium)

14:45 Discussion
Anita Simonds (London, United Kingdom), Lise Piquilloud (Lausanne, Switzerland)

13:00-14:30 INDUSTRY VIRTUAL SYMPOSIUM
SEE PAGE 1

Pre-congress content Session 83 13:15 - 14:15

**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

**PA287**
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

**PA288**
Impact of the COVID -19 pandemic on pleural infections: A multicentre retrospective analysis
Khali 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

**PA289**
Bacterial Pneumonias: Before and after the COVID-19 pandemic
Khali Ur Rehman (London, United Kingdom), Parthipan Sivakumar

**PA290**
Covid-19 and obesity
marzouki safa (tunisia, Tunisia), marzouki safa, Maazaoui Sarra, Nouira Imen, Hbibech Sonia, Chaabene Mariem, Racil Hajer, Chaouch Nawel

**PA291**
COVID-19: pneumonia and comorbidities at three sites of medical care
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Sergiu Matcovschi, Ion Sirbu, Nina Chiec, Viorica Chihai, Virginia Cescaval, Taitiana Dumitrasc

**PA292**
The effect of the novel type coronavirus infection on the mental health of the patients
Esen Sayin Gülensoy (Ankara-Balgat, Turkey), Betül Gürsoy Çiçek, Aycaan Yüksek, Aslıhan Alhan, Nalan Ogan, Evrim Eylem Akpınar
Prognosis value of hypertension in Covid-19 infection
imen nouira (monastir, Tunisia), Sarra Maazaoui, Safa Marzouki, Sonia Habibech, 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, Mejdoub Fehri Sabrine, El Euch Dhia, Ghribi Wajih, Gannouni Ahmed, Kwas Hamida

Persistent symptoms and quality of life after novel coronavirus infection (COVID-19)
Ekaterina Makarova (Nizny Novgorod, Russian Federation), Natalya Lyubavina, 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), Iffat Khanum, Syed Zubair, Muhammad Ali Ibrahim Kazi, Urooj Riaz, Muhamma Ifran, Ali Zubairi, Javaid A. Khan, Safia Awan

Clinical characteristics and outcomes of hospitalized COVID-19 pneumonia: impact of gender
Imen Sahoun (Ariana, Tunisia), Soumaya Debiche, Ameni Ben Mansour, Asma Zaafouri, Sarra Ben Sassi, Soumaya Ben Saad, Fatma Ezzahra Dabbebi, Hafaaoua Daghouf, Sonia Maalej, Fatma Trtar, Leila Douik El Gharbi

Evaluation of the quality of life in patients treated for COVID-19 at the Hassan II hospital in Agadir using the MOS SF-36 questionnaire
fatiha bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane

Post-discharge persistent symptoms after hospitalization for COVID-19
Asma Allouche ( Bizerta, Tunisia), Sonia Toujani, Abir Hedhli, Yacine Ouahchi, Warda Jelassi, Cyrine Echeikh, Sana Cheikh Rouhoul, Samira Merai, Meriem Mjid, Besma Dhalri

Prevalence and impact of chronic respiratory disease in moderate to severe COVID-19 outcomes
Sarbrine Louhaichi (Ariana, Tunisia), Safa Belkhir, Ikbelle Khalfallah, Nouha Boubaker, Mariem Ferchichi, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

Recovery in patients with SARS-CoV-2 associated respiratory failure
Dario Kohlbrenner (Zurich, Switzerland), Manuel Kuhn, Melina Stüssi-Helbling, Marc Spielmanns, Yves Nordmann, Christian F. Clarenbach

Association between age and clinical characteristics and outcomes of SARS COV2 pneumonia
Ahmed Dhia EL-EUCH (Sfax, Tunisia), abdmouleh khouloud, Mejdoub Fehri Sabrine, Ghribi Wajih, El Euch Dhia, Gannouni Ahmed, Kwas Hamida

Obesity and its implications for COVID-19 evolution in Tunisian population
Asma Allouche (Bizerta, Tunisia), Jihen Ben Amar, Khouloua Hemissi, Khadija Echi, Emna Ben Jemia, Haifa Zaibi, Hichem Aouina

Cognitive dysfunction in patients after COVID-19 with lung involvement
Nailya Shamsutdinova (Kazan, Russian Federation), Diana Abduliganieva, Elina Kirillova, Diana Gaisina, Alina Fatikhova, Ekaterina Dyakova

Determination of community acquired pneumonia (CAP) severity in pregnant (pr.)
Nataliia Kravchenko (Минск, Belarus), Bohdana Basina, Tetiana Kirieieva

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)

Short Physical Performance Battery: Response to pulmonary rehabilitation and MCIDs in patients with COPD
Anouk Stoffels (Nijmegen (GE), Netherlands), Jana De Brandt, Roy Meys, Hieronymus Van Hees, Anouk Vaes, Peter Klijn, Chris Burtin, Frits Franseen, Bram Van Den Borst, Maurice Sillen, Daisy Janssen, Martijn Spruit
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<tr>
<th>PA308</th>
<th>The different sensations of breathlessness in patients with COPD- is all breathlessness the same?</th>
<th>Enya Daynes (Leicester, United Kingdom), Neil Greening, Sally Singh</th>
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<td>PA309</td>
<td>Metabolic and inflammatory profile in patients with COPD and physical activity.</td>
<td>Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Gergo Szollosi, Stefano Tarantini, Anna Nemeth, Csenge Bodola, Luca Varga</td>
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<td>PA310</td>
<td>Physical inactivity accentuates impairment of pulmonary mechanics in persistent moderate asthmatics: involvement of nitric oxide</td>
<td>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</td>
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<td>PA311</td>
<td>The role of physical rehabilitation in the treatment of bronchial asthma patients</td>
<td>Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovsky, Ksenia Ostrovskva, Iryna Savelikhina, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Galyna Korzh, Nadia Korzh</td>
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<td>PA312</td>
<td>Physical frailty in COPD patients with chronic respiratory failure</td>
<td>Sarah Gephine (Québec (QC), Canada), Patrickucci, Jean-Marie Grosbois, François Maltais, Didier Saey</td>
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<td>PA313</td>
<td>Reliability, construct validity and determinants of 6-minute walk distance in patients with asthma</td>
<td>Roy Meys (Horn, Netherlands), Steffi Janssen, Frits Franssen, Anouk Vaes, Anouk Stoffels, Hieronymus Van Hees, Bram Van Den Borst, Peter Klijn, Chris Burtin, Alex Van 'T Hul, Martijn Spruit</td>
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<td>PA314</td>
<td>Validity and reliability evidence of general self-efficacy scale in Greek adults with asthma</td>
<td>Andreas Daskalakis (N. Smyrni - Athens, Greece), Eleni Smyrli, Eirini Grammatopoulou, Vasilis Brisimis, Aikaterini Chaniotou</td>
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<td>PA315</td>
<td>Psychometric validation of the Korean PROMIS-29 Profile v2.1 among patients with chronic pulmonary diseases in Korea</td>
<td>Heesu Nam (Seoul, Republic of Korea), Danbee Kang, Bo Guen Kim, Sun Hye Shin, Hye Yun Park, Hyun Lee, Juhee Cho</td>
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<td>PA316</td>
<td>Late Breaking Abstract - Feasibility of instrumented ventilatory and functional evaluation in patients with chronic obstructive pulmonary disease</td>
<td>Simone Pancera (Manerbio, Italy), Luca Nicola Cesare Bianchi, Roberto Porta, Jorge Hugo Villafañe, Nicola Francesco Lopomo</td>
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<td>PA317</td>
<td>Effects of a NMES program in exercise capacity of hospitalized severely hypoventilated COPD patients</td>
<td>Andrés Calvache Mateo (Granada, Spain), Laura López López, Janet Remedios Rodríguez Torres, Irene Torres Sánchez, María Granados Santiago, Alicia Conde Valero, Marie Carmen Valenza</td>
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<td>PA318</td>
<td>Urinary symptoms are very frequent among people with chronic respiratory disease attending pulmonary rehabilitation</td>
<td>Francis-Edouard GRAVIER (Bois-Guillaume, France), Léna Bocquet, Pauline Smondack, Guillaume Prieur, Yann Combrét, Jean-François Muir, Antoine Cuvelier, Fairuz Boujibar, Clément Médralin, Tristan Bonnevie</td>
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<td>PA319</td>
<td>Differences in the response to pulmonary rehabilitation in patients with COPD according to their age range.</td>
<td>Vicente Benavides Córdoba (Cali, Colombia), Jhonatan Betancourt-Peña, Juan Carlos Avila-Valencia, Maria Camila Cano-Laspirilla, Jacklin Astrid Martínez-Valencia, Alexandra Osorio Cañasteda</td>
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<td>PA320</td>
<td>Adherence to singing training vs. Physical training in COPD rehabilitation</td>
<td>Mette Kaasgaard (Copenhagen, Denmark), Daniel Bech Rasmussen, Karen Andreasson, Anders Lokke, Peter Vuust, Ole Hilberg, Uffe Bodtger</td>
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<td>PA321</td>
<td>The effects of inspiratory muscle warm-up prior to inspiratory muscle training during pulmonary rehabilitation in subjects with COPD</td>
<td>Ridvan AktaN (Balcova (İzmir), Turkey), Sevgi Ozalevli, Hazal Yakut, Aylin Ozgen AlpaydIn</td>
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<td>PA322</td>
<td>Clustering of COPD patients admitted to pulmonary rehabilitation: a retrospective cohort analysis</td>
<td>Yara Al Chikhanie (Dieulefit, France), Sébastien Bailly, Daniel Veale, Frédéric Hérent, Samuel Verges</td>
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<td>PA323</td>
<td>Clinical utility of gait and walking parameters in COPD, a scoping review</td>
<td>Laura Delgado Ortiz (Barcelona, Spain), Ashley Polhemus, Nikolaos Chynkiamis, Sara Button, Sofie Breuls, Sarah Koch, Magda Bosch De Baeza, Dimitris Megaritis, Elena Gimeno-Santos, Heleen Demeyer, Nick Hopkinson, Ioannis Vogiatzis, Thierry Troosters, Anja Frei, Judith García-Aymerich</td>
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<td>PA324</td>
<td>The impact of locomotor syndrome on quality of life and functionality of COPD patients</td>
<td>Maria Granados Santiago (Alcaudete, Spain), Georgina Jiménez Lozano, Araceli Ortiz Rubio, Natalia Muñoz Viguera, Irene Cabrera Martos, Marie Carmen Valenza</td>
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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, 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): Pulmonary rehabilitation, Public health, General respiratory patient care, Pulmonary function testing, Epidemiology

Tag(s): COVID

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

PA327  Sebatian Rutkowski (Opole, Poland), Jan Szczegielniak, Joanna Szczepańska-Gieracha
Self-reported respiratory symptoms are poor indicators of exercise-induced bronchoconstriction in early-career athletes

PA328  Karin Ersson (Uppsala, Sweden), Christer Janson, Elisabet Mallmin, Leif Nordang, Katarina Norlander, Henrik Johansson, Andrei Malinovschi
Development of a physiotherapist-led remote breathlessness clinic for community lung patients: the Respiratory Advice and Management Physiotherapy (RAMP) service.

PA330  Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Sara Almeida, Bruno Cabrita, Catarina Cascais Costa, Paula Simão, Chris Burtin, Alda Marques
The compare of neck pain and disability between COPD Patitens and healthy subjects

PA332  Furkan Özdemir (Ankara, Turkey), Meral Bosnak-Guclu, Hanım Eda Goktas, I. Kıvılcım Oguzulgen
Depression, anxiety, sleep quality and fatigue in patients with stable asthma

PA333  Claire Hepworth (Liverpool (Merseyside), United Kingdom), Ian Street, Philip Lawrence, Su De, Ian Sinha
Phenotypic features of bullying induced dyspnoea in children.

PA334  Furkan Özdemir (Ankara, Turkey), Naciye Vardar Yağlı
Correlations between mental disorder symptoms and pulmonary functions and respiratory muscle strength in healthy adults

PA335  Caroline Maschio de Censo (São Paulo, Brazil), Eloise Arruda Santos, Thiago Fernandes, Rafaela Fagundes Xavier, Regina Carvalho-Pinto, Rafael Stelmach, Celso Ricardo Fernandes Carvalho
Elastic tape reduces dyspnea and improves health status in males with COPD: a randomized controlled trial

PA336  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, Alda Marques
Relationship between fatigue, physical activity and health-related factors in COPD

PA337  Fien Hermans (Gent, Belgium), Bihiyga Salhi, Evelien De Burck, Katlijn Geeurickx, Wendy Vanloo, Patrick Calders, Eric Derom, Heleen Demeyer
The effect of the Belgian COVID-19 lockdown on the rehabilitation of patients with respiratory diseases

PA338  Elif Develi (Istanbul, Turkey), Aslı Yeral, Ayca Yagcioglu, Sahra Can Sirvan, Hande Besna Gocen, Ata Tektin, Dogukan Tongar, Yasar Kucukardali, Feryal Subasi
The effects of COVID-19 outbreak on quality of life, physical activity level, dyspnea, lower extremity muscle endurance and falling risk in asthmatic elderly.
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<td>PA339</td>
<td>Impact of social distancing during the COVID-19 pandemic on clinical outcomes of patients with interstitial lung disease</td>
<td>Gabriela Garcia Krinski (Londrina-PR, Brazil), Larissa Dragonetti Bertin, Camile Ludovico Zamboti, Thatielle Garcia, Heloise Angélico Pimpão, Heloíza Dos Santos Almeida, Brunna Luiza Silva Tavares, Nidia Hernandez, Marcos Ribeiro, Fabio Pitta, Carlos Augusto Camillo</td>
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<td>PA340</td>
<td>Physical activity in patients with lung disease over COVID-19 lockdown</td>
<td>Nicola Sante Diciolla (Madrid, Spain), Alba Real-Rodriguez, Ana Filipa Machado, Cristina Jácome, Alejandro Quintela-Del Rio, Jaime Cabo-Tabernero, Ana Lista-Paz</td>
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<td>PA341</td>
<td>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</td>
<td>Ridvan Aktan (Balcova (İzmir), Turkey), Seygi Ozalevli, Hazal Yakut, Büşra Alkan, Aylin Ozgen Alpaydin</td>
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<td>PA342</td>
<td>Investigation Of The Dyspnea Perception In The Elderly Who Underwent Home Quarantine Due To Covid-19 Pandemics in Turkey</td>
<td>Buke Barutçu Akinci (İstanbul, Turkey), Sena Karaduman, Sümayeye Seferoğlu, Rauf Metehan Yalçın, Buse Özgenç, Özgenur Şahin, Büşra Sultan Öztürk, Eda Özkan</td>
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<td>PA344</td>
<td>Association of sleep quality with clinical outcomes of adults with asthma during the COVID-19 pandemic</td>
<td>Thaína Bessa Alves (Londrina, Brazil), Joice Mara Oliveira, Vitória Puzzi, Jéssica Priscila Silva, Andréa Daiane Fontana, André Vinicius Santana, Nidia A Hernandes, Arthur Eumann Mesas, Fabio Pitta, Raquel Pastrello Hirata, Karina Couto Furlanetto</td>
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<td>PA345</td>
<td>The Experiences of Children/Adolescents with Cystic Fibros During the COVID-19 Pandemic</td>
<td>Cemile Bozdemir Ozel (Eskisehir, Turkey), Raziye Nesrin Demirtas, Abdurrahman Arslan, Gonca Kilic Yildirim</td>
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**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 Mejía, Diego Alexis García-Estudillo, Jorge Rojas-Serrano, Heidegger Mateos-Toledo, Andrea Estrada-Garrido, Jhonathan 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 Wildner |
| 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 (Nottigham, 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 |
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 Dessle, Henrik Johansson, Shamisa Adeli, Andrei Malinovschi, Maija-Leena Eloranta, Tomas Hansen

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

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

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

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

A fully automated cardiac magnetic resonance (CMR) assessment improves the evaluation of patients with pulmonary arterial hypertension (PAH)
Samer Alabed (Sheffield, United Kingdom), Kavita Karunasaagarar, 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-techtrenil 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 (Lieve, Belgium), Julien Guiot, Akshaya Vaidyanathan, Fabila Zerka, Louis Deprez, Denis Danthine, Anne-Noëlle Frix, Fabio Bottari, Monique Henket, Stephane Mathieu, Philippe Lambin, Sean Walsh, Mariacelen 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, Lara Letizia Latini, 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 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: Manuel Sanchez De La Torre (Lleida, Spain), Athanasia Pataka (Thessaloniki, Greece)
PA364 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

PA365 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

PA366 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

PA367 Disregulation of iron metabolism and atherosclerotic changes in Obstructive sleep apnoea Ventislava Pencheva Genova (Sofia, Bulgaria), Victor Manolov, Ognian Gerogiev, Vasil Vasilev, Savina Hadjidekova, Latchezar Traykov, Kamem Tzatchev

PA368 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 Gourgoulianis

PA369 Differences in glucose/lipid metabolic factors between obese/non-obese subjects with higher apnea-hypopnea index Masakou 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 Frelnt, Martina Meszaros, Laszlo Kunos, Alexander Mathioudakis, Alina Gabriela Negru, Stefan Mihaiicuta

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

PA372 Relationship between neck fat volume and severity of obstructive sleep apnea Glenda Ernst (Ciudad Autonoma 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 (ΑΑΠΙΣΑ, Greece), Vasileios Stavrou, Kyriaki Astara, George Vavougios, Eleon Karetse, Dimitra Siachpazidou, Pirini Papayianni, Zoe Daniil, Konstantinos Gourgoulianis

PA374 Prevalence of Cardiometabolic Disease in the Greek Sleep Apnea Patients Cohort Dimitra Siopi (Athens, Greece), Georgia Trakada, Vlassios Dimitriadis, Anastasia Amfilochiou, Vasiliki Paschidou, Christina Alexopoulos, Maria Vassou, Athanasios Konstantinidis, Paschalis Steiropoulos, Athanasia Pataka, Christos Karachristos, Michalis Agrafiotis, Anastasia Chasiotou, Chariklea Tselep, Anastasios Kallianos, Maria Fountoulaki, Athanasios Gourmis, Konstantinos Porpodis, Eumorfia Kondili, Pantelis Natsias, 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 Sedat Beyhan Sagyen (Istanbul, Turkey), Omer Zengin, Nesrin Kiral, Ali Fidan, Sevd Sener Comert

PA377 Apnea-hypopnea index of 4 per hour serves as a metabolomic breakpoint in patients referred for polysomnography Okt Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Ketlin Veevall, Ragne Tamn, Triin Laurits, Birgit Ahas, Martin Juss, Tuulikhi Hion, Roman Pihlakas, Kalle Kilk, Ursel Soomets, Alan Alraj

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

PA379 Effects of chronic intermittent hypoxia caused by obstructive sleep apnea in 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 Almendres (Barcelona, Spain), Lidia Sanchez-Alcoholado, Aurora Laborda Illanes, Isaac Plaza-Andrade, David Gozal, Ramon Farre, Maria I Queipo-Ortuño
Quality of life impairment in patients with obstructive sleep apnea
Imen Touil (Mahdia, Tunisia), Touil Imen, Oumrane Amira, Ksissa Souhir, Brahem Yosra, Keskes Boudawara Nadia, Bouchareb Soumaya, Baili Hassen, Bouzgarrou Lamia, Knani Jalel, Bousoffara Leila

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

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)

Prevalence of novel myositis autoantibodies in a large cohort of patients with interstitial lung disease
Sofia A. Moll (Nieuwegein, Netherlands), Mark Platenburg, Anouk Platteel, Adriane Vorselaars, Montse Janssen, Raisa Kraaijvanger, Claudia Roordenburg-Benschop, Bob Meek, Coline Van Moorsel, Jan Grutters

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, Jin Woo Song

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 Bargantini, Paolo Cameli, Maria Pieroni, Rosa Metella Refini, Piersante Sestini, Elena Bargagli

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

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 (Athens, Greece), Serafeim Chrysikos, Ioannis Vamvakaris, Ourania Papaioannou, Evangelos Bouros, Vasilius Tzilas, Matthais Katsaras, Katerina Dimakou, Effrosyni Manali, Spyridon Papiris, Demosthenes Bouros, Petros Bakakos, Argyris Tzouvelekis

Theodore L. S. (Edinburgh, United Kingdom), Andrea Pereira, Harriet Bothwell, Kritica Dwivedi, Armlia Rathnapala, Rosia Barker, Valentina Iotchkova, Rachel Hoyle, Ling-Pei Ho

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

PD-L1 expression in patients with idiopathic pulmonary fibrosis.
Sissel Kronborg-White (Lystrup, Denmark), Line Bille Madsen , Elisabeth Bendstrup, Venerino Poletti

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), Graziella Turato, Erica Bazzan, Alvise Casara, Giordano Fiorenti, Fiorella Calabrese, Federico Rea, Alessandro Sanduzzi, Manuel G Cosio, Marina Saetta, Paolo Spagnolo, Elisabetta Balestro

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

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 Horimase, Lisa Carlson , Ida Pesonen, Noboru Hattori , Magnus Skold

Autoantibodies in Interstitial Lung Diseases
Asli Bostanoglu (Ankara, Turkey), Gokhan Celik
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<th>PA395</th>
<th>A systematic review and individual participant data meta-analysis of MMP-7 and outcomes in idiopathic pulmonary fibrosis</th>
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<td>Fasihul Khan (Nottingham, United Kingdom), Fasihul Khan, Iain Stewart, Gauri Saini, Karen A Robinson, Gisli Jenkins</td>
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<th>PA396</th>
<th>Feasability of home spirometry in patients with Interstitial lung disease (ILD) during the COVID-19 pandemic</th>
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<td>Andrew Achaiah (Oxford, United Kingdom), Carmine Ruggiero, Vishal Nathwani, Emily Fraser, Rachel Hoyles, Peter Saunders</td>
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<th>Cost-effectiveness of an online homemonitoring program in idiopathic pulmonary fibrosis</th>
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<th>PA398</th>
<th>Real world patient experience of home spirometry within a UK ILD centre</th>
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<td>Carmine Ruggiero (Oxford, United Kingdom), Shakila Hussain, Andrew Achaiah, Emily Fraser, Peter Saunders, Rachel K Hoyles</td>
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<th>PA399</th>
<th>STARLINER study; patients’ and doctors’ experiences with a digital eco-system</th>
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<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup, Claudia Valenzuela, Michael T. Henry, Monica Bengus, Frank Gilberg, Klaus-Uwe Kirchgaessler, Carlo Vancheri</td>
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<th>PA400</th>
<th>Quality of life improvement after one-year integral home-care program in IPF patients that receive nintedanib</th>
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<td>Cristina Ruiz Herrero (Hospital del Llobregat, Spain), Laura Cobo Sanchez, Karina Portillo, Ana Boldova Lостералес, Alejandro Robles, Jesus Arribas, Jose A Figueroa, Rosana Blavia, Yolanda Belmonte, Amalia Moreno, Diego Castillo, Anna Villar, Dilar Badenes, Danny Zayas, Guillermo Suarez, Laia Garcia, Eva Balcels, Jacobo Sellares, Yohana Garcia, Silvia Barril, Jordi Sans, Mireia Serra, Danià Perich, Lluis Esteban, J Dorca, Paulina Cerda-Cortes, Josep Palma, Esther Ruiz, Maria Molina Molina</td>
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<th>PA401</th>
<th>EPIDIA: an App to to assist physicians in the care of patients with interstitial lung diseases</th>
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<td>Gabriela Claudia Tabaj (Ciudad Autónoma Buenos Aires, Argentina), Brenda Varela, Lucas Sheridan</td>
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<th>PA402</th>
<th>Agreement in the evaluation of interstitial lung diseases between multiples observers and a mobile app in Argentina</th>
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<td>Brenda Elena Varela (Ciudad Autónoma Buenos Aires, Argentina), Gabriela Claudia Tabaj</td>
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**Pre-congress content**

**Session 89**

13:15 - 14:15

**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)

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<th>PA403</th>
<th>Time course of cerebral oxygenation in highlanders: 5-year prospective study.</th>
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<td>Matthias Cornelius Luyken (Heidelberg, Germany), Paula Appenzeller, Philipp M Scheiwiller, Mona Lichtblau, Maamed Mademilov, Aybremen Muratbekova, Ulan Sheraliev, Ainura Abdraeva, Nurdin H Marzhatapov, Talant M Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch, Michael Furian</td>
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<th>PA404</th>
<th>Effect of fast ascent, acclimatization and re-exposure to 5050m on cerebral autoregulation in lowlanders. A prospective cohort study.</th>
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<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>
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<th>PA405</th>
<th>Cardiopulmonary exercise testing as non-invasive tool for CTEPH treatment effect assessment</th>
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<td>Maria Simakova (St. Petersburg, Russian Federation), Irina Zlobina, Aelita Berezina, Konstantin Pishchulov, Narek Marykyan, Olga Moiseeva</td>
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<th>PA406</th>
<th>Effect of oxygen on blood pressure response to altitude exposure in COPD</th>
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<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>
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Effects of oxygen supplementation in autonomic nervous system function during exercise in patients with idiopathic pulmonary fibrosis and exertional desaturation
Afroditi Boutou (Thessaloniki, Greece), Konstantina Dipla, Katerina Markopoulou, Georgia Pitsiou, Stavros Papadopoulos, Stella Kritikou, Diamantis Chloros, Ioannis Klioumis, Ioannis Stanopoulos, Andreas Zafeiridis

Comparative response to incremental cardiopulmonary exercise testing in patients with uni- and bilateral diaphragm dysfunction
Gao Sheng Huang (Montreal, Canada), Bruno-Pierre Dubé

Skeletal muscle afferent sensitivity in Interstitial Lung Disease-interim analysis of a randomized cross-over study
Charlotte Chen (Auckland, New Zealand), John Kolbe, Julian Paton, Margaret Wilsher, Sally De Boer, James Fisher

Tobacco smoking in asthma patients with exercise-induced bronchoconstriction is associated with greater desaturation during dosed exercise
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Nakhamchen, Anna G. Prikhodko

Checking true VO2max values by supramaximal exercise testing: physiological insights
Maria Cecília 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

Beta-adrenergic blockade effects on aerobic capacity and chronotropic response
Kevin Forton (Bruxelles, Belgium), Michel Lamotte, Alexis Gillet, Vitalie Faoro

Air travel in chronic lung disease: can clinical variables predict response to the hypoxic challenge test?
Marie-Camille Soucy-Giguere (Montreal, Canada), Bruno-Pierre Dubé

Patients’ opinions of remote exercise capacity testing in pulmonary hypertension
Harrison Stubbs (Glasgow, United Kingdom), Martin Johnson

Entropy generation changes during exercising comparing lungs of male and female subjects
Jale Çağat (Istanbul, Turkey), Elif Develt, Serkan Bayram

Effects of exercise training on functional performance in fibrosing interstitial lung diseases
Hatem Essam Hamed Rizq (Alexandria, Egypt), Gihan Younis, Hanaa Shafiek, Enas Elsayed, Nashwa Hassan Abdel Wahab

The heart rate variability analysis during a virtual reality exercise test
Sebastian Rutkowski (Opole, Poland), Patryk Szary, Jerzy Sacha, Richard Casaburi

Nocturnal cerebral oxygenation in patients with COPD at altitude - effect of acetazolamide
Michael Furian (Zürich, Switzerland), Yaël Anne Schmuziger, Maamed Mademilov, Aline Buergin, Philipp M Scheiwiller, Laura Mayer, Simon R Schneider, Mona Lichtblau, Konstantinos Bitsos, Lara Muralt, Alexandra Groth, Ulan Sheraliev, Nuriddin H Marazhayrov, Azamat Akylbekov, Gulizada Mirzalieva, Alena Oleinik, Talant M Sooronbaev, Silvia Ulrich, Konrad E Bloch

Effect of exercise training on cerebral oxygenation and affects during exercise in obesity
Mathieu Marillier (Echirolles, France), Anna Borowik, Samarmar Chacaroun, Sébastien Baillieu, Stéphane Doutreleau, Michel Guinot, Bernard Wuyam, Renaud Tamisier, Jean-Louis Pépin, François Estève, Samuel Vergés, Damien Tessier, Patrice Flore

Laryngoscopy can guide inspiratory muscle training (IMT) in exercise induced laryngeal obstruction (EILO).
Petrine Solli Veirod (Bergen, Norway), Haakon Kvidalund, Praveen Muralitharan, Petter Carlsen, Maria Vollseter, Tiina Andersen, Sigurj Hjelle, Thomas Halvorsen, Ola Oranje, Hege Clemm

The impact of Beta Blockade on cardio-respiratory system and symptoms during exercise
Eldar Priel (Dundas, Canada), Imran Satia, Kieran J. Killian

Late Breaking Abstract - Spatial response to small and large particle bronchodilator in subjects with asthma
Claire O'Sullivan (Birmingham (West Midlands), United Kingdom), Kris Nilsen, Kim Prisk, Andreas Voskrebzenz, Jens Vogel-Clausen, Bruce Thompson
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)

PA423 Mathematical Analysis of Relationships Between Airflows and Intrapleural Pressures After Video-Assisted Lobectomies
Luca Bertolaccini (Milan, Italy), Nicola Rotolo, Andrea Imperatori, Angelo Morelli, Marco Chiappetta, Stefano Margaritora, Marcello Carlo Ambrogi, Marco Lucchi, Diego Gavezzoli, Mauro Benvenuti, Gino Zaccagna, Lorenzo Spaggiari, Roberto Crisi

PA424 Impact on survival of station 9 and necessity of inferior pulmonary ligament dissection in upper lobectomy for lung cancer
Serkan Yazgan (Izmir, Turkey), Ahmet Ucvet, Yunus Turk, Soner Gursoy

PA425 Morphological changes in cicatrical stenosis of the trachea. The effect of long-term endoprosthesis on the epithelium.
Rustem Hayaliev (Tashkent, Uzbekistan), Iskander Baybekov, Otabek Eshonkhodjaev, Shuhrat Khudaybergenov

PA426 Tracheal stenosis. One region experience
Igor Motus (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Nadezhda Giss, Igor Medvinsky, Olga Konstantinova

PA427 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
Irina Orlova (Minsk, Belarus)

PA428 The role of halogenated inhalation anesthetics in the organization of gas exchange function of the lungs in thoracic surgery.
Dmitry Kabakov (Moscow, Russian Federation), Margarita Vyzhigina, Dmitry Bazarov, Andrey Zaytsev, Alexey Kavochkin, Svetlana Zhukova

PA429 Lung herniation as a complication of minimally thoracic surgery

Dimitris Lioupas (Athens, Greece), Ioannis Stamatakos, Georgios Anagostopoulos, Fragkiskos Tsagkarakis, Dimitrios Xekalakis, Antonis Katsadonis, Thrasyvoulos Michos, Kostantinos Bouboulis, Nikolaos Elleuthouulis, Nikolaos Tzatzadakis

PA431 Ventilation disorders by impulse oscillometry in pulmonary tuberculosis patients in early post-operative period
Larisa Kiryukhina (St. Petersburg, Russian Federation), Olga Volodich, Nina Denisova, Nataliia Nefedova, Elena Korokina, Armin Avetisyan, Grigoriy Kudryashov, Piotr Yablonski

PA432 Management of pulmonary sequestration in adults; report of 27 cases
Imen Bouassida (Ariana, Tunisia), Mariem Hadj Dahmane, Wifek Saidani, Mouna Bousnine, Bechir Ben Rathia, Amira Dridi, Mahdi Abdennadher, Sarra Zaïri, Hazemi Zribi, Adel Marghli

PA433 Management of simultaneous bilateral pneumothorax
Imen Bouassida (Ariana, Tunisia), Wifek Saidani, Hadj Dahmane Mariem, Sarra Zaïri, Mahdi Abdennadher, Elyes Khlas, Amira Dridi, Aida Ayedi, Adel Marghli

PA434 VATS or sternotomy in mediastinal tumours? Time for crashworthiness
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou

PA435 Google Trend Data Analysis of COVID-19 Repercussion on Lung Cancer Awareness in Italy
Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Lorenzo Spaggiari

PA436 Spontaneous pneumothorax as a complication of COVID-19 pneumonia – self-experience study
Ivan Novakov (Plovdiv, Bulgaria), Filip Shterev, Plamena Novakova

PA437 Pneummediastinum as a complication of COVID-19 pneumonia – self-experience study
Ivan Novakov (Plovdiv, Bulgaria), Filip Shterev, Silviya Novakova

PA438 Pleural complications and chest tube follow-up in patients with COVID-19
Güntüğ Batihan (Izmir, Turkey), Kenan Can Ceylan, Serkan Yazgan, Soner Gürsoy, Sami Cenk Kirakli, Sena Ataman
The choice of priming solution for cardiopulmonary bypass during pulmonary endarterectomy for CTEPH patients has important impact

Katarzyna Furrer (Zürich, Switzerland), Dominique Bettez, Thomas Horisberger, Ilhan Inci, Oliver Schmid, Naveen Gaddehosur Nagaraj, Hoang-Thi Morselli, Bianca Battiliana, Reto Schuepbach, Silvia Ulrich, Monika Hebeisen, Alessandra Matter, Isabelle Opitz

LSC - 2021 - Reversible fetal tracheal occlusion in mice: a novel transuterine method

Nilhan Torlak (İstanbul, Turkey), Alkim Yıldırım (ayildirim17@ku.edu.tr / Pediatric Surgery, School of Medicine, Koç University,İstanbul), Egemen Eroğlu (eeroğlu@ku.edu.tr / Pediatric Surgery, School of Medicine, Koç University,İstanbul), Emrah Aydin (dremrahaydin@yahoo.com / Koç University Translational Medicine Research Center, Koç University,İstanbul)

Pre-congress content

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 Toumpanakis (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 Ovchinnikov, Christopher Galazis, Berik Emiloł, Mustafa Karaıragımov, Meder Seitov, Igor Goryanın

PA442

Local incidence and outcomes of patients with pneumothorax and pneumomediaistinum 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. Abuldinov, 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 P 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), Nawaïd Ahmad, Emma Crawford, Devapriya Dev, Annabel Makan, Kootalai Srinivasan, Harmesh Moudgil

PA449

Diagnostic value of high fever to predict polymerase chain reaction (PCR) status in patients with Novel Coronavirus (COVID-19) pneumonia

Emel Cireli (İzmir, Turkey), Aydan Mertoğlu, Günseli Balcı, Aylin Bayram, Nil Kuranoğlu, Ali Kadri Çırak, Özlem Ediboğlu, Gülşu 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 Laurentis, Alessandro Maria Marra, Alessandra Pistone, Noemi Grassi
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

Late Breaking Abstract - Acute multi-organ symptoms predict long COVID

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

Effectiveness of corticosteroids on HRCT features of COVID 19 pneumonia
Cecilia Calabrese (Napoli (NA), Italy), Cecilia Calabrese, Anna Annunziata, Mariano Mollica, Pasquale Imitazione, Maurizia Lanza, Giorgio Polistina, Martina Flora, Salvatore Guarino, Cristiana Palumbo, Pia Clara Pafundi, Giuseppe Fiorentino

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

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, Kootalai 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 Wälshcer (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, Pierrasnte 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 Richelli (Roma, Italy), Vincent Cottin, Lutfu 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, Micahel Henry
Safety and effectiveness of mycophenolate mofetil in interstitial lung diseases

Long-term tolerability of real-life use of antifibrotic agents (AFA) in Idiopathic Pulmonary Fibrosis (IPF)
Danielle Streis (Grimbergen, Belgium), Benjamin Bondue, Caroline Dahlqvist, Hans Slabbynck, Julien Guiot, Guy Joos, Nатаcha Gusbın, Gil Wirz, Antoine Froidure, Wim Wuyts

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

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 Thilii

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

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

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, Yuyung 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 Bendstrup, 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 Huizen (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 Vaskova (Praha 4, Czech Republic), Martina Stercloska, Nesrin Muğlkoç, Katerzyna Lewandowska, Veronika Müller, Marta Hajkova, Jasna Tekavec-Trkanjec, Michael Studnicka, Dragana Jovanovic, Natalia Stoeva, Klaus-Uwe Kirchgässler, Simona Litternerova, 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

Chairs: Claudia Valenzuela (Madrid, Spain), Letizia Traversi (Cittiglio, Italy)

PA479  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, Rasha Ibrahim, Antoine Kik, Richard Haouchan, Nabil Nassim, Karim Hoyek, Georges Khayat, Fadi Haddad, Ghassan Sleilaty, Moussa Riachy

PA480  Late Breaking Abstract - Prone-Positioning in Awake, Non-Intubated Patients with COVID-19 Hypoxemic Failure: A Single-Center Trial
Dzufar Abdul Halim (Dublin 9, Ireland), Khalid Elkholy, Aaron Duncan, Imran Sulaiman

PA481  Late Breaking Abstract - Resolution of radiological changes on follow up chest x-ray at 6 to 12 weeks post Covid pneumonia in a UK district general hospital
Asad Anwar (Guildford, United Kingdom), Euan Tubman, William Mclean, Mark Ingram, Jessica Scott-Taggart, Clare Alexander

PA482  Late Breaking Abstract - Recovering after COVID-19: 10-month follow-up data from a multidisciplinary outpatient clinic
Esther van Voorthuizen (Grosbeek, Netherlands), Jeannette Peters, Jan Vercoulen, Michel Van Den Heuvel, Hanneke Van Helvoort, Jeroen Van Hees, Bram Van Den Borst

PA483  Late Breaking Abstract - Fatigue, psychological and cognitive outcomes up to 12 months after hospitalization for COVID-19

PA484  Late Breaking Abstract - Physical recovery and persistent fatigue up to 12 months after hospitalization for COVID-19

PA485  Late Breaking Abstract - Tocilizumab administration for the treatment of hospitalised patients with COVID-19: A systematic review and meta-analysis
Chris Kyriakopoulos (Ioannina, Greece), Georgios Ntritsos, Athena Gogali, Charalampos Milionis, Evangelos Evangelou, Konstantinos Kostikas

Vishal Amrish Agrawal (Liverpool, United Kingdom), Amogh Ravi, Andrew Prior, Jaclyn Proctor, Amir Hussain Baluwala

PA487  Late Breaking Abstract - Early follow-up of hospitalised and non-hospitalised patients with Covid-19 in a Swedish setting
Judith Bruchfeld (Solna, Sweden), Mikael Björnson, Daniel Loewenstein, Malin Nygren Bonnier, Magnus Sköld, Michael Runold

PA488  Late Breaking Abstract - Clinical, functional and radiological outcomes up to 12 months following COVID-19.
Yannick Vande Weygaerde (Gent, Belgium), Eveline Claey, Bhavika Salhi, Lies Glore, Cedric Bosteels, Walter De Wever, Nicolas De Vos, Laurent Godinas, Eric Derom, Greet Hermans, Pieter Depuydt, Wim Janssens, Eva Van Braeckel, Natalie Lorent

PA489  RCT Abstract - Ad26.COV2.S immunogenicity in a Phase 2 trial at different booster dose levels and schedule intervals in adults
Vicky Cárdenas (Spring House, United States of America), Mathieu Le Gars, Jerald Sadoff, Javier Ruiz Guinazú, Nathalie Vaissière, Carla Truyers, Gert Scheper, Frank Struyf, Jenny Hendriks, Hanneke Schuitemaker, Macaya Douoguih

PA490  RCT Abstract - Ad26.COV2.S induces SARS-CoV-2 spike protein-specific cellular immunity and humoral immune responses that cover variants of concern
Mathieu Le Gars (Leiden, Netherlands), Jerald Sadoff, Georigo Shukarev, Dirk Heerwegh, Carla Truyers, Gert Scheper, Jenny Hendriks, M. Juliana Mcclrath, Stephen De Rosa, Kristen Cohen, Macaya Douoguih, Frank Struyf, Hanneke Schuitemaker
**Pre-congress content**

**Session 94**  
13:15 - 14:15

**E-poster: Pulmonary embolism in non-COVID-19 and COVID-19 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):** 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 Embolism 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 embolism and COVID-19: an increased risk for all?
Kate McLaren (Edinburgh, United Kingdom), James Tierman, Marc Pass, Anna Lithgow, Ananda Mirchandani, Vicky Tilliridou, Julia Anderson, Andrew Page, John March, Rebecca Dickinson

**PA495**  
VTE in COVID-19 inpatients not receiving higher level care
Michael Carling (Newcastle, United Kingdom), Ávinash Aujayeb

**PA496**  
Elevated D-dimer and low ferritin may help predict pulmonary emboli in mild-moderate COVID-19
Sharena Ratnakumar (London, United Kingdom), Poppy Denniston, Michael Elliott, Darshana Nair, Alex West, Szeman Mak

**PA497**  
Pulmonary embolism and COVID-19: a “special phenotype”?  
Javier Poyo Molina (Mutilva, Spain), José Luis Lobo Beristain, Javier Poyo Molina, Sara Beltrán De Otálora García, Sophie 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

**PA498**  
Features of patients newly diagnosed pulmonary embolism during COVID pneumonia
Aysun Şengül (Kocaeli, Turkey), Yusuf Aydemir, Derya Ozyaydn, Pınar Akın Kabalak, Yasemin Söyler, Hüsnü Baykal, Muzaffer Onur Turan, Ersin Alkınlımuş, Fünsen Bozküş, Pınar Yıldız Gülhan, Celal Satıcı, Sertaç Arslan, Mustafa Asım Demirkol, Nevin Fazılözgü, Aylin Capraz, Pınar Mulu

**PA499**  
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

**PA500**  
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

**PA501**  
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, Maricela 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

**PA502**  
Covid-19 and pulmonary embolism: a heterogeneous association
Khalil Bahri (Tunis, Tunisia), Samira Mhamdi, Selsabil Daboussi, Asma Riahi, Benha Yousfi, Islem Mejri, Chiraz Aichaoua, Ziad Moatamiri, Mohnes Khadhraoui

**PA503**  
Predictors and prognostic factors in a large Pulmonary embolism series
Shona Christopher (Vellore, India), Richa Gupta, Barney Isaac, Devasahayam J Christopher

**PA504**  
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 Gkrep, Konstantinos Kostikas

**PA505**  
Should cancer be removed from sPESI score?
Mustafa Bugra Coskuner (Trabzon, Turkey), Yılmaz Bülbül, Funda Özguna, Teyfik Ozu
PA506  10 year retrospective audit from Ambulatory Pulmonary embolism pathway in a tertiary hospital
Rajini Sudhir (Leicester (Leicestershire), United Kingdom), Elaine Bailie, Nisha Parmar

PA507  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, Zofirah Isiaka, Muhammad Ganai

PA508  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

PA509  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

PA510  Comparison of acute phase reactant pentraksin-3 and inflammatory parameters in acute and stable pulmonary embolism
Asiye Büsra Çimen (istanbul, Turkey), Ayşe Füsun Kalpakلوح

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

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, Khouloud Kchaou, Saloua Jameleddine

PA513  IL-21: A Potential Biomarker For Diagnosis and Predicting Prognosis in COVID-19 Patients
Nilauer Aylın Acet Ozturk (Bursa, Turkey), Nilauer Aylın Acet Ozturk, Ahmet Urasasv, Asli Gorek Dilektaşlı, Ezgi Demirdüşen, Funda Coşkun, Dane Ediger, Ersin Uzuslan, Dilem Yonen-Emin, Merh Kacara, Orkun Terzi, Merve Bayram, Dilara Ömer, Büşra Yiğitliler, Ahmet Yurttaş, Shahriyar Maharramov, Gamze Çelik, Barbaros Oral, Mehmet Kardağağ

PA514  The best predictor of COVID-19 pneumonia progression during lung ultrasound (LUS)
Elli Keramida (Athens, Greece), Eleni Bellou, Irma Bracka, Christina Gkriouk, Spyridon Mazarakis, Theodoros Daskalos, Andreas Paraskevas, Ioannis Karapetis, Panagiotis Demertzis, Georgia Hardavella

PA515  Pneumonia severity assessment scores in COVID19 pneumonia; clinical validation in a pragmatic healthcare setting
Ksenia Bielosludtseva (Dnipropetrovsk, Ukraine), Karina Fugol, Mariia Krykhntina, Oksana Popova

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)
Thodoros Daskalos, Andreas Paraskevas, Ioannis Karapetis, Panagiotis Demertzis, Georgia Hardavella

PA517  Fibrinogen like the predictor of COVID-19 pneumonia progression
Daria Koval, Tetyana Pertseva, Lyudmila Konopkina, Ksenia Bielosludyseva

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 (Shanghi, China), Yun Feng, Lei Han, Yan Zhou, Yong Ji, Huijuan Hao, Yishu Xue, Dongming Yin, Zengchao Xu, Shan Luo, Pengyu Zhang, Min Zhang
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<td>Anosmia and ageusia good prognosis factors of COVID-19?</td>
<td>arbia chaieb (Tunis, Tunisia), Sarra Maazaoui, Sonia Habibech, Tasnim Zneigui, Mariem Friha, Slim Ghdira, Neder Mefteh, Hajer Racil, Nawel Chaouch</td>
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<td>PA521</td>
<td>Impact of the COVID-19 pandemic on Influenza virus transmission</td>
<td>Sara Braga (Braga, Portugal), Marcos Oliveira, José Manuel Silva, Luís Ferreira</td>
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<td>PA522</td>
<td>Willingness for vaccination against COVID-19 in health care workers in Greece</td>
<td>Garriffa eirini Perlefe (Larissa, Greece), Dimitrios Papagiannis, George Rachiotis, Foteini Malli, Ioanna V Papathanasiou, Evangelos C Fradelos, Zoe Danil, Konstantinos I Gourgoulianis</td>
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<td>PA523</td>
<td>The use of pharmacological therapies in hospitalized COVID-19 patients— A literature review</td>
<td>Eileen Han (Collegeville, United States of America), Ember Lu, Anne Heyes, Josephine Mauskopf, Helen Birch, Marguerite Bracher</td>
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<td>PA524</td>
<td>Correlation between nasal inflammation and COVID-19 related pneumonia evaluated by nasal cytology.</td>
<td>Carla Santomasi (Bari, Italy), Andrea Portacci, Federica Barratta, Paola Pierucci, Silvano Dragonieri, Matteo Gelardi, Onofrio Resta, Giovanna Elisianna Carpagnano</td>
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<td>PA525</td>
<td>Could KL-6 levels in COVID-19 help to predict lung disease ?</td>
<td>Anne-Noëlle Frix (Liege, Belgium), Lauranne Schoneveld, Aurélie Ladang, Monique Henket, Bernard Duysinx, Frédérique Vaillant, Benoit Misset, Michel Moutschen, Renaud Louis, Étienne Cavalier, Julien Guiot</td>
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<td>PA526</td>
<td>Factors associated with poor glycemic control in patients hospitalised for COVID-19</td>
<td>Stefan-Marian Frent (Timisoara, Romania), Emanuel Bobu, Roxana Pleava, Costela Serban, Iosif Marincu, Virgil Musta, Stefan Mihaicuta, Ovidiu Fira-Mladinescu, Diana Manolescu, Cristian Oancea</td>
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<td>PA527</td>
<td>COVID-19 Re-infection of Healthcare Workers, A Single Centre Study</td>
<td>Maside Arı (Ankara, Turkey), Kerem Ensarioğlu, Serap Duru, Bahar Kurt, İrfan Şencan, Esengül Şendağ</td>
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<td>PA528</td>
<td>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.</td>
<td>Sophia V. Nesterovich (Tomsk, Russian Federation), Darya Vinokurova, Sergey Fedosenko, Evgeny Kulikov, Nikolay Yarovoy, Vyacheslav Korepanov, Margarita Boldyhevskaya, Sergey Khalyavin, Ekaterina Selikhova</td>
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<td>PA529</td>
<td>Differences and characteristics of COVID-19 and atypical pneumonia</td>
<td>Muzaffer Onur Turan (Izmir, Turkey), Sebnem Karasu, Atilla Hikmet Cilengir, Bunyamin Sertogullarindan</td>
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**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)

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<th>ID</th>
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<td>The value of a pleural fellowship post</td>
<td>Lewis Standing (Whitley Bay, United Kingdom), Karl Jackson, Ben Teng, Avinash Aujayeb</td>
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<td>PA531</td>
<td>Comparison of physicians’ and medical students' knowledge of bronchial asthma according to the final results of the ASSA-II study</td>
<td>Roman Bontsevitch (Belgorod, Russian Federation), Galina Batisheva, Galina Prozorova, Irina Krotkova, Galina Ketova, Olena Myronenko, Elena Luchinina, Irina Galkina, Olga Kompaniets, Maxim Maximov, Guzel Bikkinina</td>
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<td>PA532</td>
<td>Interest regarding CDC-specified risk factors of severe COVID-19: a Google Trends analysis</td>
<td>Miguel Trigueiro Rocha Barbosa (Viana do Castelo, Portugal), Cláudia Sabina, Rita Aguilar, Mário Morais-Almeida</td>
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<td>PA533</td>
<td>Is workplace-based assessment (WBA) worthwhile?</td>
<td>Robert Primhak (Sheffield (South Yorkshire), United Kingdom)</td>
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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, Elizavetab Ebzeeva, Valerya Barysheva, Olga Kompaniets, Olena Myronenko, Irina Martynenko, Tatiana Shagieva

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

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 Luchinina, Vera Nevzorova

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

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

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

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
Ni cola 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.
Lígia Roceto Ratti (Valinhos, Brazil), Ana Lúcia Cavallaro B. Lima, Lais Bacchin De Oliveira, Bruna Scharlock Vian, Evelyn Regina Couto, Luciana Castilho De Figueiredo, Aline Maria Heidemann, Mônica Corso Pereira

Impact of COVID-19 on Tunisian pulmonology trainees
Hana Blibech (Ariana, Tunisia), Donia Belkhir, Houda Snene, Aymen Jebali, Mariem Maalej, Nadia Mehiri, Nozha Ben Salah, 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), Chair to be confirmed

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

Indacaterol acetate, glycopyrronium bromide, and mometasone furoate: effect on human airway inflammation
Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Francesco Faccioli, Ivan Nikolaev, Luigino Calzetta
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<th>Effect of cigarette smoke extract and Th17 cytokine on production of inflammatory cytokines and chemokines in human airway smooth muscle cells</th>
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<td>Abdulrahman Alghamdi (Nottingham, United Kingdom), Abdullah Alqarni, Mushabbab Alahmari, Rochelle Edwards-Pritchard, Amanda Tatler, Lihhua Pang</td>
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<th>PA548</th>
<th>Calcaratarin D attenuates house dust mite-induced allergic asthma</th>
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<td>Wupeng Liao (Singapore, Singapore), Yu Ci Hazel Foo, Wai Shiu Fred Wong</td>
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<th>PA549</th>
<th>The pan janus kinase (JAK) inhibitor KN-002 suppresses inflammatory mediator release from severe asthma bronchial epithelial cells.</th>
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<td>Ian M. Adcock (London, United Kingdom), Mark Main, Alan Rothaul, Coen Wiegman, Frazer Morgan</td>
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<th>PA550</th>
<th>Rosuvastatin reduced cytokine production and lung inflammation in asthmatic, hyperlipidemic and asthmatic-hyperlipidemic rat models</th>
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<td></td>
<td>Mohammad Hossein Boskabady ( Mashhad, Islamic Republic of Iran), Saeideh Saadat</td>
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<th>PA551</th>
<th>Indacaterol acetate, glycopyrronium bromide, and mometasone furoate: effect on neuronal inflammation and acetylcholine release</th>
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<td>Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Francesco Facciolo, Maria Gabriella Matera, Ivan Nikolaev, Luigino Calzetta</td>
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<th>PA552</th>
<th>Corticosteroid effects on airway neuroplasticity in experimental models of asthma</th>
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<td>Siti Farah Rahmawati ( Groningen, Netherlands), Pien Goldsteen, Sophie Bos, Huib Kerstjens, Amalia Dolga, Loes Kistemaker, Reinoud Gosens</td>
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<th>PA553</th>
<th>Crucial role of fatty acid oxidation in asthmatic bronchial smooth muscle remodeling</th>
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<td>Pauline Esteves (PESSAC, France), Landry Blanc, Alexis Celle, Isabelle Dupin, Elise Maurat, Nivea Amoedo, Guillaume Cardouat, Olga Ousova, Lara Gales, Florian Bellvert, Hugues Begueret, Matthieu Thumerel, Pierre-Olivier Girodet, Rodrigue Rossignol, Patrick Berger, Thomas Trian</td>
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<th>PA554</th>
<th>Effect of intravenous alpha-1-antitrypsin augmentation therapy on proteinase-3-generated AaVal541 in deficient patients</th>
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<td></td>
<td>Iris G. M. Schouten (Leiden (ZH), Netherlands), Abraham C. Van Der Linden, Pieter S. Hiemstra, Richard A. Mumford, Jan Stolk</td>
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<th>PA555</th>
<th>Adding glycopyrronium to beclomethasone/formoterol combination: synergistic effect on human small airways of COPD donors</th>
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<td>Luigino Calzetta (Roma (RM), Italy), Josuel Ora, Andrea Girolami, Immacolata Rossi, Ilaria De Guido, Francesco Facciolo, Mario Cazzola, Paola Rogliani</td>
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<th>PA556</th>
<th>C-reactive protein and the type IV collagen measurement in severe COPD: Value of roflumilast</th>
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<td>Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovskaya, Oleksandr Varunkiv, Galyna Korzh, Mariana Kulychnyk-Miskiv, Kostiantyn Shvets, Nadiia Korzh</td>
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<th>PA557</th>
<th>Acupuncture regulates macrophage polarization in COPD mice model by activating dopamine D2 receptor.</th>
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<td>Tao Fan (Chengdu (Sichuan), China), Xue-Mei Liu, Yu Zhang, Yan Lv, Bing Mao</td>
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<tr>
<th>PA558</th>
<th>Effect of roflumilast on cytokines levels in patients with Chronic Obstructive Pulmonary Disease</th>
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<td>Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovskaya, Oleksandr Varunkiv, Mariana Kulychnyk-Miskiv, Galyna Korzh, Kostiantyn Shvets, Nadiia Korzh</td>
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<tr>
<th>PA559</th>
<th>Late Breaking Abstract - Life cycle assessment (LCA) and cradle-to-grave carbon footprint of a multidose reservoir dry powder inhaler product family</th>
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<td>Ville Vartiainen (Espoo, Finland), Aino Takala, Jussi Haikarainen, Grace Parker, Tari Haaheta</td>
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<th>PA560</th>
<th>Late Breaking Abstract - Pneumonia risk in COPD patients initiating extrafine Fixed Dose Combination (FDC) with beclometasone dipropionate (et-FDC-BDP) versus long-acting bronchodilators (LABD)</th>
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<td></td>
<td>David Price (Singapore, Singapore), William Henley, Victoria Carter, Derek Skinner, Rebecca Vella, Alberto Papi, Leonardo M Fabbr, Huib Am Kerstjens, Nicolas Roche, Dave Singh, Clas F Vogelmeier, Elif Şen, Jose Eduardo Delfini Cançado, Elena Nudo, Sara Barile, George Georges</td>
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<th>PA561</th>
<th>Late Breaking Abstract - Real world patient-reported outcomes in asthma across six European countries: the NEWTON study</th>
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<td>Fulvio Braidio (Genova (GE), Italy), Kai-Michael Beeh, Sara Barile, Carolina Cisneros, Luca Cavaliari, Anh Tuan Dinh-Xuan, Eleonora Inggrassia, Alessio Piraino, Lilla Tamási, Yasemin Unal, Ruxandra Ulmeanu</td>
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<th>PA562</th>
<th>Late Breaking Abstract - Efficacy and safety of eliapixant in refractory chronic cough: Results of the PAGANINI 12-week, randomized, placebo-controlled Phase 2b study</th>
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<td>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 Wosnitzki, Peter Diepinigaitis</td>
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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 Bonniaud, François-Xavier Blanc, Gilles Devouassoux, Stéphanie Fry, Cécilia Nocent-Ejnaini, Joëlle Courdeau-Labourie, Carmen Iamanadi, Alain Proust, Jean-Marc Dot, Etienne Auvray, Fabien Rolland, Stéphanie Martinez, Florence Hennegave, Laurent Portel, Pauline Roux, Jean Miltgen, Maud Russier, 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 (Düsseldorf, Germany)

Life-threatening cause of stridor and respiratory distress in a young infant.
Anna Wiemers (Düsseldorf, Germany), Anna Hoffmann

Clinical spectrum of children with interstitial pneumonia with autoimmune features: a new definition in childhood interstitial lung diseases
Dilber Ademhan Tural (Ankara, Turkey), Nagehan Emiralioglu, Beste Ozsezen, Birce Sunman, Halime Nayir Buyukshahin, Ismail Guzelkbas, Berna Oguz, Yelda Bilginer, Diclehan Orhan, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Seza Ozen, Nural Kiper

Diagnostic significance of TGF-B1 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 Tschediel, 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 (Chişinău, Republic of Moldova), Victor Rascov, Svetlana Sciucu, Rodica Selevestru

Lower airway malacia in children: retrospective study in a tertiary paediatric hospital
Fazilecan Zirek (Ankara, Turkey), Gizem Özcan, Merve Nur Tekin, 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), Eylul Pinar Cakir, Pelin Asfuroglu, Tugba Ramasi Gursoy, Tugba Sismanlar Eyuboglu, Merve Yazol, Oznur Boyunaga

Children with congenital lung malformation in terms of age of diagnosis
Tugba Ramasi Gursoy (ANKARA, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Ramazan Karabulut, Irfan Tastiepe
Anxiety of children with primary ciliary dyskinesia and their mothers during COVID-19 pandemic
Pelin Asfuroglu (Ankara, Turkey), Tuğba Sismanlar Eyuboglu, Ayse Tana Aslan, Tuğba Ramasli Gursoy, Azime Sebnem Soysal Acar, Dilek Yapar, Mustafa Necmi Ilhan

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

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

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

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

Genotype-phenotype correlation in a group of patients with primary ciliary dyskinesia in Italy.
Laura Petraca (Roma (RM), Italy), Giuseppe Cinino, 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, Bjarne Vandervoort, Elke Huenaearts, 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 Roubenne, 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

In vitro effects of vasodilatory drugs on BMPR2-silenced pulmonary microvascular endothelial cell function
Rozenn Quarc (Leuven, Belgium), Birger Tielmans, Allard Wagenaar, Catharina Belge, Marion Delcroix

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 Halk, Satenik Harutyunova, Marius Hoelper, Danny Jonigk, Marc Schneider, Hans-Jürgen Seyfarth, Sarah Richtmann, Panagiota Xanthoulis, Martina Muckenthaler, Christina Eichstaedt

18-FDG uptake on PET-CT and metabolism in pulmonary arterial hypertension.
Jefferson Osorio Trujillo (Barcelona, Spain), Olga Tura-Clève, Javier Pavia, Ivan Vollmer, Isabel Blanco, Valerie Smolders, Aida Ninerola, Pilar Paredes, Jesús Ruiz-Cabello, Manel Castellà, Yolanda Torralba, Laura Sebastián, Lucilla Piccari, Victor Peinado, Daniel Aguilera, Joan Albert Barberá
LSC - 2021 - Direct effects of cigarette smoke in pulmonary arterial cells: Implications in arterial remodeling and vascular tone maintenance
Sevilla-Montero Javier, Jesus Pino (francisco.pino@estudiante.uam.es / Universidad Autonoma of Madrid,Madrid), David Labrousse-Arias (davidlabroussearias@gmail.com / Universidad Autonoma of Madrid,Madrid), Cintia Fernández-Pérez (Cintia.fernandez@uam.es / Universidad Autonoma of Madrid,Madrid), Laura, Fernández-Blanco (Laura.fernandezblanco@estudiante.uam.es / Universidad Autonoma of Madrid,Madrid), Bianca Barreira (biancabarreira@med.ucm.es / Universidad Complutense of Madrid,Madrid), Gema Mondéjar-Parreño (gemondej@ucm.es / Universidad Complutense of Madrid,Madrid), Elvira Alfaro-Arnedo (ealfaro@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 (GPece@fjd.es / Biomedical Research Unit IIS-FJD,Madrid), José G. Pichel (jpichel@riojasalud.es / Centro de Investigación Biomédica de La Rioja,Logroño), Víctor Ivo Peinado (vipeinado@clinic.cat / Hospital Clinic-Institut d'Investigacions Biomèdiques August Pi i Sunyer,Barcelona), Ángel Cogolludo (acogolludo@med.ucm.es / Universidad Complutense of Madrid,Madrid), María Jose Calzada Garcia (calzadamj@yahoo.com / Universidad Autonoma of Madrid,Madrid).

PA589
Soluble guanylate cyclase stimulators revert in vitro cigarette smoke effects through JNK pathway normalization
Adelaida Bosacoma (Barcelona, Spain), Daniel Aguilar, Tanja Paul, Isabel Blanco, Olga Tura-Case, Joan Albert Barberà, Víctor Ivo Peinado

PA591
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, Seiichiro Sakao, Nobuhiro Tanabe, Kenji Mizuguchi, Jun Kunisawa, Koichiro Tatsun

PA592
Novel hypoxia system to assess endothelial dysfunction in chronic thromboembolic pulmonary hypertension (CTEPH)
Ylenia Roger (Barcelona, Spain), Isaac Almendros, Esther Marhuenda, Ana Ramirez, Víctor Ivo Peinado, Isabel Blanco, Manuel Castellà, Joan Albert Barberà, Olga Tura-Case

PA593
Differential expression of plasma microRNAs in chronic thromboembolic pulmonary hypertension and pulmonary embolism related to occult cancer
Júlia Oto (Valencia, Spain), Olga Tura-Case, Verónica Sánchez-López, Carme Font, Jeisson Osorio, Cristina Bonjoch, David Hervás, Elena Arellano, Pilar Medina, Isabel Blanco, Víctor Ivo Peinado, Joan Albert Barberà, Remedios Otero

PA594
Pentastatin, matrikine of the type IV collagen α5, 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, Margorarza Wygrecka, Grazyna Kwapiszewska

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
Memonova Shaukat (Heidelberg, Germany), Mareike Lankeit, Ding Cao, Nicola Benjamin, Ekkeh der Grünig, Christina Eichstaedt

PA597
Pulmonary vein banding-induced pulmonary venous congestion causes pulmonary hypertension in rats.
Jonas Muenks (Gießen, Germany), Baktylek Kojonazarov, Akylbek Sydykov, Norbert Weissmann, Ralph T Schermuly, Mario Boehm

PA598
Right ventricular function and lung perfusion in adaptive versus maladaptive experimental pulmonary hypertension
Baktylek Kojonazarov (Gießen, Germany), Werner Seege, 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 1b inhaled selatulitinib 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 Mccaffrey, Lawrence S. Zisman, Jean-Marie Bruey, 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)

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**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 Pekhchanova

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**PA604**

Pulmonary function and psychological burden 3 months after COVID-19

Guido Vagheggi (Volterra (PI), Italy), Francesca Marzetti, Lorenzo Bernardeschi, Mario Miniati, Giulia Boni Brivio, Eugenia Panaît, 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

**PA606**

Exercise capacity and health related quality of life in survivors of COVID-19 Pneumonia: A prospective cohort study

Jamaica Ross David (Quezon City, Philippines), Ma. Encarnita Blanco-Limpin, Bernice Ong-Dela Cruz

**PA607**

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 Szlejk, Etienne Duin, 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

**PA608**

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

**PA609**

Post-COVID and the BHRUT one-stop shop MDT approach to managing the longerterm sequale of a novel disease process.

Adam Ainley (London, United Kingdom), Pavan Kumar, Sofia Nyberg, Riyah Jiwan

**PA610**

Hyperbaric oxygenation (HBO) in the reabilitation of patients undergoing COVID-19

Ganna Mamenko (Sant-Petersburg, Russian Federation), Evgeniy Popov, Evgeniy Kononov, Alexander Sidorenko, Tamara Rubanik

**PA611**

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 Krykhtina

**PA612**

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 Trejo Mellado, Juan Carlos García Hernández, Maria Fernanda Salgado Fernández, Carlos Miguel Sánchez Moreno

**PA613**

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 Grattagliano, Luca Cavalieri, Alfio Pennisi, Gianluca Dainesi, Luigi Santoiemma

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 modelization in a mouse model of cervical spinal cord injury

Thibaut Courtillot (Paris, France), Florence Cayetanot, Laurence Bodineau, Isabelle Vivodtzev

A survey to Understand The Need for Rehabilitation Programme After an Episode of COVID-19.

Munyra 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

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)

Recurrent pregnancy loss and asthma: A nationwide study

Casper Tidemanden (Hvidovre, Denmark), Pia Egerup, Charlotte Suppli Ulrik, Vibeke Backer, David Westergaard, Anders Mikkelsen, Oyvind Lidegaard, Henriette Svarre Nielsen

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

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

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

Whispers of change in childhood asthma: findings in the French ELFE cohort

Sadia Khan (BORDEAUX Cedex, France), El Hassane Ouaalaya, Bénédicte Leynaert, Jacques De Blic, Christophe Marguet, Antoine Deschildre, Marie-Noëlle Dufour, Corinne Bois, Marie-Aline Charles, Marie Christine Delmas, Amandine Divaret Chauveau, Emeline Scherer, Steffi Rocchi, Gabriel Reboux, Laurence Millon, Chantal Raherison Semjen

Influence of farm environment on asthma during the life-course: a population-based birth cohort study in Northern Finland

Marko Kantomaa (Oulu, Finland), Mimmi Tolvainen, 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, Bryndis Benediktsdottir, Karl Franklin, Thorarin Gislason, Francisco Gómez Real, Mathias Holm, Christer Janson, Rain Jögi, Andran Low, Andrei Malinovschi, Jesus Moratalla, Anna Oudin, José Luis Sánchez Ramos, Vivi Schlünssen, Ceci
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<th>Session ID</th>
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<td>PA641</td>
<td>Ferritin versus D-dimer: comparison of prognostic roles in COVID-19 pneumonia</td>
<td>Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Olena Myronenko, Tetyana Pertseva, Lyudmila Konopkina, Oksana Pekhanova, Mariia Krykhtina</td>
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<tr>
<td>PA642</td>
<td>Blood fibrocytes are associated with severity and prognosis in COVID-19 pneumonia</td>
<td>Mada Ghanem (Paris, France), Meline Homps-Legrand, Lise Morer, Tiphaine Goletto, Justine Frija, Catherine Bancal, Margarita Hurtado-Nedelec, Madeleine Jailet, Arnaud Maillieux, Catherine Neukirch, Raphael Borie, Camille Taille, Bruno Crestani</td>
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<td>PA643</td>
<td>Pathophysiological parameters of microcirculation as determinants of mortality in SARS-CoV-2 pneumonia</td>
<td>Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Francesc Puchades Gimeno, Esther Verdejo Menguat, Vicente Abril López De Medrano, Sara Carrascosa García, José Ignacio Mateo González, Amparo Lluch Bisbal, Noelia Carrion Collado, Alfonso González Cruz, Miguel García Deltoro, Estrella Fernández Fabrellas</td>
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<td>PA644</td>
<td>Indicators of systemic inflammation in critically ill patients with COVID-19.</td>
<td>Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Yuriy Berezovskiy, Evgeniy Gretsov</td>
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<td>PA645</td>
<td>Indicators of hemostasis and fibrinolysis systems in critically ill patients with COVID-19.</td>
<td>Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Yuriy Berezovskiy, Evgeniy Gretsov</td>
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<td>PA646</td>
<td>Admission clinical parameters in predicting in-hospital mortality in COVID-19</td>
<td>Dalia Mudawi (Salford (Lancashire), United Kingdom), Ran Wang, Karl Heyes, Robert Niven, Nazia Chaudhuri</td>
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<td>PA647</td>
<td>Correlation of renal impairment with biochemical and radiological findings, and clinical outcome in COVID-19 pneumonia patients</td>
<td>IOANNA PAPADAKI (Athens, Greece), Dimitrios Papadopoulos, Georgia-Emmanouela Dendrinou, Theofani Tambakis, Vasileios Gkogkos, Stefanos Kanellas, Sofia-Evelia Myrotheou, Iadjet Dura, Maria Christodoulou, Thomas Triantafyllou, Kyriaki Zeibecoglou</td>
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<td>PA648</td>
<td>The Value of C-Reactive Protein-to-Lymphocyte Ratio in Predicting the Severity of SARS-CoV-2 Pneumonia</td>
<td>Catia Cilloniz Campos (Barcelona, Spain), Hector Peroni, Carles Domingo, Rebeca Muñoz, Josep Lluís Bedini, Alex Soriano, Antoni Torres</td>
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<td>PA649</td>
<td>The best coagulation marker for prediction of COVID-19 pneumonia progression.</td>
<td>Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Lyudmila Konopkina</td>
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<td>PA650</td>
<td>Association between creatine kinase level and mortality in high-risk patients with COVID-19</td>
<td>Michael Brovko (Moscow, Russian Federation), Aram Kibalian, Larisa Akulkina, Pavel Potapov, Alexey Moiseev, Anastasia Schepalina, Alexandra Yakovleva, Viktoria Sholomova, Sergey Moiseev</td>
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<td>PA651</td>
<td>Lymphocyte-to-monocyte ratio (LMR) as a predictor of Covid-19 pneumonia progression</td>
<td>Mariia Krykhtina (Dniepropetrovsk, Ukraine), Daria Koval, Tetyana Pertseva, Lyudmila Konopkina, Ksenia Bielosludtseva</td>
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<td>PA652</td>
<td>What is the best biomarker of COVID-19 pneumonia progression?</td>
<td>Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Tetiana Kirieieva, Bohdana Basina, Nataliia Krabchenko, Mariia Krykhtina</td>
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<td>PA653</td>
<td>Platelet-to-lymphocyte ratio (PLR) as a predictor of Covid-19 pneumonia progression</td>
<td>Mariia Krykhtina (Dniepropetrovsk, Ukraine), Daria Koval, Lyudmila Konopkina, Ksenia Bielosludtseva</td>
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<td>PA654</td>
<td>C-reactive protein (CRP) at admission: is it really usefull in COVID-19 pneumonia?</td>
<td>Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Tetiana Kirieieva, Mariia Krykhtina, Nataliia Krabchenko</td>
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<td>PA655</td>
<td>Serum KL-6 as a biomarker to assess risk of worse outcome in patients with SARS-CoV2 infection</td>
<td>Sivagurunathan Sutharsan (Essen, Germany), Marc Berger, Jitka Andrá, Lutz-Bernhard Jehn, Christian Taube, Thorsten Brenner, Simone Kattner, Andreas Limmer, Francesco Bonella</td>
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<td>PA656</td>
<td>ISTH Criteria for Disseminated Intravascular Coagulation (DIC) scale, Padua scale, D-dimer or Fibrinogen: what is the best predictor of COVID-19 pneumonia progression?</td>
<td>Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Lyudmila Konopkina</td>
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<td>PA657</td>
<td>Relation between inflammatory biomarkers and oxygen needs in severe COVID-19 patients</td>
<td>Samia Essebaa (Ariana, Tunisia), Selsabil Daboussi, Samira Mhamdi, Nouha Guediri, Islem Mejri, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui</td>
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ALEJANDRO REZOLA CARASUSAN (Donostia San Sebastian, Spain), Leyre Serrano Fernandez, Luis Alberto Ruiz Iturriaga, Edurne Echevarria Guerrero, Beatriz Gonzalez Quero, Joseba Andia Iturrate, Elena Garay Llorente, Jone Solorzano Santobeha, 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. Pepe, Georgia A. Giotopoulou, Marina Lianou, Ioanna Giopanou, Anne-Sophie Lamort, Georgios T. Stathopoulos

Differential expression analysis of lncRNA in different types of lung cancer
Macarena Arroyo Varela (Malaga, Spain), Lorena Aguillera Cobos, Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalez 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 (Munich, Germany), Sabine J. Behrend, Giannoula Ntaliarda, Anne-Sophie Lamort, Mario A.A. Pepe, Ioanmis Lillis, Magda Spella, Georgios T. Stathopoulos

Altered expression of long non-coding RNA in lung and blood during pulmonary exacerbation in cystic fibrosis
Zuzanna Stachowiak (Poznan, Poland), Beata Narożna , Wojciech Langwiński, Irena Wojsyk-Banaszak, Katarzyna Jończyk Potoczna, Anna Bręborowicz, Aleksandra Szczepankiewicz

Potential translation of plasma microRNA signatures in the risk stratification of COVID-19 patients admitted to the ICU

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 Bahuls (Valencia, Spain), Silvia Castillo , 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, Lília Andrade, Alda Marques, Gabriela Moura
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<td>PA671</td>
<td>Accelerated analysis of reactivation of the dormant Mycobacterium tuberculosis using mycobacteriophage D29.</td>
<td>Mikhail Vladimirsky (Moscow, Russian Federation), Marina LapenkoPar, Greta Arustamova, Igor Granovsky, Anna Makarova, Rafail Kuznitsyn</td>
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<td>PA672</td>
<td>A rejuvenation effect of the antifibrotic therapy correlates with lung function improvement in IPF patients</td>
<td>Sofia Pavanello (Padova, Italy), Manuela Campisi, Filippo Liviero, Davide Biondini, Elisabetta Balestro, Paolo Spagnolo</td>
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<td>PA673</td>
<td>Usefulness of GDF-15 as a biomarker of respiratory worsening in COVID-19 patients.</td>
<td>Anaïs Mariscal (Barcelona, Spain), Leticia Alserawen, Iván Castellvi, Esther Ortiz, Patricia Peñacoba, Teresa Franco-Leyva, José Luis Tandaipán, Laura Martínez-Martínez, Héctor Corominas, Pere Domingo, Cándido Juaréz, Diego Castilo</td>
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<td>PA674</td>
<td>Comparison of transcriptional differences between IL-4Ra and IL-5 blockade in a mouse model of asthma</td>
<td>George Scott (Tarrytown, United States of America), Jeanne Allinne, Seblewongel Asrat, Weikeat Lim, Kirsten Nagashima, Dylan Birchard, Subhashini Srivatsan, Dharani Ajithdoss, Adelekan Oyeyide, Li-Hong Ben, Johnathon Walls, Audrey Le Floc'H, George Yancopoulos, Andrew Murphy, Matthew Sleeman, Jamie Oreno</td>
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<td>PA675</td>
<td>The worldwide covid-19 genetic risk scenario</td>
<td>Rui Marçalo (Aveiro, Portugal), Sonya Neto, Miguel Pinheiro, Ana Rodrigues, Nuno Sousa, Manuel Santos, Paula Simão, Carla Valente, Lilía Andrade, Alda Marques, Gabriela Moura</td>
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<td>PA676</td>
<td>Saliva as a “patient-friendly” specimen for COPD assessment</td>
<td>Ana Sousa (Aveiro, Portugal), Ana Sousa, Sara Melo-Dias, Carla Valente, Lilía Andrade, Alda Marques</td>
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<td>PA677</td>
<td>Evolution of tetracycline resistant S. aureus in hypoxia</td>
<td>Rebecca Hull (Sheffield, United Kingdom), Simon Foster, Michael Brockhurst, Alison Condliffe</td>
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**Pre-congress content**

**Session 104: 13:15 - 14:15**

**E-poster: New insights into the airway immunology of 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 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

**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**

**Effect of allergen-activated eosinophils on contractility and migration of ASMC and PF in asthma**

Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Egle Jurkeviciute, Jolita Palacionyte, Airidas Rimkunas, Beatrice Tamasauskaite, Kestutis Malakauskas

**PA679**

**Increased cough, mucus and wheeze characterise COPD and Asthma in Australian Aboriginal adults**

Nick Young (Newcastle, Australia), Winnie Chen, Daniel Wong, Shimul Chatterjee, Aishath Lam’Aan Latheef, Jodie Simpson, Peter Wark, Alistair Cook

**PA680**

**T cell maturation profile in metastatic vs. non-metastatic lymph nodes in NSCLC patients**

Iwona Kwiecieñ (Warszawa, Poland), Elżbieta Rutkowska, Joanna Bednarek, Rafal Sokolski, Karina Jahnz-Różyk, Joanna Domagała-Kulawik, Piotr Rzepieccki

**PA681**

**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. Prihodko

**PA682**

**Profilng of COPD and IPF cytokine responses in human lung**

Dhruva Thakker (Nottingham, United Kingdom), Amanda Henry, Charlotte K. Billington, Binaya Kc, Tracy Rimington, Ian Sayers, Ian Hall

**PA683**

**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

**PA684**

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

PA687 Theophylline and budesonide downregulate production of cytokines by blood T lymphocytes of patients with COPD
Aliaksei Kadushkin (Minsk, Belarus), Anatoli Tahanovich, Volha Dziadzichkina, Liudmila Movchan, Tatiana Shman

PA688 Differential response of monocyte-derived macrophages from COPD and healthy subjects to LPS/IFNγ stimulation
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Ivanu Sugarlo, Dina Gassan, Olesya Kotova, Evgeniya Afanaseva, Elizaveta Shuldoko, Yana Gorachkova

PA689 Neutrophil to lymphocyte ratio and severity of COPD: prospective study
HASSENE BAILI (sousse, Tunisia), Imène Toul, Yosra Brahem, Soumaya Bouchareb, Nadia Keskes Boudawra, Souhir Kessisa, Jihène Ayeb, Jalel Knani, Leila Bousoffara

PA690 Analysis of DNA repair synthesis in peripheral blood lymphocytes from patients with well-controlled and uncontrolled asthma
Andrey Evgenievich Lintsov (Saint-Petersburg, Russian Federation), Alisher Soliev, Pavel Slizhov, Nadezhda Pleschach, Victor Mikhailov

PA691 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

PA692 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, Marcus Peters, Nikolaos Giannakis, Hanns Hatt, Jürgen Knobloch

PA693 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

PA694 In vivo allergen-activated inflammatory eosinophils reduced airway smooth muscle cells apoptosis in allergic asthma patients
Andrius Januskevicius (Kaunas, Lithuania), Egle Jurkeviciute, Airidas Rimkunas, Jolita Palacionyte, Beatrice Tamasauskaite, Ieva Janulaityte, Virginija Kalinauskaite-Zukauske, Kestutis Malakauskas

PA695 The bronchial challenge with D. pteronyssinus enhanced pro-proliferative properties of inflammatory eosinophils subtype in allergic asthma patients
Egle Jurkeviciute (Kaunas, Lithuania), Andrius Januskevicius, Airidas Rimkunas, Jolita Palacionyte, Beatrice Tamasauskaite, Ieva Janulaityte, Virginija Kalinauskaite-Zukauske, Kestutis Malakauskas

PA696 Gender-specific differences in leukocyte subsets of end-stage COPD patients analyzed by flow cytometry
Ara Cho (Vienna, Austria), Alberto Benazzo, Jasmin Mucha, Anna Marianne Weijler, Ulrike Just, Robert Knobler, Konrad Hoetzenecker, Thomas Wekerle, Peter Jaksh

Pre-congress content Session 105 13:15 - 14:15
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): Interstitial 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), Vasilieos Kouranos (London, United Kingdom)

PA697 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

PA698 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 Valeyr, 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, Jérôme 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
Natallia Demyanenko (Moscow, Russian Federation), Averbakh Mihail, Natallia Makaryants, Elena Vladimirova, Anna Egorova, Aminat Akhmedova

HLA Associations in Czech Patients with Sarcoidosis
Martin Petřek (Olomouc, Czech Republic), Kateřina Sikorová, Veronika Zizková, 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 Ostrovskyy, Ksenia Ostrovskva, Oleksandr Varunkiv, Mariana Kulynych-Miskiv, Galyna Korzh, Iryna Savelikhina, 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 features of sarcoidosis in overweight patients.
Evgeniy Shelepikhin (Moscow, Russian Federation), Evgeniy Shchepekhin, 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 Mcenery

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 Zeinalova (Donetsk, Ukraine), Olena Semendyayeava, Liza Tsirkovskaya, Nadezhda Monogarova

Fatigue, coping, anxiety and depression in patients with sarcoidosis
Linda Charvoz (Lausanne, Switzerland), Aline Veyre, Sandra Chatelein, Nicolas Domon, Dorit Irène Novel, Mary-Line Wiamsem, 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
Ievgenia Merenkova (Kyiv, Ukraine), Volodymyr Gavryshyk, 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

**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**

Juli 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 Kubysheva, 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 Zienolddiny, Heidi Noto, Denitsa Vlaykova, Aage Haugen, Tatjana 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

**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

**Oxalate excretion in patients with allergic airway diseases**

Svetlana K. Soodaeva (Moscow, Russian Federation), Igor A. Klimanov, Elena Tush, Anna Obykhov, Dmytro Osvyannikov, Svetlana V. Vanyakina 4 Vanyakina, Olga Khaletskaia, M Glukhova, L Nikitina

**Plasma derived-exosome microRNAs in Idiopathic Pulmonary Fibrosis of Anti-synthetase syndrome Disease patients**

Sara Boffini (Pavia, Italy), Giovanni Zanframundo, Veronica Codullo, Vanessa Frangipane, Laura Pandolfi, Sara Lettieri, Belén Atienza-Mateo, Sara Remuzgo Martinez, Carlomaurizio Montecucco, Miguel A. Gonzalez-Gay, Lorenzo Cavagna, Federica Meloni

**Improved assay for the quantification of hydroxyproline (collagen) in animal models of Idiopathic Pulmonary Fibrosis.**

Mary McElroy (Edinburgh (Edinburgh), United Kingdom), Jem Davis, Angela Marsden, Pan Filis, Darren Spark, Iain Love

**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, Takuji Suzuki

**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 Ottonello, 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 Welk, Marina Pavlidou, Gabriele Matschiner, Claudia Wurzenberger, Eva-Maria Hansbauer, Janet Peper-Gabriel, Thomas Jaquin, 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, Gabriele 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), Kyu 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 Macisaac, David Lin, Michael Kobor, Charlotte E Bolton, Ian Sayers, Ian Hall, Rachel Clifford

### Pre-congress content

**Session 107**

**E-poster: Advances in therapeutic plans for sleep disordered breathing**

**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)

### PA737
**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**
Peter Coss (Dublin 8, Ireland), Gerard King, Caroline Daly, Ross Murphy, Anne Marie Mc Laughlin

### PA738
**Positive airway pressure emergent Cheyne-Stokes breathing**
Neil Skjodt (Lethbridge (AB), Canada), Ronald S. Platt

### PA739
**Evaluation of 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**
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Stavrou Vasileios, George Vavougios, Zoe Daniil, Evdokia Gogou, Chaido Pastaka, Nikolaos Economou, Chrisi Hatzoglou, Konstantinos Gourgoulianis

### PA740
**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**
Wojciech Trzepiızur (Angers, France), Peter A. Cistulli, Martin Glos, Bruno Vielle, Kate Sutherland, Peter J. Wijkstra, Aarnoud Hoekema, Frederic Gagnadoux

### PA741
**Efficacy testing for oral appliance therapy in obstructive sleep apnea**
Kimberly Johnson (Rochester, United States of America), Michelle Herberts, Subha Giri, Patricio Escalante

### PA742
**Mandibular advancement splints and glucose levels in patients with type 2 diabetes and obstructive sleep apnea: A pilot study**
Romeo Alam (Montréal, Canada), Emily Santini, Geneviève Tremblay, John Kimoff, Mark Sherman, Fernanda Almeida, Jean Patrick Arcache, Andrea Benedetti, Zelalem Negeri, Kaberi Dasgupta, Nelly Huyinh, Sushmita Pamiidi

### PA743
**A novel machine learning approach to predict oral appliance (OA) therapy responses in obstructive sleep apnoea (OSA)**
Danny Eckert (Bedford Park (SA), Australia), Ritaban Dutta, Benjamin Tong

### PA744
**Effects of physical exercise on the respiratory muscles, aerobic capacity and quality of life in patients with obstructive sleep apnea**
Julian Andres Rivera Motta (Cali, Colombia), Ricardo Mosquera, Lina Marcela Orozco Mejia

### PA745
**Pitolisant long term effect in sleepy obstructive sleep apnea patients without CPAP.**
Yves Daivilliers (Montpellier, France), Johan Verbraecken, Markku Partinen, Jan Hedner, Tarja Saaresranta, Ognian Georgiev, Rumen Tiholov, Christian Caussé, Isabelle Lecomte, Renaud Tamisier, Patrick Lévy, Jeanne-Marie Lecomte, Jean-Charles Schwartz, Jean-Louis Pépin
**PA746**  
Pitolisant efficacy in excessive daytime sleepiness for patients with obstructive sleep apnea  
CHRISTIAN CAUSSE (Paris, France), CHRISTIAN CAUSSE, Jean-Louis Pépin, Yves Dauvilliers, Valérie Attali, Philippe Lehert

**PA747**  
Reduced hypoxic burden following carbonic anhydrase inhibition in obstructive sleep apnea – a randomized placebo-controlled study  
Christian Strassberger (Gothenburg, Sweden), Ludger Grote, Kaj Stenlöf, Jan Hedner, Ding Zou

**PA748**  
Effect of acetazolamide on visuomotor performance at altitude in healthy people older than 40 years: RCT  
Aurelia Elena Reiser (Schaffhausen, Switzerland), Michael Furian, Aline Buerger, Laura Mayer, Mona Lichtblau, Simon R Schneider, Patrick Bader, Paula Appenzeller, Lara Muralt, Maammed Mademilov, Shoira Ayyadarelua, Aimura Abdorea, Aybermet Muratbekova, Talant Maratbekovich Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch

**PA749**  
Acetazolamide for Preventing Acute Mountain Sickness in Healthy Older than 40 years. RCT.  
Michael Furian (Zürich, Switzerland), Maamed Mademilov, Ainura Abdraeva, Mona Lichtblau, Ulan Sheraliev, Nuriddin H Marazhapov, Aline Buergin, Konstantinos Bitos, Laura Mayer, Aurelia Reiser, Simon R Schneider, Simone Buenzli, Shoira Ayyadarelua, Aybermet Muratbekova, Talant M Sooronbaev, Silvia Ulrich, Konrad E Bloch

**PA750**  
Impact of Reboxetine plus Oxybutynin treatment for Obstructed Sleep Apnea on the Cardiovascular Autonomic Activity  
Elisa Perger (Milano, Italy), Paolo Castiglioni, Debora Rosa, Stefano Vicini, Paolo Mergigg, Andrea Faini, Laura Pini, Luigi Taranto Montemurro, Carolina Lombardi, Gianfranco Parati

**PA751**  
Varenicline administration for smoking cessation may reduce apnea hypnea index in sleep apnea patients  
Athanasia Patakka (Thessaloniki, Greece), Cristos Frantzidis, Polixeni Gkivogkli, Christiane Nday, Panteleimon Chriskos, Maria Karagianni, Haris Styliadis, Evangelos Paraskevopoulos, Chrysoula Kourtidou-Papadeli, Panagiotis Bannidis

**PA752**  
Obstructive sleep apnoe improves on Dupilumab in patients treated for polyposis and severe asthma  
Karl-Christian Bergmann (Berlin, Germany), Torsten Zuberbier

**PA753**  
Immediate effect and daily use of a vibrating forehead device in patients with positional apnea.  
Laura Hidalgo Armas (Vitoria, Spain), Sandra Inglés, Rafaela Vaca, José Cordero-Guevara, Joaquin Durán-Carro, Jorge Ullate, Amandine Faucher, Jordi Rigau, Ferrans Barbe, Joaquin Durán-Cantolla

**PA754**  
Therapy compliance and patient satisfaction of a new vibrating forehead device for positional apnea.  
Laura Hidalgo Armas (Vitoria, Spain), Sandra Inglés, Rafaela Vaca, José Cordero-Guevara, Joaquin Durán-Carro, Jorge Ullate, Amandine Faucher, Jordi Rigau, Ferran Barbe, Joaquin Durán-Cantolla

**PA755**  
The influence of surgical hyoid bone repositioning on upper airway collapsibility  
Corine Samaha (Beirut, Lebanon), Hiba Tannous, Diane Salmon, Joseph Ghafari, Jason Amatoury

**PA756**  
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

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**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)

**PA757**  
A cross-sectional study on the use of information technology among people with COPD, in Sweden  
Pernilla Sönnefors (Stockholm, Sweden), Kirsti Skavberg Roaldsen, Agnete Stähle, Karin Wadell, Alexandra Halvarsson

**PA758**  
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, Pernilla 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, Dierry Fernandes Rugila, Thamires Sposito, Jéssica Priscila Silva, Jessyca Pachi Rodrigues Selman, Fabio Pitta, Karina Couto Furlanetto

Physiological Cost in Daily Life Activities in Lung Cancer
Melda Saglam (Ankara, Turkey), Hamide Sahin, Naciye Vardar-Yaglı, Kübra Kılıç, Ebru Calık-Kutukcu, Deniz Inal-Ince, Saadettin Kılıckap

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), Dierry 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 Micheleti, 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 Hernandez, Fabio Pitta

Validity and reproducibility of a simple upper limb functional test in subjects with COPD and asthma
Natielly Soares Correia (Londrina, Brazil), Joice Mara Oliveira, Dierry Fernandes Rugila, Denner Ildemar Melo, 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

Pre-congress content Session 109 13:15 - 14:15
E-poster: Peripheral muscle function, exercise capacity and functional status 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): Interstitial lung diseases, Airway diseases, Respiratory critical care, Pulmonary vascular diseases, Sleep and breathing disorders, Thoracic oncology

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

Chairs: Catarina Duarte Santos (Almada, Portugal), Erik Frykholm (Umeå, Sweden)

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
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<td>Caroline Maschio 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</td>
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<td>necla Başkurt (Famagusta, Cyprus), Ozge Ozalp, Ayşe Volkan</td>
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<td>The Effect of Delayed Onset Muscle Soreness on Pulmonary Function Parameters and Exercise Capacity in Healthy Subjects</td>
<td>Sema Ozden (Nicosia, Cyprus), Ozge Ozalp, H. Baran Yosmaoğlu</td>
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<td>PA775</td>
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<td>Ashlihan Cakmak (Ankara, Turkey), Deniz Inal-Ince, Elif Kocaaga, Ipek Baysal, Samiye Yabanoglu-Ciftci, Emirhan Nemutlu, Lutfi Coplu</td>
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<td>PA776</td>
<td>Investigating risk factors for falls post-thoracic surgery in people with lung cancer</td>
<td>Daniel Tough (Middlesbrough, United Kingdom), Jonathan Robinson, John Dixon, Joel Dunning, Jonathan Ferguson, Ian Paul, Samantha L Harrison</td>
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<td>PA777</td>
<td>ASSOCIATION OF EXERCISE CAPACITY AND ENDOTHELIAL FUNCTION IN PATIENTS WITH FIBROSING INTERSTITIAL LUNG DISEASE</td>
<td>Carina Nunes (São Paulo (SP), Brazil), Regiane Arruda, Frederico Cruz, Fernanda Consolin, Shane Philips, Luciana Sampaio</td>
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<td>PA778</td>
<td>Functional performance in non-COPD chronic respiratory diseases: a systematic review</td>
<td>Camile Zamboti (Londrina, Brazil), Thatielle Garcia, Larissa Dragoneci Bertin, Gabriela Garcia Krinski, Heloise Angelico Pimpão, Heloiza Almeida, Brunna Luiza Tavares, Marcos Ribeiro, Vinicius Cavalerhi, Fabio Pitta, Carlos Augusto Camillo</td>
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<td>PA779</td>
<td>Comparison of exercise capacity, physical activity level and quality of life in patients with different severity of non-cystic fibrosis bronchiectasis</td>
<td>Melike Mese (İzmir, Turkey), Sema Savci, Buse Ozcan Kahraman, Aylin Tanriverdi, Damla Gunduz, Can Sevinc</td>
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<td>PA780</td>
<td>Relationship between self-efficacy and physical functioning in patients with COPD</td>
<td>Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Sofie Breuls, Marieke Wuyts, Lies Glorie, Nikolaas De Maeyer, Thessa Vermeest, Wim Janssen, Thierry Troosters</td>
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<td>PA781</td>
<td>Exercise capacity, peripheral muscle strength, and balance are related in primary ciliary dyskinesia</td>
<td>Hazal Sonbahar Ulu (Ankara, Turkey), Ashlihan Cakmak, Deniz Inal Ince, Melda Saglam, Naciye Vardar Yakgli, Ebru Calik Kutukcu, Hayriye Ugur Ozcelik</td>
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<td>PA782</td>
<td>Does loss of automaticity influence dual task cost walking velocity in COPD patients?</td>
<td>S Ahmed Hassan (Toronto (ON), Canada), Leandro V Bonetti, Karina Kasawara, Matthew B Stanbrook, Antenor Rodrigues, Dmitry Rozenberg, Wendy Darlene Reid</td>
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<td>PA783</td>
<td>Relationship between functional capacity and activities of daily living, quality of life, psychosocial status and frailty in medical intensive care unit patients</td>
<td>Naciye Vardar Yagli (Ankara, Turkey), SELMAN KILIÇ, Melda Saglam, Deniz Inal Ince, Ebru Ortac Ersoy, Arzu Topeli</td>
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<td>PA784</td>
<td>Association between physical functioning and food intake of patients with COPD</td>
<td>Isis Grigoleto (Pirapozinho, São Paulo, Brazil), Juliana Souza Uzeloto, Bruna Spolador De Alencar Silva, Dionei Ramos, Paulo Roberto Gomes, Fabiano De Lima, Ercy Mara Cipulo Ramos</td>
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<td>PA785</td>
<td>Frailty and functional capacity of interstitial lung diseases patients</td>
<td>Pierre-François Tremblay Labrecque (Québec, Canada), Jany Harvey, Geneviève Dion, Didier Saey</td>
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<td>PA786</td>
<td>A comparison of arm exercise capacity and activities of daily living between well-controlled asthma patients with and without severe fatigue during daily life</td>
<td>Ashlihan Cakmak (Ankara, Turkey), Beyza Nur Karadüz, Ebru Calik-Kutukcu, Deniz Inal Ince, Naciye Vardar-Yagli, Melda Saglam, Haluk Tekerlek, Cemile Bozdemir-Ozel, Hazal Sonbahar-Ulu, Merve Firat, Hulya Arikan, Gul Karakaya</td>
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<td>PA787</td>
<td>Functional status following pulmonary rehabilitation in patients with interstitial lung disease</td>
<td>Guilherme Rodrigues (Aveiro, Portugal), Sara Souto-Miranda, Vânia Rocha, Pedro Ferreira, Alda Sofia Pires De Dias Marques</td>
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<td>PA788</td>
<td>Investigation of Relationship Between Lower Extremity Muscle Strength, Physical Activity and Endurance Capacity in Pulmonary Hypertension</td>
<td>Özge Ertan (İstanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Ahmet Kaya Bilge, Murat Inanc, Gulfer Okumus</td>
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**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)

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<th>PA790</th>
<th>Relationship between baseline rescue medication use and reductions in COPD exacerbation rates: a subgroup analysis of the ETHOS trial</th>
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<td>John R Hurst (London, United Kingdom), Meilan Han, Bartolome R Celli, Mona Bafadhel, Martin Jenkins, Paul Dorinsky, Mehul Patel</td>
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<th>PA791</th>
<th>Benefits of triple therapy in moderate, severe, and very severe COPD: subgroup analysis of the ETHOS trial</th>
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<td></td>
<td>Klaus F. Rabe (Kiel, Germany), Gary T Ferguson, Martin Jenkins, Mehul Patel, Paul Dorinsky</td>
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<th>PA792</th>
<th>Risk factors for all-cause mortality in patients with COPD: results from the ETHOS trial</th>
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<td></td>
<td>Gary T. Ferguson (Farmington Hills, United States of America), Dave Singh, Klaus F Rabe, Martin Jenkins, Mehul Patel, Paul Dorinsky</td>
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<th>PA793</th>
<th>The association between health-related quality of life and COPD exacerbations measured by EQ-5D-5L in the ETHOS trial</th>
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<td>Dan Jackson (Cambridge, United Kingdom), Dan Jackson, Martin Jenkins, Enrico De Nigris, Mehul Patel, Mario Ouwens</td>
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<th>PA794</th>
<th>Predicting SGRQ score based on CAT score: post-hoc analysis of the IMPACT trial</th>
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<td>Paul Jones (London, United Kingdom), Soham Shukla, Lee Tombs, Afisi Ismaila, Alan Martin, Dawn Midwinter, Isabelle Boucot, Nancy Risebrough, Claus Vogelmeier</td>
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<th>PA795</th>
<th>Factors influencing LAMA addition to COPD patients receiving ICS/LABA in clinical practice-RETRIEVE study.</th>
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<td>Stavros Tryfon (Thessaloniki, Greece), Georgios Krommidas, Athanasis Kapetangiorgis, Maria Bertoli, Polyanthi Papanastasiou</td>
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<th>PA796</th>
<th>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.</th>
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<td></td>
<td>Maria Bertoli (Pikermi, Greece), Stavros Tryfon, Paschalis Steiropoulos, Alexandros Ginis, Maria Bertoli</td>
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<tr>
<th>PA797</th>
<th>Improvements in lung function with umeclidinium/vilanterol analysed by reversibility at screening: a post hoc analysis of the EMAX trial</th>
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<td>Leif Bjorner (Lund, Sweden), Claus F. Vogelmeier, Edward M. Kerwin, Isabelle H. Boucot, François Maltais, Lee Tombs, Chris Compton, David A. Lipson, Paul W. Jones</td>
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<th>PA798</th>
<th>Inhaled corticosteroid use and its association with Pseudomonas aeruginosa infection in COPD</th>
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<td>Hanaa Shafiek (Alexandria, Egypt), Javier Verdú, Carla López-Causapé, Amanda Iglesias, Lluisa Ramon-Clar, Carlos Juan, Nuria Toledo-Pons, Antonio Oliver, Borja García Cosío Piñeras</td>
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<th>PA799</th>
<th>Are COPD prescription patterns aligned with guidelines? a population-based study</th>
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<td>Taranee Bahreman (Vancouer, Canada), Mahyar Etminan, Nardin Roshan-Moniri, Mary A. De Vera, Hamid Tavakoli, Mohsen Sadatsafavi</td>
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<th>PA800</th>
<th>Clinical and economic impact of inhaled corticosteroid withdrawal in Spanish COPD patients treated with triple therapy</th>
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<td>Victoria Neces (Tres Cantos, Spain), Laura Amanda Vallejo-Aparicio, Afisi Ismaila, Antoni Sicras-Mainar, Aram Sicras-Navarro, Cruz González, Rafael Cuervo, Soham Shukla, Marcos Garcia-Péluela</td>
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**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 Gramegna (Milano (MI), Italy)

PA801 Pathogenetic treatment of patients with new coronavirus infection COVID-19
Nikolai Nikolenko (Moscow, Russian Federation), Ludmila Shovkun, Dmitry Kudlay, Elena Kampoos

PA802 The first experience of anti-IL6 administration for COVID-19 infection
Alexander Vizel (Kazan (Republic of Tatarstan), Russian Federation), Diana Abdulgaunieva, Ainagul Bayaliieva, 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 Eijofer

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 Minenma, Maria Rosaria De Carlo, Maria Giovanna Palumbo, Maria Pia Foschino-Barbaro

PA805 Predicting role of coagulation parameters in Covid-19
Sarra Maazaoui (Tunis, Tunisia), Imen Nouira, Safa Marzouki, Sonia Habibech, Mariem Chaabane, Hajer Racil, Nawel Chaouch, imen nouira

PA806 Obesity in patients with COVID-19: is it a predictive factor for a poor prognosis?

PA807 Recovery from Respiratory Failure in Patients with COVID-19
Mirac Öz (Ankara, Turkey), Serhat Erol, Aslıhan Gürün 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, Iklbiel Khalfallah, Nouha Boubaker, Safa Belkhir, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

PA809 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

PA810 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, Souhri Kessissa, Fatma Elaari, Lamia Bouggarrou, Nadia Keskes Boudawara, Jaleh Knani, Leila Boussofiara

PA811 Characteristics of COVID-19 infection in diabetics
Houda Séné (Tunis, Tunisia), Wafa Fenina, Hana Bilbech, Donia Belkhir, Meriem Maalej, Issraa El Wadhane, Aymen Jebali, Ahmed Laater, Nadia Mehri, Nozha Ben Salah, Bechir Louzir

PA812 Alpha 1-Antitrypsin deficiency (AATT) in patients with ARDS consequent to SARS-CoV-2 infection.
Andrea Vianello (Padova (PD), Italy), Fausto Braccioni, Gabriella Guarnieri, Beatrice Molena, Alessia Achille, Sara Lococo, Leonardo Salvati, Ernesto Crisafulli, Leonardo Bertagna De Marchi, Marco Caminati, Gianenrico Senna

PA813 Inflammatory biomarkers as predictors of intubation and mortality in severe COVID-19
Diego Alexis Garcia Estudillo (mexico, Mexico), Ángel Emmanuel Vega-Sánchez, Jorge Rojas-Serrano, Mayra Edith Mejía-Ávila, Heidegger Norberto Mateos-Toledo, Andrea Estrada-Garrido, Jonathan Saúl Castillo-Pedroza

PA814 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, Islem Mejri, Chiraz Aichaouia, Zied Moatameri, Mohsen Khadhraoui

PA815 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

PA816 Halotherapy and Covid-19: an oppinion for a possible future prevention approach
Radu Adrian Crisant-Dabija (Iasi (Iasi), Romania), Claudia Elena Grigoras-Ichim, Alina Costina Luca, Gabriel Ioan Sandu, Dumitru Filipeanu
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<th>PA817</th>
<th>Experience of olokizumab use in COVID-19 patients</th>
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<td>Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova, Semen Zotov</td>
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<td>Oxana Fesenko (Moscow, Russian Federation)</td>
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<th>PA819</th>
<th>Late Breaking Abstract - Correlation of CT severity score and Inflammatory markers to predict the disease severity in COVID 19 patients</th>
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<td>Abhijeet Lonsane (Pune, India), R.K. Chopra, Mohanakrishnan Jayamani</td>
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<th>PA820</th>
<th>Late Breaking Abstract - Covid Oximetry AT Home - A novel pandemic approach</th>
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<td></td>
<td>Saagar Patel (Manchester (Greater Manchester), United Kingdom), Malapanjudi Chandrashekar, Kaley Whelan, James Wallace</td>
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<th>E-poster: New insight into the immunology of allergies, asthma and COPD: from mouse to man</th>
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<td><strong>Aims:</strong> 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.</td>
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<td><strong>Disease(s):</strong> Airway diseases</td>
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<td><strong>Method(s):</strong> Cell and molecular biology  Physiology  Pulmonary function testing  Imaging  General respiratory patient care  Epidemiology  Public health</td>
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<td><strong>Chairs:</strong> Lena Uller (Lund, Sweden), Peter Gibson (Newcastle, Australia)</td>
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<th>PA821</th>
<th>Molecular characterization of bronchoconstriction induced by activated T cells</th>
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<td>Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Koyama, Miyako Yamaguchi, Chiemi Kumitani, 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, Yuna Fukutomi, Takayuki Ohtomo, Osamu Kaminuma</td>
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<th>PA822</th>
<th>Peculiarities of lipoperoxidation processes in chronic obstructive pulmonary disease associated with multiple myeloma</th>
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<td>Olga Smirnova (Krasnoyarsk, Russian Federation), Olga Smirnova</td>
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<th>PA823</th>
<th>ILC2 cells from severe allergic and eosinophilic asthma demonstrate increased expression of TSLP receptor (TSLPR) and enhanced proliferative capacity.</th>
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<td>Bilal Malik (Newcastle, Australia), Rebecca Mckerrrow, John Harrington, John W. Upham, Nathan Bartlett, Peter Ab Wark</td>
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<th>PA824</th>
<th>Does parental tuberculosis infection increase the risk of asthma in their offspring? A Norwegian registry-based study</th>
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<td>Juan Pablo López-Cervantes (Bergen, Norway), Rajesh Shigdel, Tehmina Mustafa, Cecilie Svanes</td>
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<th>PA825</th>
<th>Correlation of eotaxin-3 gene expression and other IL-13-induced genes in patients with asthma</th>
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<td></td>
<td>Simon Couillard (Sherbrooke, Canada), James Melhorn, Akul Singhania, Daniel Horowitz, Ratko Djukanović, Christopher H Woelk, Timothy S C Hinks</td>
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<th>PA826</th>
<th>Effects of anti-IL-17 on inflammation and oxidative stress in an ASTHMA-COPD overlap syndrome (ACO) model</th>
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<td>Nilo Martins (São Paulo, Brazil), Leandro D. N. Camargo, Francine M. D. Almeida, Juliana Lourenço, Suellen Bezerra, Tabata M.D. Santos, Silvia Fukuzaki, Fernanda D. T. Q. D. S. Lopes, Milton M. Martin, Edna A. Leick, Renato F. Righetti, Carla M. Prado, Iolanda D. F. L. C.Tibério</td>
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<th>PA827</th>
<th>Identifying eosinophil subsets in a mouse model of pollutant-aggravated allergic asthma</th>
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<td>Annelies Bontinck (Gent, Belgium), Joycelyn De Volder, Mirjam P. Roffel, Guy G. Brussels, Guy F. Joos, Tania Maes</td>
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<th>PA828</th>
<th>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</th>
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<td>Maciej Chalubinski, Izabela Gubas, Mateusz Gawrysiak, Robert Szewczyk, Adrian Gajewski, Marek L. Kowalski</td>
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<th>PA829</th>
<th>Traffic-related air pollution induces mitochondrial oxidative stress and transgenerational mitochondrial dysfunction</th>
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<td>Baoming Wang (st lenoards, Australia), Yik Chan, Ayad Anwer, Sonia Saad, Hui Chen, Brian Oliver</td>
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<th>PA830</th>
<th>Mast cell chymase induce functional and morphological alterations in bronchial epithelial cells</th>
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<tr>
<td></td>
<td>Frida Berlin (Lund, Sweden), Sofia Mogren, Lena Uller, Cecilia Andersson</td>
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PA831 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)

PA832 Hypertrophic and polyposis synonasal mucosa (SM) changes in children with atopic bronchial asthma (BA) and allergic rhinitis (AR)
Igor A. Klimanov (Moscow, Russian Federation), Anastasija Vagina, Tatyana Eliseeva, Svetlana Kraslinikova, Vilya Bulgakova, Ivan Balabolkin, M. Glukhova, L. Nikitina, S. Soodaeva

PA833 Interleukin-10 expressing regulatory B cells are decreased in blood of smokers and COPD patients
Merel Jacobs (Gent, Belgium), Sven Verschraegen, Bhiyga Salhi, Guy Brusselle, Ken Bracke

PA834 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 Chałuński

PA835 Respiratory syncytial-virus induced cytokine production from leukocytes is impaired in severe asthma
Kaschin Jamal Jameel (Bochum, Germany), Sarah Yanik, Eike Bültthoff, Simon Rohde, Daniel Weidinger, Faisal Yusuf, Juliane Kronsbein, Matthias Tenbusch, Jürgen Knobloch

PA836 Different patterns of autoAbs in asthma-COPD overlap cogort.
Anna Konishcheva (Moscow, Russian Federation), Valentina Gervazieva, Galina Osipova, Tatiana Ospelnikova, Daria Fomina

PA837 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, Marek Kobierecki, Michał Szymański, Izabela Gulbas, Aleksandra Likorińska, Sylwia Michlewiska, Marek L. Kowalski, Maciej Chałuński

PA838 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@mumail.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 (Mutitla, Spain), Javier Poyo Molina, Koral Fernández De Roitegui Pérez, Clara Ortega Michel, Irantzu Elorza Sagasta, Miguel Ángel Sánchez De Toro, 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, Diletta Cozzi, Vittorio Miele, Gianmaria Rossolini, Simona Pollini, Cosimo Nardi, Anna Peired, Alessandro Moretti, Carlo Nozzoli, Adriano 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
Tony Marín (Badalona (Barcelona), Spain), Pere Serra, Rachid Tazi Mezalek, Carmen Centeno, Marina Compte, Sergi Martinez, Eduardo Coluccio, Pilar Ricart, Felipe Andreo, Jorge Abad, Antoni Rosell
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 Trentacosti, Mariarosaria Pellegrino, Giulia Bruzzi, Linda Manicardi, Antonio Moretti, Chiara Nani, Caterina Cerbone, Morgana Vermei, 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), Ardian Latifi, Andrew Demaio, 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, Anmol 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

HISTOLOGICAL FINDINGS IN TRANSBRONCHIAL CRYOBIOPSYES 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 Claussen, Daisy Børesund, 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 Häntschel, Jürgen Hetzel

PA852 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 Souza Moura, Patricia Caetano Mota, Natália Melo, José Miguel Pereira, Rui Cunha, André Carvalho, António Morais, Helder Novais-Bastos

PA853 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, Lonny Yarns

PA854 To compare effect of Dexametomidine 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

PA855 Multimodality endoscopic treatment for tracheobronchial stenosis secondary to endobronchial tuberculosis
Nai Chien Huan (Kajang, Malaysia), Khai Lip Ng, Fatimah Azmah Mohammad, Nur Husna Mohd Amunin, Noorul Afidza Muhammad, Unimi Nadira Daut, Mona Zaria Nasaruddin, Jamalul Azizi Abdul Rahman

PA856 Outcomes of bronchial artery embolization for the management of hemoptysis
Nada Gader (nabeul, Tunisia), Narjes Abid, Manel Loukil, Ines Laouini, Slim Klaboussi, Khaled Bouzaidi, Hedia Ghrairi

PA857 Endobronchial treatment for post-pneumonectomy bronchopleural fistula
Güntuğ Batuhan (Izmir, Turkey), Kenan Can Ceylan, Seyda Öz Kayar

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)

PA858 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

PA859 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

PA860 Short-range interactions between fibrocytes and CD8+ T cells modulate the balance between tissue repair and destruction in COPD. Edmée Eyraud (Bordeaux, France), Elise Maurit, Pierre Vallois, Florian Levet, Jean-Baptiste Sibareta, Pierre-Olivier Girodet, Matthieu Thumerel, Cecile Contin-Bordes, Patrick Berger, Isabelle Dupin

PA861 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


PA863 Senescent human bronchial epithelial cells induce small airway fibrosis in mice. Nayuta Saito (Barcelona, Spain), Fernanda Ines Hernandez, Federico Pietrocola, Manuel Serrano

PA864 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

PA865 Cyto genetic 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 Mikhailson

PA866 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 Ostrovska, Ksenia Ostrovska, Vasyl Miskiv, Iryna Savelkhina, Oleksandr Varunkiv, Kostiantyn Shvets

PA867 The plgR-IgA system as a new player in lung fibrosis. Thomas Planté-Bordeneuve (Ortignies, Belgium), Thomas Planté-Bordeneuve, Charles Pilette, Yousof Yakoub, Marylène Lecocq, François Huaux, Antoine Froidure

PA868 Genetic deletion of SLPI promotes inflammatory cell recruitment in a model of chronic lung disease. Ryan Brown (Belfast, United Kingdom), Peter Ferris, Caioifa Dougan, Rebecca Delaney, Marcus A. Mall, Sinéad Weldon, Clifford C. Taggart

PA869 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

PA870 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

PA871 LSC - 2021 - Epidermal growth factor receptor in airway remodelling during allergic airway disease – divergent roles during early life and adulthood? Helen Stölting (London, United Kingdom), Simone A. Walker s.walker@imperial.ac.uk / National Heart and Lung Institute, Imperial College London, London), Franz Puttur f.puttur@imperial.ac.uk / National Heart and Lung Institute, Imperial College London, London), Sejal Saglani s.saglani@imperial.ac.uk / National Heart and Lung Institute, Imperial College London, London), Clare M. Lloyd c.lloyd@imperial.ac.uk / National Heart and Lung Institute, Imperial College London, London)
### 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)

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| PA872 | 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, Tania Sprynsian, Olexandr Denisov |
| PA873 | 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, Julianna Aizawa, Steven Taylor, Geraint Rogers, Matthias Govaerts, Paul Cos, Lisa Ostyn, Sarah Sims, Eva Vandeplasse, Mozes Sze, Yves Donnelinger, Lars Vereecke, Heleen Van Acker, Jodie Simpson, Lucy Burr, Anne Willems, Michael Tunney, Cristina Cigana, Alessandra Bragonzi, Tom Coenye |
| PA874 | 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)
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<td><strong>Aims:</strong> 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.</td>
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<td><strong>Disease(s):</strong></td>
<td>Respiratory critical care</td>
<td>Airway diseases</td>
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<td><strong>Method(s):</strong></td>
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<td><strong>Chairs:</strong></td>
<td>Christian Karagiannidis (Cologne, Germany), Christoph Fisser (Regensburg, Germany)</td>
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| PA885 | Safety of as-needed formoterol in asthma patients on different maintenance long-acting β2-agonists | Helen Reddel (Sydney, Australia), Guy Brusselle, Rosa Lamarca, Per Gustafson, Gary P Anderson, Carin Jorup |
| PA886 | 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 |
| PA887 | “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) |
| PA888 | 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 |
| PA889 | Impact of mepolizumab in severe asthma with nasal polyps | Eduarda M. Tinoco (Porto, Portugal), Ana R. Gigante, Ana L. Fernandes, Bruno Cabrita, Cátia Santa, Inês Sucena, Sara Martins, Daniela Machado, Inês Franco, Inês Ladeira, Ivone Pascoal, Ricardo Lima |
| PA890 | Late Breaking Abstract - Anti-IL-5 mepolizumab minimally influences residual blood eosinophils in severe asthma | Glenn Van Hulst (Liège, Belgium), Joseph Jorsen, Nathaline Jacobs, Monique Henket, Renaud Louis, Florence Schleich, Fabrice Bureau, Christophe Desmet |
| PA891 | 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 Garcia-Lliberós, Enrique Zapater-Latorre, Miguel Armengot, Julio Cortijo, Vladimir Wsól |
| PA892 | 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 Mbuaagwab, Erika Penz |
| PA893 | 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 |
| PA894 | Late Breaking Abstract - The impact of treatment with mepolizumab on airway remodeling in patients with severe eosinophilic asthma. | Marek Przybyszowski (Kraców, Poland), Iwona Gross-Sondej, Jacek Zarychta, Stanisława Bazan-Socha, Grażyna Bochenek, Jerzy Soja, Krzysztof Sladek |

**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 Rozemeer (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 (Besançon, France), Guillaume Eberst, Frédéric Claudé, Lucie Laurent, Aurélia Meurisse, Pauline Roux-Claudé, Cindy Barmig, Kevin Bouiller, Catherine Chirouze, Julien Behr, Franck Grillot, Opheïlie Ritter, Sébastien Pili-Floury, Hadrien Winiszewski, Emmanuel Samain, Gilles Capellier, Virginie Westeel |
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

Evolution of respiratory and biopsychosocial affection in critical COVID19 patients after hospital discharge.
Carlos Manzano (Lleida, Spain), Sally Santistevé, Paola Carmona, Aida Monge, Anna Moncusi-Foix, Clara Gort-Paniello, Rafaela Vacs, David De Gonzalo-Calvo, Ferran Barbé, Jessica González

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

Using Machine Learning to Predict mortality for first-day COVID-19 patients presenting to the ICU.
Nahal Mansouri (Lausanne, Switzerland), Elham Jami Shidi, Sahand Rahi

Surgical facemask affects fugitive emissions during aerosol drug delivery by high-flow nasal therapy.
Elena Fernández Fernández (Galway, Ireland), Barry Murphy, Marc Macgilliam, Gavin Bennett, Ronan Macloughlin

Awake prone position in hypoxicemic Covid 19 Pneumonia: Does it reduce the mortality rate?
Islam Mejri Ep Ajili (Hamamalif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Maroua Kacem, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaoua, Zied Moatemri, Mohsen Khadhraoui

Gender differences in ventilation management in COVID-19
Pien Swart (Amstelveen, Netherlands), Marcus Schultz, Ary Serpa Neto, Fredeique Paulus

Assessment of lung re-aeration at two levels of PEEP in patients with early and late COVID-19 related ARDS – a retrospective analysis.
Marry Smit (Utrecht, Netherlands), Ludo Beenen, Christel Valk, Milou De Boer, Maekke Scheerder, Jouke Annema, Frederique Paulus, Janneke Horn, Alexander Vlaar, Fabian Kootj, Markus Hollmann, Marcus Schultz, Lieuve Bos

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

Loui Ezzat (Riyadh, Saudi Arabia), Abdullah Mobeireek, Mohammed Alhajji, Saud Al Saleh, Ezzat Loui, Sultan Al Amro, Abdullah Al Jebreen, Armen Torchian, Liju Ahmed

COVID-19 patient with acute respiratory distress syndrome (ARDS) benefit most from an early prone position.
Richard Vollenberg (Münster, Germany), Markus Strauss, Katharina Schuette-Nuertgen, Hartmut Schmidt, Arik Bernhard Schulze, Phil-Robin Tepasse

Raja Dhar (Kolkata (West Bengal), India), Shyam Krishnan, Subham Sharma, Praveen Kumar Shahi, Milind Sovani

Importance of admission biomarkers in prognostication of patients with SARS-CoV-2
Milan Barik (Hull (North Humberside), United Kingdom), Akhil Sawant

Challenges in steroids and anticoagulants in severe COVID-19 pneumonia.
Alaa Eldien Thabet Hassan (Assiut, Egypt), Alaa Abdelmoniem, Mona Mohamed, Abdelhalim Elsherif, Soheir Kasim

Enric Roger Barbeta Viñas (La Garriga, Spain), Mariana Benegas, Marcelo Sánchez, Anna Motos, Miquel Ferrer, Adrián Ceccato, Rubén Lopez, Leticia Leticia Bueno, Ricard Mellado-Artigas, Carlos Ferrando, Laia Ferández-Barat, Nuria Albacar, Antoni Torres

The use of High Flow Nasal Oxygen (HFNO) and Non-invasive Ventilation (NIV) in COVID-19
Maria Cardone (Napoli (NA), Italy), Iudovica capitelli, Francesco Squillante

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.
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

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

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), Piloni Davide, Federica Albicini, Erica Gini, Amelia Grosso, Angelo Guido Corsico

SARS-CoV-2 infections in people with PCD
Eva Sophie Lunde Pedersen (Bern, Switzerland), Myrofol Goutaki, Amanda Harris, Lucy Dixon, Michele Manion, Bernhard Rindlisbacher, Jane S Lucas, Claudia E Küehni

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 Piloni, Francesca Mariani, Angelo Guido Corsico

Mortality in home mechanical ventilation users during the COVID-19 pandemic
Rebecca D'Cruz (London, United Kingdom), Neeraj Shah, Annastazia Learoyd, Oliver Elias, Mike Mackie, Nick Weston, Nicholas Hart, Georgios Kaltsakas, Philip Marino, Hina Pattani, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Eui-Sik Suh, Patrick Murphy

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

Alpha-1 antitrypsin deficiency severity and the risk of COVID-19
Nuno Faria (Porto, Portugal), Maria Inês Costa, Joana Gomes, Maria Sucena

A study of infection latency and determination of quarantine period in hospital staff with Covid 19
Jayalakshmi T.Kutty (Mumbai (Maharashtra), India), Bhumi Mahdev, 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, Josef Eklöf, Nils Hoyer, Charlotte Suppli Ulrik, Lars Pedersen, Therese S. Lapperre, Zita Barrella Harboe, Uffe Bodger, Rasmus Dahl Lin Bojesen, Kjell Erik Julius Häkansson, Casper Tidemanden, Karin Armbruster, Andrea Browatzki, Howraman Meteran, Christian Niels Meyer, Kristofer Grundtvig Skaarup, Mats Christian Hojbjerg Lassen, Jens D. Lundgren, Tor Biering-Sorensen, Jens-Ulrik Stehr Jensen

Prolonged viral RNA shedding in patients with COVID-19 infection
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Marco Bongiovanni, Angelo De Lauretis, Stefano Carlo Zucchetti, Umberto Zanini

Excess Mortality during COVID-19 pandemic in Istanbul
Elif Dagli (Istanbul, Turkey), Benan Musellim, Sevil Kul, Pinar Ay, Cagla Uyanusta, 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 (Sao 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 Ilić (Sremska Kamennica (Vojvodina), Republic of Serbia), Nevena Savić, Nensi Lalić, Kristina Veres, Jovana 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 Moncusi, Clara Gort, Ivan Benitez, David De Gonzalo, Gerard Torres, Ferran Barbe, Jessica Gonzalez

High Covid-19 mortality in a young population: Istanbul experience
Elif Dagli (Istanbul, Turkey), Nilufer Aykac, Osman Elbek

A method of selecting most significant biochemical parameters in a given clinical setting in COVID-19
Rahuldeb Sarkar (London, United Kingdom), Swati Purohit Joshi, Abhishar 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 Savintseva, Natalia Lazareva

Assessment of the role of CT severity score in COVID-19 outcome prediction in a large Indian cohort
Rahuldeb Sarkar (London, United Kingdom), Swati Purohit Joshi, Abhishar 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, Public health, Epidemiology, Pulmonary rehabilitation, Imaging

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

Asthma control in patients with asthma / obstructive sleep apnea overlap syndrome
Ferdous Yangui (La Marsa, Tunisia), Ferdous Yangui, Ferdous Yangui, Héla Cherif, Mariem Triki, Bochra Karaborni, Mohamed Ridha Charfi

Sleep quality in adults with cystic fibrosis
Tatjana Jakovska-Maretti (Skopje, North Macedonia)

Retinal vascular tortuosity in obstructive sleep apnea-COPD overlap patients
Rabab El Wahsh (Shebin El Kom, Egypt), Maha Yousif, Asmaa Ibrahim

The correlation of sleep quality on symptoms and lung function in COPD patients at the Harum Melati Clinic, Pringsewu, Lampung Province, Indonesia.
Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazli Mustofa, Hetti Rusmini, Tusy Triwahyuni, Ari Nugraha Sukma

Predicting sleep disordered breathing acutely after stroke: comparing eight sleep questionnaires and a logistic regression model
Christian Horvath (Toronto, Canada), Martijn Dekkers, Vanessa Woerz, Simone Duss, Markus Schmidt, Anne-Kathrin Brill, Claudio Bassetti

Home NIV after an acute exacerbation of COPD: criteria and outcomes
Maria João Freitas Ferreira Araújo (Guimarães, Portugal), Diana Pimenta, Daniela Rodrigues, Marta Silva, Ana Luisa Vieira, Lurdes Ferreira

Brainstem strokes are associated with increased obstructive apnea index during sleep acutely after stroke
Irina Filchenko (Bern, Switzerland), Martijn Dekkers, Sebastien Bailieu, Andrea Seiler, Markus Schmidt, Corrado Bernasconi, Claudio Bassetti
The prevalence and risk factors of obstructive sleep apnea in patients with stroke in a tertiary care hospital in India
Rajagopal T. V. (Neyveli (Tamil Nadu), India), Devasahayam J Christopher, Barney Isaac, Ashwin Oliver, Vivek Mathew, Ajith Sivadasan

Prevalence of sleep apnea in patients with recurrent syncope of unknown cause, preliminary results of the SINCOSAH study
Mª Jose Muñoz Martínez (Vigo (Pontevedra), Spain), Enrique García Campo, María Dolores Corbacho Abelaira, Teresa Martín Egaña, María Luisa Torres Durán, Ramón Antonio Tubio Pérez, Mar Mosteiro Añón, María Elena Santamaría López, Alberto Fernández Villar

Sleep pattern and cardiovascular disease: a big data study on gender impact
Elisa Morrone (gattico-Veruno (NO), Italy), Andrea Giordano, Massimo Pistono, Ugo Corrà, Alberto Braghiroli

Cardiovascular outcomes in patients with coronary artery disease and non-sleepy versus sleepy obstructive sleep apnoea phenotypes in the RICCADSA trial
Yeliz Çelik (İstanbul, Turkey), Christine Eulenburg, Erik Thunström, Yuksel Peker

Relationship between sleep quality and functionality in head and neck cancer survivors.
Janet Rodríguez Torres (Granada, Spain), Vanesa Jervíz-Guía, Natalia Muñoz-Vigueras, Esther Prados-Roman, Alejandro Heredia-Ciuró, Marie Carmen Valenza

Impact on quality of life and sleep in head and neck cancer survivors one year after receiving radiotherapy.
Natalia Muñoz-Vigueras (Granada, Spain), Vanessa Gabriela Jervíz Guía, Isabel Castillo Pérez, Paula Obeso Benítez, Javier Martín Núñez, Marie Carmen Valenza

Prevalence of sleep disruption and sleep disorders in patients with Post-Polio Syndrome
Yunis Fazaldin (Southall, London, United Kingdom), Jeong Su Lee, Alexandra Curtis, Simon Shaw, Nicholas Hart, Georgios Kaltsaks, Joerg Steier

Polysomnography findings of children with Neuromuscular Disease and the outcome following the start of Home Mechanical Ventilation.
Supriya Shinde (Bangalore, India), Ilin Kinimi

Clinical phenotypes and characteristics in patients with OSAS and nocturnal respiratory failure
Andrea Portacci (Taranto, Italy), Carla Santomasi, Valentina Di Lecce, Federica Barratta, Maria Luisa De Candia, Alessandro Palumbo, Silvano Dragonieri, Onofrio Resta, Giovanna Elisiana Caragnano

Late onset Pompe Disease: A rare cause of respiratory failure
Rajini Sudhir (Leicester (Leicestershire), United Kingdom), Richard Russell, Aziz Masruq

Pre-congress content Session 119 13:15 - 14:15
E-poster: COVID-19 and obstructive diseases: risk factors, management and long-term effects
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

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 Soysa, Aziz Sheikh

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 Esauleva, Arthur Polozov

The effectiveness of telemedicine methods in the follow-up of asthma in the Covid-19 pandemic process
Saban Melih Simsek (Manisa, Turkey), Deniz Kizilirmak, Yavuz Havlucu
Cough monitoring during the covid-19 pandemic
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Kimberley Holt, Rachel Dockry, Hilary Thornton, Frank Keane, Kevin McGuinness

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

Clinical characteristics and outcomes in hospitalized COVID-19 patients with COPD
Muzaffer Onur Turan (Izmir, Turkey), Burcu Arpinar Yigitbas, Pakize Ayse Turan, Arzu Mirici

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

Eosinopenia in COPD patients with severe acute respiratory virus 2 (Sars-CoV-2) infection as a potential fatal outcome predictor
Jane-Erica Paluero (Varnamo, Sweden), Lemar Tokhi, Mihovil Roglic, Marina Labor

COVID-19 prevalence, risk factors and outcomes in COPD
Umberto Semenzato (PADOVA, Italy), Matteo Bonato, Erica Bazzan, Micaela Romagnoli, Elisabetta Cocconcelli, Mariaenrica Tinè, Graziella Turato, Simonetta Baraldo, Manuel G. Cosio, Marina Saetta

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

Characterization of COPD admissions during the first COVID-19 outbreak
Hanaa Shafiek (Alexandria, Egypt), Borja Garcia Cosio Piqueras, Nuria Toledo-Pons, Amanda Iglesias, Margalida Barcelo, Cristina Represas-Represas, Lorena Comeche, Pablo Catalán, Alberto Fernández-Villar, Jose Luis Lopez-Campos, Jose Echave-Sustaeta, Juan Jose Soler-Cataluña

Effect of quarantine on hospital admissions for asthma/COPD exacerbations: association with air pollution
Ioanna Sigala (Athens, Greece), Timos Giannakas, Vasileios Giannakoulis, Efthimios Zervas, Aikaterini Brinia, Niki Gianniot, Efrosyni Dimia, Andres Asimakos, Paraskevi Katsaounou

Evolution and prognosis of patients with Asthma or COPD hospitalized by COVID-19 infection. Diferences 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 Gratacos

suraj rajput (ebbsfleet (Kent), United Kingdom), Sandip Banerjee, Samantha Perryman, Rahulde Sarkar

The risk factors in asthma patients for COVID19 infection
Temenuzhka Ignatova-Danova (Rousse, 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

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), Alicie 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)

PA974 A survey exploring psychological distress among patients with COPD during the COVID-19 pandemic
Ingeborg Farver-Vestergaard (Vejle, Denmark), Sandra Rubio-Rask, Ole Hilberg, Anders Lukke

PA975 Does working in COVID 19 units affect mental health status of healthcare workers during COVID 19 pandemic?
Imen Youssefi (Tunis, Tunisia), Islam Mejri Ep Ajl, Asma Riahi, Selsabil Daboussi, Samira Mhamdi, Chiраз Aichouaia, Zied Moatemri, Mhosen Khadhraoui

PA976 Forced Vital Capacity and Quality of Life: BOLD Study Cross-Sectional Analysis
Emmanouil Bagkeris (London, United Kingdom), Jaymini Patel, Christer Janson, Andre Amaral, Peter Burney

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)

PA977 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 Mchene, Doxa Kotzia

PA978 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, Saniye Girit

PA979 Correction of measurement error in a commercial multiple-breath washout device
Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreich, Bettina Frauchiger, Kathryn Ramsey, Philipp Latzin

PA980 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 Gourgouliannis, Athanasios Kadtis

PA981 Can lung function tests help identify functional phenotypes in children with asthma?
Sonila Borici (Tirana, Albania), Anxhela Gurakuqi, Ilir Akshija, Luljeta Serbo

PA982 Exhaled carbon monoxide 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

PA983 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 Gourgouliannis, Georgia Xiromerisiou

PA984 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

PA985 Relationships between asthma, obesity and OSAS severity in children
Nicole Beydon (Paris, France), Audrey Cesaire, Guillaume Mulier, Priscilla Boizeau

PA986 CO2 measurement in children’s polysomnography: is it worth it?
Rosário Ferreira (Lisbon, Portugal), Angela Drago, Angela Martins, Ana M Silva, Lia Oliveira
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)

PA996  
Collaborative care positively inverts the proportion of severe cases in the pulmonology clinic in the public health system: a Brazilian experience  
Marial Taube (Taubaté, Brazil), Denise Cotrim, Mariana Freire, William Salibe Filho, Sonia Martins, Rafael Stelmach

PA997  
Does introduction of a home oxygen service lead to healthcare cost savings?  
Charlotte Francis (Cambridge, United Kingdom), Claire Davey, Richa Singh, Jane Simpson

PA999  
Barriers and facilitators to asthma care for Malaysian Hajj pilgrims: a qualitative study  
Rizawati Ramli (LEMBAH PANTAI, Malaysia), Ee Ming Khoo, Su May Liew, Nik Sherina Haider Hanafi, Norita Hussein, Ping Yean Lee, Sazlina Shariff Ghazali, Ai Thong Cheong, Ahmad Ihsan Abu Bakar, Azah Abdul Samad, Suhazeli Abdullah, Hilary Pinnock, Sheik Aziz

PA1000  
Primary care management of asthma –findings from the Klang Asthma Cohort Study in Malaysia  
Norita Hussein (Kuala Lumpur, Malaysia), Norita Hussein, Rizawati Ramli, Izan Ishak, Bee Kiau Ho, Sallbiah Mohamad Isa, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Harzana Harun, Ahmad Ihsan Abu Bakar, Ping Yean Lee, A Thong Cheong, Sazlina Shariff Ghazali, Azainorsuzila Mohd Ahad, Yong Kek Pang, Asiah Kassim, Chiu-Wan Ng, Karuthan Chinnia, Parker Richard, Ee Ming Khoo, Hilary Pinnock, Aziz Sheikh

PA1001  
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 Ishak, Bee Kiau Ho, Sallbiah Mohamad Isa, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Harzana Harun, Su May Liew, Nik Sherina Hanafi, Ahmad Ihsan Abu Bakar, Ping Yean Lee, Ai Thong Cheong, Sazlina Shariff Ghazali, Azainorsuzila Mohd Ahad, Yong Kek Pang, Asiah Kassim, Chiu-Wan Ng, Karuthan Chinnia, Parker Richard, Ee 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 Sazlina, Hanzi Salim, Norita Hussein, Rizawati Ramli, Hilary Pinnock, Su May Liew, Nik Sherina Hanafi, Ahmad Ilhsan Abu Bakar, Azainorsuzila Mohd Ahad, Yong Kek Pang, Karuthan Chinna, Ee May 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 Enoces, Peymané 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

BISWAJIT PAUL (Vellore, India), Rita Isaac, Deepa Das, Thanmozhi Manti, 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 (Seinäjoki, 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), Vibeke 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 Garner, 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), Evdoxia Gogou, Charalampos Varsamas, Konstantinos Vogiatzidis, Aggeliki Psatha, Maria Pinaka, Dimitra Siachpazidou, Alexandra Sistou, Eleftherios Papazoglou, Despoina Kalouisi, Konstantina Vatzia, Kiraki Astara, Nikolaos Tsiouvakas, Sotiris Zorogiannis, 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 Òrts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Anders Helles Carlsen, Annelli Sandbaek, Anders Lokke

COPD DIAGNOSIS: DIFFERENCES ACCORDING GENDER

Mónica Marques Grafino (Montemor-O-Novo, Portugal), Filipa Todo-Bom, Jorge Cabral, Susana Clemente, João Valença, Ana Lutas, 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.
PA1016 Impact of COVID-19 and lockdown on TB care
Larisa Rusakova (Moscow, Russia), Sergey Sterlikov, Daria Kucheryavaya

PA1017 Species-specific Interferon-Gamma Release Assay for the diagnosis of Mycobacterium abscessus complex infection in Cystic Fibrosis patients.
Mathis Steindor (Essen, Germany), Florian Stelhing, Margarete Olivier, Jan Kehrmann, Margo Diricks, Florian Maurer, Peter Horn, Svenja Straßburg, Matthias Welsner, Silvagurnanathan Sutharsan, Monika Lindemann

PA1018 Pulmonary tuberculosis control: does COVID-19 have any effect?
Ana Rita Gigante (Vila Nova de Gaia, Portugal), Margarida Sousa, Ana Aguia, Marta Pinto, Rita Gaio, Raquel Duarte

PA1019 Co-infection of pulmonary tuberculosis and Covid-19
Zhanna Laushkina (Novosibirsk, Russia)

PA1020 Impact of COVID-19 on the course of pulmonary tuberculosis
Ekaterina Shishkina (Moscow, Russia), Leila Ergeshova, Anna Egorova, Natalia Evseeva, Tatiana Smirnova, Natalia Karpina

PA1021 The impact of SARS-CoV-2 pandemic on tuberculosis – the experience of Iasi County, Romania
Ionela-Alina Grosu-Creangă (Iasi, Romania), Adriana Sorete Arbore

PA1022 Tuberculosis/SARS-CoV-2 Co-infection: a Case Series
Miria Silva (Maceió, Brazil), Liana Macedo-Farsoun, Brivaldo Markman-Filho, Marcio Lima-Filho, Karina Veiga, Maruza Costa, Maria-Paula Athayde, Carlos Luna

PA1023 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

PA1024 Screening for tuberculosis in patients with COVID-19 infection in Georgia.
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Marika Erstavi, Marika Shurgaia, Lali Mikiashvili

PA1025 The impact of COVID-19 sanitary measures on tuberculosis outbreaks
Diogo Miguel Monteiro Canhoto (Coimbra, Portugal), Bárbara Ramos, António Jorge Ferreira, Paulo Cravo Roxo

PA1026 COVID19 coinfection exacerbates lung inflammation in TB patients.
Elina Shepelkova (Moscow, Russia), Vladimir Evtifeev, Ruslan Tarasov, Vilayat Aliyev, Mamed Bagirov, Yuriy Berezovskiy, Maria Isaeva, Vladimir Yeremeev

PA1027 Adverse events in the treatment of patients with pulmonary tuberculosis combined with diabetes mellitus and without it.
Oksana Komissarova (Moscow, Russia), Rizwan Abdullaev, Svetlana Aleshina

PA1028 A COMPARATIVE STUDY ON EFFECTS OF SUBSTANCE DEPENDENCE ON PULMONARY TUBERCULOSIS PATIENTS
Mainak Mukherjee (Hooghly, India), Susmita Kundu, Rivu Basu

PA1029 The influence of SARS-CoV-2 coinfection and active tuberculosis on the severity of the disease course and mortality.
Grzegorz Przybylski (Osielsko, Poland), Anna Kozaneczka, Marta Pilaczyńska-Cemel

PA1030 Characteristics of tuberculosis patients co-infected with COVID-19
Evgeny Belilovskiy (Moscow, Russia), Elena Bogorodskaya, Sergey Borisov, Elena Sumarokova, Olga Chizhova

PA1031 Taking care of TB in times of COVID-19 Global Pandemic
Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain), Naiara Martin Leria, Javier Poyo Molina, Miguel Angel Sanchez De Toro, Irantzu Elorza Sagasta, Clara Ortega Michel, Laura Tomás López, María Begoña Lahidalga Múgica, Jose Joaquin Portu Zapirain, Silvia Hernandez Crespo, Andrés Canut Blasco, José Luis Lobo Beristain

PA1032 Particularities of pulmonary tuberculosis during the COVID-19 pandemic
Emma Benjemia (Tunis, Tunisia), Khaoula Hemissi, Haifa Zaibi, Maram Mosbeh, Asma Allouch, Khadija Euchi, Jihen Ben Ammar, Hichem Aouina
Pre-congress content

Session 124

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), Chair to be confirmed

PA1034
Burden of co-morbid conditions in TB patients attending a tertiary care hospital in India
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Barney Isaac, Arunthathi Arjun, Deepa Shankar, Balamugesh Thangakunam

PA1035
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

PA1036
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

PA1037
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

PA1038
Association of hyponatremia with increased mortality in tuberculosis
Christina Bal (Wien, Austria), Daniela Gompelmann, Michael Krebs, Lukasz Antoniewicz, Claudia Guttmann, Christopher Milacek, Antje Lehmman, Maximilian Robert Gysan, Peter Wolf, Maiaa Jentus, Irene Steiner, Marco Idzko

PA1039
Risk of Tuberculosis reactivation during treatment with non TNFi/Biologics
Brit Haecker (Berlin, Germany), Tom Schaberg, Ralf Otto-Knapp, Albert Nienhaus, Christian Kneitz, Mario Fabri, Andreas Krause, Ulf Mrowietz, Torsten Bauer, Roland Diel

PA1040
Prevalence and diagnostic validity of chest tomography findings in patients with suspected active pulmonary tuberculosis
Angela María Giraldo Montoya (Pereira, Colombia), Giovanni 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), Tatjana Umpeleva, Diana Vakhruševa

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 Ashikhar, 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, Tatjana Smirnova, Svetlana Shishova, Natalya Karpina, Atadzan Ergeshov

PA1044
Clinico-radiological and bronchoscopic predictors of microbiological yield in sputum smear negative tuberculosis in Pakistan
Taymina Ejaz (Islamabad, Pakistan), Mahmood Malik, Jamal Ahmed, Rizwan Azam, Yousad 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 Chernikh

PA1046
Reliability of the evaluation of the results of computed tomography studies in disseminated pulmonary tuberculosis
Ekateryna Smetanina (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 Medvinsky, Alexey Demin, Elvira Telicina
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 Borysova, Dmytro Butov

Ocular tuberculosis – a case series
Carlos Lopes Figueiredo (Lisboa, Portugal), Mariana Silva, André Fabiano, Dionisio Maia, Joana Carvalho, Susana Carreira, Teresa Mourato, Filomena Nogueira, António Miguel, João Cardoso, Conceição Gomes

Simultaneous intraoperative correction of mediastinal pulmonary hernia in transternal occlusion of the main-stem bronchus in patients with advanced complicated destructive pulmonary tuberculosis
Ruslan Tarasov (Moscow, Russian Federation), Elena Krasnikova, Vilayat Aliev, Lidia Popova, Mamed Bagirov

Dynamics of capillary blood flow in the lungs after extrapleural silicone plombage in patients with advanced fibro cavernous pulmonary tuberculosis
Elena Krasnikova (Moscow, Russian Federation), Anatoly Sigaev, Mamed Bagirov, Rasul Amansahedov, Vilayat Aliev

Adverse effects analysis results during anti-TB treatment among hemodialysis patients
Olga Gordeeva (Moscow, Russian Federation), Natalya Karpina, Sofya Andreevskaya, Elena Larionova

Clinical and evolutif characteristics of pulmonary tuberculosis in elderly patients
Emma Benjemia (Tunis, Tunisia), Khayoula Hemissi, Haifa Zaibi, Asma Allouch, Khadija Euchi, Jihen Ben Ammar, Hichem Aouina

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, Eva Choong, Fabrizio Clarelli, Laurent Decosterd, Hans-Peter Grobbel, Jan Heyckendorf, Doris Hillemann, Harald Hoffmann, Barbara Kalsdorf, Hande Karaköse, Wiebke Knaack, Christina König, Antal Martinecz, Florian Maurer, Matthias Merker, Stefan Niemann, Markus Nowak, Charles A. Peloquin, Patricia Sanchez Carballo, Dugnar Schaub, Thomas Schön, Dominik Schwudke, Marga Teulen, Nick Verougstraete, Alain Verstraete, Franziska Waldo, Jim Werngren, Sebastian Georg Wicha, Christoph Lange

Pre-congress content Session 125 13:15 - 14:15

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

Chairs: William Stringer (Long Beach, United States of America), Raffaele Dellaca (Milano (MI), Italy)

Accuracy for DLco impairment through ventilatory efficiency indices in smokers without COPD.
Paulo Müller (Campo Grande (MS), Brazil), Gerson Orro, Gisele Barbosa, Erlandson Saraiva

The COPD Assessment Test and the modified Medical Research Council scale are not equivalent when related to the maximal exercise capacity in COPD patients.
Annalisa Frizzelli (Parma, Italy), Annalisa Frizzelli, Roberta Pisi, Marina Aiello, Luigino Calzetta, Panagiota Tzani, Laura Marchi, Giuseppina Bertorelli, Alfredo Chetta

Aerobic and breathing exercises on clinical control in subjects with asthma: a RCT
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

Daytime physical activity and sleep quality as related to patient-reported and physiological outcomes following severe COPD exacerbation
Rebecca DCruz (London, United Kingdom), Eui-Sik Suh, Georgios Kaltsakas, Rita Priori, Neeraj Shah, Amy Dewar, Abdel Douiri, Nicholas Hart, Patrick Murphy

Predictors of changes in 6-min walking distance following pulmonary rehabilitation in COPD patients: a retrospective cohort analysis
Yara Al Chikhanie (Dieulefit, France), Sébastien Baillly, Daniel Veale, Frédéric Hérengt, Samuel Verges

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
Peter Alter (Marburg, Germany), Tanja Lucke, Henrik Watz, Stefan Andreas, Kathrin Kahnert, Franziska Trudzinski, Tim Speicher, Sandra Söhler, Robert Bals, Tobias Welte, Klaus Rabe, Jörgen Vestbo, Emiel Wouters, Claus Vogelmeier, Rudolf Jörres
Comparative Ventilatory Inefficiency During Exercise Performance in COPD and CHF subjects.
Paulo Müller (Campo Grande (MS), Brazil), Gerson Orro, Gisele Barbosa, Erlandson Saraiva

Lactate dehydrogenase isoenzymes in patients with acute exacerbation of chronic obstructive pulmonary disease: An exploratory cross-sectional study
Vlasios Skopas (Kifissia attikis, Greece), Dimitrios Papadopoulos, Nikolaos Trakas, Eleni Papafostathiou, Charalampos Koufopoulos, Demosthenes Makris, Zoe Daniil, Konstantinos Gourgoulianis

Quality of life in COPD - does hyperinflation matter?
Inês Tavares Ladeira (Vila Nova de Gaia, Portugal), Pedro Oliveira, Liliana Campos, Ricardo Lima, Miguel Guimarães

The relationship between respiratory muscle dysfunction and serum vitamin D level in COPD patients
Angelina Suleymanova (Moscow, Russian Federation), Irina Baranova

High prevalence of COPD symptoms in the Tunisian population contrasting with low awareness of the disease
Lakhdar Nadia (Sousse, Tunisia), Landolsi Mounir, Myriam Denguizli

Brain-heart autonomic axis function across different clinical status and severity of COPD
Renata Mendes (Sao Carlos (SP), Brazil), Viviane Castello-Simões, Erika Zavaglia Kabbach, Nathany Souza Schafauser, Patricia Faria Camargo, Rodrigo Polaqui Simões, Alessandro Domingues Heibul, Mariana Brasil Da Cunha Martino Pereira, Nicole Marques Sgarbosa, Audrey Borghi-Silva

The chronic effects of narghile-use on males' cardiovascular response during exercise: a systematic review
Faten CHAIEB (Sousse, Tunisia), Helmi Ben Saad

Correlation of six minute walk test with spirometry in COPD patients
Prajwali Sarkar (Kolkata, India), Atin Dey, Somnath Bhattacharya, Rohini Chakrabarti

Ultrasound diaphragm activity in cystic fibrosis: a normative study
Fanny Gabrysz-Forget (Montreal, Canada), Anne-Catherine Maynard-Paquette, Aileen Kharat, Bruno-Pierre Dubé

Impact of moderate to late preterm birth on 5 year lung function in a South African birth cohort
Shakaika Chaya (Mokopane, South Africa), Rae Macginty, Carvern Jacobs, Zoltán Hantos, Shannon Simpson, Graham Hall, Heather Zar, Diane Gray

Eline Lauwers (Wilrijk, Belgium), Annemiek Snoeckx, Kris Ides, Kim Van Hoorenbreek, Maarten Lanclus, Wilfried De Backer, Jan De Backer, Stijn Verhulst

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. Mørth, 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 Vagheggi (Volterra (PI), Italy), Arli Veli, Chiara Veneroni, Lisa Perugin, Lucrezia Bertini, Sara Nasoni, Laura Carrozzi, 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: Stefano Nava (Bologna (BO), Italy), Javier Sayas Catalan (Madrid, Spain)
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 Quefflin, Johan Dupuis, Bouchra Lamia, Yann Combret, Clément Médrina

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, Katrina Curtis

Characteristics and outcomes of COVID-19 patients in an Italian sub-intensive care unit
Jacopo Davide Giamello (Busca, Italy), Sara Abram, Francesco Tosello, Giulia Paglietta, Emanuele Bernardi, Attilio Allione, Giulia Cavalot, Sara Bernardi, Luca Dutto, Fabrizio Corsini, Bartolomeo Lorenzati, Gianpiero Martini, Andrea Sciolli, Giuseppe 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, Stoja 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 Rosshdy, Gouri Koduri, Sriya Gokaraju, Patrice Ayuen, Nour Abuelela, Shashank Sharma, Dora Amran, Duncan Powrie

Timely start of HFNC treatment is beneficial for the outcome in COVID-19
Lemar Tokhi (Värnamo, Sweden), Mihovil Roglič, 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

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

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

Predictors of mortality in COVID-19 patients requiring CPAP
Muhammad Shafiq (Basilodon Essex, United Kingdom), Anoop Babu, Natalie Hassan, Ujaas Dawar, Marcus Pittman

Predictors of continuous positive airway pressure (CPAP) response in severe hypoxaemic respiratory failure due to COVID-19 pneumonitis
Jonathon Shaw (Greater Manchester, United Kingdom), Jonathon Shaw, Elizabeth Springate, Jospeh Thompson, William Euan Falconer, Hou Law, Georges Ng Man Kwong

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

Outcomes and characteristics of COVID-19 patients treated with CPAP/ HFNO outside of the Intensive Care setting
Dominic Sykes (Garforth, United Kingdom), Khairng Thuthu, Olly I Brown, Ahalya Parthasarathy, Michael G Crooks, Shoaib Faruqi

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
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

PA1098 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 Dacal 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-Cosio

PA1099 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, Marcella Dinic, Carina Oberhansli, Pietro Gianella, Michela Paronitti Lovera, Florian Charbonnier, Marlène Salamin, Pierre-Olivier Bridevaux, Christophe Von Garnier, Jörg D. Leuppi

PA1100 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

PA1101 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

PA1102 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

PA1103 Eosinophilic refractory inflammation in OCS-dependent severe asthma
Vitina Carriero (Orbassano, Italy), Francesca Bertolini, Elisa Arrigo, Fabio Luigi Massimo Ricciardolo

PA1104 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 Martin, Melchor Saiz, Bairon Paz, Amparo Benito, Luis Mejias, Laura Lopez Vilario, 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 Bulathsinghala, 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 (Glascow, 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 Kurukulaarachchi, 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 Synnøve Havstad Clemm, Ola Oranje Røksund, Haakon Kristian Kvidaland, Thomas Halvorsen, Maria Vollsæter, 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 Casanova, Joan B Soriano, Inmaculada Alfageme, Marc Miravitlles, Pilar De Lucas, Juan Jose Soler-Cataluña, Francisco García-Río, Jose Miguel Rodriguez Gonzalez-Moro, Guadalupe Sanchez-Herrero, Julio Ancochea

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 Maspéro, 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: ANDHI In Practice Study

Renaud Louis (Liège, Belgium), Pascal Chanez, Francesco Menzella, George Philtoes, Borja G Cosio, Njira L. Lugogo, Gustavo De Luiz, Tim Harrison, Annie Burden, Timothy Adlington, Nanna Keeling, Justin Kwiatek, 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: Diego Kauffmann-guerrero (Munich, Germany), Ilona Tietzova (Praha, Czech Republic)

LSC - 2021 - Mapping of Kras mutations during chemical carcinogenesis

Sabine J. Behrend (Munich, Germany), Magda Spella (magsp@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras, Rio), Mario A. A. Pepe (mario.pepe@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum,Munich), Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum,Munich)
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 Spiriopoulou, Foteini Kalogianni, Evangelia Tourkokristou, Ioanna Giopanou, Magda Spella, Mariamhi Iliopoulou, Aigli Korfiati, Konstantinos Theoillatos, Seferina Mavrouti, Theofilos Mantamadiotis, Torsten Goldmann, Sebastian Marwitz, Georgios T. Stathopoulos

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 Ampurdanes, Xavier Duran, Lara Pijuan, José Yélamos, Esther Barreiro

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

IGFIR facilitates implantation and progression of lung metastasis acting in the tumor microenvironment

Elvira Alfaro Arnedo (Logroño (La Rioja), Spain), Icíar P López, Sergio Piñeiro-Hermida, Marta Canalejo, Carlos Ruiz-Martinez, José G Pichel

The inhibition of caspase-11 could prevent lung cancer in smoking mice

Chiara Colarusso (Fisciano (SA), Italy), Michela Terlizzi, Aldo Pinto, Rosalinda Sorrentino

LSC - 2021 - Macrophages in lung adenocarcinoma

Giannoula Ntaliarda (Patra, Greece), Ioannis Lilis (ioanislilis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rio), Magda Spella (magsp@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rio), Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC) and Institute for Lung Biology and Disease (iLB), University Hospital, Ludwig-Maximilians University and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich)

LSC - 2021 - Preclinical evaluation of IL-1ß 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,Rio), Magda Spella (magsp@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rio), 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 (iLB), University Hospital, Ludwig-Maximilians University and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich)

Does acute phase protein alpha1-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

Lung Cancer Stem Cells From Lymph Nodes Aspirates Express Immunosuppressive Molecules

Agata Raniszewska (Warszawa, Poland), Iwona Kwiecien, Elzbieta Rutkowska, Rafal Sokolowski, Joanna Domagala-Kulawik

FGFR1 gene aberrations and FGFR1 protein expression in squamous non-small cell lung cancer (Sq-NSCLC).

Joanna Moes-Sosnowska (Warsaw, Poland), Adriana Rozy, Monika Skupinska, Urszula Lechowicz, Ewa Szczepulska-Wojcik, Renata Langfort, Marek Wieczorek, Aleksandra Stanczak, Joanna Chorostowska-Wynimko

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

Microbial analysis in lung cancer according to PD-L1 level and immunotherapy response

Hye Jin Jung (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

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 Roofchayee, Sharareh Seyfi, Esmaeil Mortaz

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

Identifying a tissue specific microRNA molecular signature in lung cancer

Antonia Tent (Cluj-Napoca, Romania), Ioana Berindan-Neagoe, Ioan Simon, Marioara Simon
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<td>Lung cancer biomarkers based on miRNA</td>
<td>Macarena Arroyo Varela (Malaga, Spain), Elena Espinosa García, Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, Rocío Bautista Moreno</td>
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<td>PA1133</td>
<td>LSC - 2021 - Regulation of PA200 in lung cancer</td>
<td>Ayse Seda Yazgili (München, Germany), Vanessa Welk (<a href="mailto:vanessa.welk@googlemail.com">vanessa.welk@googlemail.com</a> / Comprehensive Pneumology Center (CPC), University Hospital of the Ludwig-Maximilians-University (LMU) and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Max-Lebsche Platz 31, 81377, München), Thomas Meul (<a href="mailto:thomas.meul@helmholtz-muenchen.de">thomas.meul@helmholtz-muenchen.de</a> / Comprehensive Pneumology Center (CPC), University Hospital of the Ludwig-Maximilians-University (LMU) and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Max-Lebsche Platz 31, 81377, München), Christina Lukas (<a href="mailto:tina_lukas@web.de">tina_lukas@web.de</a> / Comprehensive Pneumology Center (CPC), University Hospital of the Ludwig-Maximilians-University (LMU) and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Max-Lebsche Platz 31, 81377, München), Ina Koch (<a href="mailto:ina.koch@asklepios.com">ina.koch@asklepios.com</a> / Asklepios Lung Clinic Munich-Gauting, 82131, Gauting), Elvira Stacher-Priehse (<a href="mailto:e.stacher@asklepios.com">e.stacher@asklepios.com</a> / Asklepios Lung Clinic Munich-Gauting, 82131, Gauting), Michael Lindner (<a href="mailto:michael.lindner@helmholtz-muenchen.de">michael.lindner@helmholtz-muenchen.de</a> / Asklepios Lung Clinic Munich-Gauting, 82131, Gauting), Georgios Stathopoulos (<a href="mailto:georgios.stathopoulos@helmholtz-muenchen.de">georgios.stathopoulos@helmholtz-muenchen.de</a> / Comprehensive Pneumology Center (CPC), University Hospital of the Ludwig-Maximilians-University (LMU) and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Max-Lebsche Platz 31, 81377, München), Silke Meiners (<a href="mailto:silke.meiners@helmholtz-muenchen.de">silke.meiners@helmholtz-muenchen.de</a> / Comprehensive Pneumology Center (CPC), University Hospital of the Ludwig-Maximilians-University (LMU) and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Max-Lebsche Platz 31, 81377, München)</td>
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<tr>
<td>PA1134</td>
<td>Efficiency of carbon nano tube (CNT) capture of blood circulating lung cancer cells</td>
<td>Rex Yung (Owings Mills, United States of America), Seyed Masoud Loeian, Jessica Moja, Rajeev Mehta, Ganesh Krishnan, John Park, Jeffrey Allard, Mark Mylinski</td>
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**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)

| PA1135 | Serum peristin and eotaxin-2 as promising biomarkers in asthmatic smokers. | Saher Farghly (Assiut, Egypt), Atfa Farouk El-Karn, Mahmoud Farouk Sherif, Mohamed Ismail Seddik, Safaa Abdelgayed, Mohammed Abdelghany |
| PA1136 | 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 Znakhurensko |
| PA1137 | Biomarkers for the management of severe asthma: a survey | Claudio Micheletto (S.Giovanni Lupatoto, Italy), Leonardo Antonicelli, Lorenzo Cecchi, Francesco Menzella, Adriano Vaghi |
| PA1138 | The role of asymmetric dimethylarginine (ADMA) in patients with asthma | Anton Shakhnavan (Ryazan, Russian Federation), Irina Nikitina, Oleg Uryasev |
| PA1139 | 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 |
| PA1140 | 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 Guissan, Renaud Louis, Benoit Pétet |
| PA1141 | An innovative high sensitivity tool for active neutrophil elastase quantification | Darragh McCafferty (Belfast (Belfast), United Kingdom), Sarah Johnston, Timothy Ferguson, Kelly Moffitt |
| PA1142 | 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 |
PA1143 Development of the first protease multiplex immunoassay for active neutrophilic serine protease biomarkers
Darragh McCafferty (Belfast (Belfast), United Kingdom), Kelly Moffitt, Timothy Ferguson

PA1144 Correlation of serum levels of matrix-metalloproteinase-9, cyclo-oxygenase-2, and prostaglandin-E-2 in Chronic obstructive pulmonary disease(COPD)
Ajay 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

PA1145 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 Kostiakas

PA1146 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

PA1147 Copeptin – a marker for differential diagnosis between acute exacerbation of COPD and heart failure in patients with acute dyspnea
Ventsislava Pencheva Genova (Sofia, Bulgaria), Victor Manolov, Ognian Georgiev

PA1148 Serum Levels of Adipolin in Stable and Acute Exacerbation of Chronic Obstructive Pulmonary Disease
Hassan Ghobadi-Marallu (Ardabil, Islamic Republic of Iran), Mohammad Reza Aslani, Mojtaba Amani, Faranak Moghadas

PA1149 Relationship between systemic inflammation and rhythmicity of acute exacerbations of COPD
Ahmed Ben Saad (Monastir, Tunisia), Asma Migaou, Rania Kaddoussi, Nesrine Fahem, Samah Joobeur, Saousen Cheikh Mhamed, Naceur Rouatbi

PA1150 Study of microalbuminuria in COPD patients and its association with cardiac comorbidities
UTKARSH KHATTIREE (Meerut, India), Lalit Singh, Rajeev Tandon, Geeta Karki, Nida Choudhry

PA1151 A specific monoclonal antibody targeting C-36 peptide of alpha1-antitrypsin as a tool in respiratory research
Srinu Tumpara (Hannover, Germany), Srinu Tumpara, Elena Korenbaum, Tobias Welte, Beatriz Martinez Delgado, Sabina Janciauskiene

PA1152 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

PA1153 Breathing rhythm does not influence exhaled volatile organic compound profile analyzed by an electronic nose.
Silvano Dragonieri (Bari (BA), Italy), Vittaliano Nicola Quaranta, Enrico Buonamico, Fabrizio Diaferia, Giovanna Elisiana Carpanzano

PA1154 Measurements of upper and lower airway nitric oxide in healthy adults
Balázs Csoma (Budapest, Hungary), Filippa Beringer, Gergö Szücs, Veronika Müller, Zsófia Lázár

**Pre-congress content**

**Session 130**

**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 (Ithame (Oxfordshire), United Kingdom), James Tonkin, Anand Devaraj, Keir E J Philip, Christopher M Orton, Su'adj R Desai, Pallay L Shah

**PA1156 Post-discharge persistent symptoms after hospitalization for COVID-19**
Mohamed aymen Jebali (Tunis, Tunisia), Hana Bilbech, Aymen Jebali, Houda Snene, Donia Belkhir, Mariem Maalej, Safa Kerkeni, Mariem Trabelsi, Ahmed Laater, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir
Predicting factors of pulmonary functional sequelae in COVID-19 patients after 4 months from hospital admission
Annalisa Frizzelli (Parma, Italy), Annalisa Frizzelli, Marina Aiello, Lugino Calzetta, Pier Anselmo Mort, Laura Marchi, Veronica Alfieri, Nicola Sverzellati, Maria Majori, Alfredo Chetta

Mental disorders in patients (pts) with COVID-19 pneumonia: comparison with COPD exacerbation
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Yuliia Huba, Tetyana Pertseva, Lyudmyla Konopkina, Olha Shchudro

Influence of COVID-19 pneumonia on development of mental disorders
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Yuliia Huba, Tetyana Pertseva, Lyudmyla Konopkina, Olha Shchudro

Respiratory Physiological Sequelae following Coronavirus Infection: A Systematic Review
Ketan Patel (Colchester, United Kingdom), Christopher C. Huntley, Shahnoor-E-Salam Bushra, Farah Moebed, Peter S Burge, Alice M Turner, Gareth I Walters

Peculiar high resolution computed tomography patterns in post-covid fibrosis
Richa Tyagi (Lucknow (UP), India), Surya Kant, Darshan Bajaj, Anit Parihar

Quality of life of patients three months after COVID-19 hypoxic pneumonitis
Houda Snène (Tunis, Tunisia), Issraa El Wadhane, Hana Blibeche, Safa Kerkeni, Meriem Trabelsi, Wafa Fenina, Meriem Maalej, Aymen Jebali, Nadja Ben Salah, Bechir Louzir

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 Tamm, Daiana Stolz

Predictors of mental health disorders in health workers during COVID-19 pandemic
Rihab Jebali (ARIANA, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Hafaoua Daighfous, Fatma Tritar

Insomnia in COVID-19 survivors: prevalence, severity and associated factors
Warda Jelassi (TUNIS, Tunisia), Abir Hedhli, Cyrine Echeikh, Meriem Mjid, Yacine Ouahchi, Samira Merai, Sonia Toujami, Besma Dhahri

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

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 Balestrero

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 Kuljič, 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 Steiger, Severin Wittmer

Patterns of dyslipidaemia in postCOVID19 follow up patients; food for thought
Irmak Bracka (GALATSI ATHENS, Greece), Irmak Bracka, Ioannis Machairas Sallas, Spyridon Mazarakis, Christina Gkriouk, Elii Keramida, Andreas Paraskevas, Eleni Bellou, Theodoros Daskalos, Ioannis Karmpanis, Panagiotis Demertzis, Venia Papagiannopoulou, Georgios 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 Barmparessou, Stamatoula Tsikrika, Andreas Adraktas, Athanasia Pataka, Ilia 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 Loivos, Domenico Capone, Maria Izabel Santos, Alexandre Cardoso, Fernanda Mello
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

Tag(s): Clinical

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

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 Sutthakhun, 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, Erika Christina Gouveia-Silva, Rafaella Fagundes Xavier, Daniele Brancolini Oliveira, Luciana Cassimiro, Vinicius Iamonti, Carlos Toufen Jr, Carlos R 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 Kumalan, Allan Victor, Lars Pedersen, Helle Frost Andreasen, Barbara Jolanta Jørgensen, Hanne Heeboll, Michael Brun Andersen, Lisbeth Mørner, Carsten Høedersdal, Sisse Bolm Ditlev, Celeste Forsbjerg, Thérèse Lapperre
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, Reim Posthumu, Frits Franssen, Bita Hajian, Herman Vijnbrief, Yvonne Spies, Alex Van T Hul, Daisy Janssen, Martijn Spruit

Post-Discharge Telehabilitation Practices In Covid-19 Patients
Esra Pehlivan (İstanbul, Turkey), İsmail Palalı, Sibel Gayretli, Demet Turan, Halit Çınarka, Erdoğan Çetinkaya

PULMONARY REHABILITATION IN INDIVIDUALS POS-ACUTE COVID-19 INFECTION: PRELIMINARY RESULTS
Rafaelia Xavier (São Paulo (SP), Brazil), Caroline Godoy, Erika Gouveia E Silva, Vinicius Iamonti, Jose Eduardo Pompeu, Carlos Toufên Jr., Carlos Carvalho, Celso Carvalho

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

Late Breaking Abstract - Physical activity-related aspects of individuals with COPD in social isolation due to the COVID-19 pandemic.
Nidia Aparecida Hernandez (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

Late Breaking Abstract - Physical activity recovery in patients with COVID-19 infection included in pulmonary rehabilitation
Marieke Wuyts (Leuven, Belgium), Marieke Wuyts, Stephanie Everaerts, Yannick Vande Weygaerde, Bihiyga Salhi, Fien Hersmans, Eric Derom, Natalie Lorent, Wim Janssens, On Behalf Of Leuven-Gent Pulmonary Rehabilitation Teams

Introduction

Safety, pharmacokinetics, and pharmacodynamics of TD-8236, an inhaled pan-JAK inhibitor, following single- and multiple-ascending doses in healthy volunteers and mild asthmatics
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

Inhaled JAK inhibitor GDC-4379 reduces FeNO in patients with mild asthma
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

Phase 1 study of a novel, prolonged-action anti-IL-5 monoclonal antibody in asthma
Dave Singh (Manchester, United Kingdom), Ranindu Fuhr, Nicholas Bird, Sarah Mole, Kelly Hardes, Yau Lun Man, Anthony Cahn, Steven Yancey, Isabelle Pouliquen

Effect of tezepelumab on the proportion of exacerbation-free patients with severe, uncontrolled asthma in NAVIGATOR
Stephanie Korn (Mainz, Germany), Arnaud Bourdin, Geoffrey Chupp, Gene Colice, Christopher S Ambrose, Kamil Kmita, Jean-Pierre Llanos-Ackert, Nestor Molfino, Bill Cook

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)
Surinder S. Birring (London, United Kingdom), Jaclyn A. Smith, Alyn H. Morice, Mandel Sher, James H. Hull, Alan B. Goldsobell, Sylvain Lanouette, Ella Li, Laurent Harvey, Catherine M. Bonuccelli

Intravenous iron replacement improves exercise tolerance in COPD: A randomised trial
Clara Martin Ontiyuelo (Barcelona, Spain), Anna Rodó Pin, Daniel Echeverría Esnal, Mireia Admetlló, Xavier Duran Jordà, Joaquim Gea, Esther Barreiro, Diego A. Rodriguez-Chiaradia
**Durability of Zephyr Valve treatment: 24-month follow-up in the TRANSFORM Study**


**Discussion**

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 Wuyts (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 Veitsmans, Marc Hoffgen, Phillen Maqhuza, Larisa Schwarzkopf, Andreas Hellmann, Michael Pfeifer, Jürgen Behr, Rainer Karpavicius, Andreas Günther, Felix J. F. Herth, Philipp Markart

**OA1207 STARLINER study, disease behaviour assessed by a wide range of parameters including patient-reported outcomes (PRO) results**
Elisabeth Bendstrup (Aarhus N, Denmark), Marlies S. Wijnenbeek, Claudia Valenzuela, Michael T. Henry, Monica Bengus, Frank Gilberg, Klaus-Uwe Kirchgaessler, Carlo Vancheri

**OA1208 Profile of antimicrobial peptides in the bronchoalveolar lavage of patients with interstitial lung diseases**
Ruben Osuna Gómez (Barcelona, Spain), Ruben Osuna Gómez, Sandra Orozco Echevarria, Paloma Millán Billi, Silvia Vidal Alcorisa, Diego Castillo Villegas

**OA1209 LSC - 2021 - The effect of long-term personal air pollution exposure on the inflammatory mediators in Idiopathic Pulmonary Fibrosis**
Ioannis Tomos (Athens (P. Falirou), Greece), Konstantina Dimakopoulou (kdimakop@med.uoa.gr / Department of Hygiene, Epidemiology and Medical Statistics, Medical School, National and Kapodistrian University of Athens,Athens), Effrosyni Manali (fmanali@otenet.gr / 2nd Pulmonary Medicine Department, Medical School, National and Kapodistrian University of Athens, “ATTIKON” University Hospital, Haidari), Anna Karakatsani (skaravats-t@med.uoa.gr / 2nd Pulmonary Medicine Department, Medical School, National and Kapodistrian University of Athens, “ATTIKON” University Hospital, “This research is co-financed by Greece and the European Union (European Social Fund-ESF) through the Operational Programme “Human Resources Development, Education and Lifelong Learning 2014-2020 in the context of the project “The effects of air pollution exposure on patients with idiopathic pulmonary fibrosis” (MIS 5048157).”)

**OA1210 Prevalence and clinical associations of myositis antibodies in a large cohort of interstitial lung diseases**
Sofia A. Moll (Nieuwegein, Netherlands), Mark Platenburg, Anouk Platteel, Renske Vorselaars, Montse Bonàs, Raisa Kraaivanger, Claudia Roedoen-Benschop, Bob Meek, Coline Van Morsel, Jan Grutters

**OA1211 Validation of the artificial intelligence software to detect chronic fibrosing interstitial lung diseases in chest X-ray**
Hirotaka Nishikiori (Sapporo, Japan), Kencchi Hirota, Tomohiro Suzuki, Yuso Takagi, Seiwa Honda, Kimiyuki Ikeda, Yuki Mori, Yuichiro Asai, Naoya Yama, Hirofumi Ohnishi, Masamitsu Hatakenaka, Hirofumi Chiba

**OA1212 Discussion**
Aim: 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 Bhattachari (Launceston, Australia), Wenyung 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), Wenyung 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 González-Pérez, Olaia Sardón, Elena Martin-Gonzalez, Elena Mederos-Luis, Paula Corcuera, Inmaculada Sánchez-Machín, Paloma Poza-Guédes, 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 SUTDY
Noemi Cerón Pisa (Palma, Illes Balears, Spain), Amanda Iglesias Coma, Francisco Javier Verdú Rivera, Josep Muncunill Farreny, Jaume Sauleda Roig

OA1220 Impact of prematurity on rabbit lung development: a key factor for mimicking chronic neonatal lung disease
Matteo Storti (Parma, Italy), Francesca Ricci, Costanza Casiarghi, Chiara Catozzi, Francesca Ravanello, Luisa Ragionieri, Roberta Cicciramaro, Matteo Zoboli, Gino Villetti, Maurizio Civelli, Fabrizio Salomone, Barbara Montanini, Simone Ottonello

OA1221 Diagnosis of Primary Ciliary Dyskinesia: a multi-center experience
Rim Hijji (Münster, Germany), Sandra Cindric, Heike Olbrich, Petra Pennekamp, Niki T. Loges, Gerard W. Dougherty, Julia Wallmeier, Johanna Raidt, Heymut Omran

OA1222 Arterial remodelling in patients with idiopathic pulmonary fibrosis (IPF) and the possible role of endothelial to mesenchymal transition (EndMT)
Archana Gaikwad (Launceston (TAS), Australia), Wenyung Lu, Surajit Dey, Prem Bhattachari, 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

OA1223 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 Aliée, Bart Lambrecht, Maarten Van Den Berge, Rudi Hendriks, Gerard Koppelman, Louis Bont, Martijn Nauwijn

OA1224 Discussion

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): | Pulmonary vascular diseases | Sleep and breathing disorders | Paediatric respiratory diseases

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 (Vinnysia, Ukraine), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

14:45 Introduction

14:50 The World Health Organization actions on digital health for tuberculosis: perspectives for respiratory medicine
Dennis Falzon (Genève, Switzerland)

15:05 Artificial intelligence in the clinic: possible roles for pulmonary rehabilitation tests
Wim Janssens (Leuven, Belgium)

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

Studio Barcelona Session 137 14:45 - 16:15

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).

Disease(s): Respiratory infections

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

Tag(s): Clinical

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

Chairs: Daiana Stolz (Basel, Switzerland), Tobias Welte (Hannover, Germany)

14:45 Introduction

14:50 Bronchiectasis: state-of-the-art diagnostic and therapeutic approaches
Amelia Shoemark (Dundee (Angus), United Kingdom)

15:05 Antibiotic resistance in respiratory infections: challenges and actions for the upcoming decade
Michal Shteinberg (Haifa, Israel)

15:20 Has the time come to shorten TB treatment and TB preventive therapy?
Cécile Magis-Escurra (Nijmegen, Netherlands)

15:35 The challenges of severe pneumonia: new pathogens, new drugs and new formulations
Michael S Niederman (New York, United States of America)

15:50 Discussion and Q&A

Studio London Session 138 14:45 - 16:15

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 The next mesothelioma frontiers: 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

Studio Munich
Session 139  14:45 - 16:15
Hot topics: Environment, air pollution, health and respiratory disease

Aims : To discuss the need for clean air by patients with asthma and allergies; to explain the impact of air pollutants on the early origins of airway disease; to present the main effects of heat on health and its interaction with air pollution; to explain the link between inhaled therapies and pollution.
Method(s) : Epidemiology  Public health
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training
Chairs : Richard Costello (Dublin 9, Ireland), Raquel Duarte (Porto, Portugal)

14:45 Introduction
14:50 The need for clean air: asthma and allergy
  Barbara Hoffmann (Düsseldorf, Germany)
15:05 Air pollutants: mechanisms in the early origins of airway disease
  Silvia Carraro (Padova (PD), Italy)
15:20 Beyond heat stroke: effects of heat on health
  Ana M Vicedo-Cabrera (Bern, Switzerland)
15:35 Inhaled therapies: plastics, propellants, and pollutants
  Omar S. Usmani (London, United Kingdom)
15:50 Discussion and Q&A

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 reflexion 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)

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<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>14:45</td>
<td>Introduction</td>
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<tr>
<td>14:50</td>
<td>Presentation of cases by the session facilitator</td>
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<td>14:50</td>
<td>Luke Howard (London, United Kingdom)</td>
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<td>14:50</td>
<td>Case 1 - Author: Elif Agaoglu, United Kingdom</td>
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<td>14:50</td>
<td>Case 2 - Author: Shweta Anand, India</td>
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<td>14:50</td>
<td>Case 3 - Author: Marta Alexandra Carvalho Da Silva, Portugal</td>
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<td>14:50</td>
<td>Case 4 - Author: Nemsi Ella, Tunisia</td>
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<td>16:10</td>
<td>Session wrap-up</td>
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**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)

**OA1256** Introduction

**OA1257** Use of low tidal volume ventilation (LTVV) has an association with outcome in COVID-19 patients
Sunny Nijbroek (Amsterdam, Netherlands), Dimitri Ivanov, Liselotte Hol, Markus Hollmann, Ary Serpa Neto, Marcus Schultz, Frederique Paulus

**OA1258** 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

**OA1259** 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

**OA1260** Ventilation management and clinical outcomes in invasively ventilated patients with COVID-19 from CIBERESUCICOVID study
Antoni Torres Marti (Barcelona, Spain)

**OA1261** Impaired ventilation is not independently associated with 28-day mortality in coronavirus disease 2019 (COVID-19) acute respiratory distress syndrome (ARDS)
Luís 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

**OA1262** 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

**OA1263** 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

Convalescent plasma in severe COVID-19: a randomized, double-blind, placebo-controlled trial
Max O'Donnell (Brooklyn, United States of America)

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, María Pilar Martíalay, Javier Taboada, Sergio De La Torre, Miguel Sampayo-Cordero, Andrea Malfettone, Antonio Llombart-Cussac, Javier Cortés

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, María Pilar Martíalay, Javier Taboada, Sergio De La Torre, Miguel Sampayo-Cordero, Andrea Malfettone, Antonio Llombart-Cussac, Javier Cortés

15:30-16:15
INDUSTRY SKILLS LAB WORKSHOP

Channel 1

Session 143

16:00 - 18:00

Language session: Spanish/Portuguese programme 2021
A joint ERS/ALAT/ASSOBRAFIR/SBPT/SEPAR/SPP session

Aims: To review the relationship between chronic obstructive pulmonary disease and pulmonary embolism; to explain the relationship between sleep apnoea and cancer; to provide an update on the management of parapneumonic pleural effusions; to describe the evolution of the use of bronchoscopy in the era of COVID-19; to provide an update on pulmonary rehabilitation after overcoming COVID-19.

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

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

Tag(s): Basic science, COVID

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon

Chairs: Carlos Andres Jimenez Ruiz (Madrid, Spain), Irma De Godoy (BOTUCATU, Brazil), Mark Cohen Todd (Guatemala City, Guatemala), Daniel Da Cunha Ribeiro (Belo Horizonte (MG), Brazil), António Manuel Morais (Maia, Portugal)

16:00 Introduction
16:05 Chronic obstructive pulmonary disease and pulmonary embolism
David Jiménez Castro (Madrid, Spain)

16:20 Relationship between sleep apnoea and cancer
Miguel Ángel Martínez García (Valencia, Spain)

16:35 Update on the management of parapneumonic pleural effusions
Lisete Teixeira (São Paulo, Brazil)

16:50 Discussion and Q&A

17:03 Bronchoscopy in the COVID-19 era
Fernando António Teixeira Guedes Rodrigues (Luxembourg, Luxembourg)

17:18 Acute management of COVID-19
Francisco Arancibia Hernandez (Santiago de Chile, Chile)

17:33 Pulmonary rehabilitation after COVID-19
Vinicius Zacarias Maldaner Da Silva (Brasilia (DF), Brazil)

17:48 Discussion and Q&A

Studio Amsterdam

Session 144

16:15 - 16:30

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 Verkleij (Amsterdam, Netherlands), Dennis Falzon (Genève, Switzerland)
**Studio Barcelona**

**Session 145**  
16:15 - 16:30

Breakout room: 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)

**Studio London**

**Session 146**  
16:15 - 16:30

Breakout room: Symposium, Diagnostic and therapeutic advances in mesothelioma care  
**Chairs:** Lucia Carolina Viola Muñoz (Bogotá, Colombia), Françoise Galateau-Salle (Lyon, France), Jens Soerensen (Copenhagen, Denmark), Till Markowiak (Regensburg, Germany), Isabelle Opitz (Zurich, Switzerland)

**Studio Munich**

**Session 147**  
16:15 - 16:30

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)

**Studio Paris**

**Session 148**  
16:15 - 16:30

Breakout room: Lungs on fire: LoF Pulmonary vascular diseases?  
**Chairs:** Alguili Elsheikh (Basildon, United Kingdom), Luke Howard (London, United Kingdom)

**Channel 2**

**Session 149**  
16:30 - 18:00

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)

**A1281 Introduction**  

**OA1282 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

**OA1283 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 Galbán, 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 Krishnan, Victor Ortega, Robert Paine Iii, Prescott Woodruff, Meilan Han

**OA1284 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

**OA1285 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, Jorgen Vestbo, Morten A. Karsdal, Diana J. Leeming

**OA1286 Salivary microbiota composition is associated with severe exacerbations**  
Sara Melo-Dias (Aveiro, Portugal), Carla Valente, Lilia Andrade, Alda Marques, Ana Sousa

**OA1287 Exhaled breath analyses in bronchial thermoplasty for severe asthma**  
Pieta Wijsman (Amsterdam, Netherlands), Paul Brinkman, Annika Goorisenberg, Lieuwe Bos, Julia D’Hooghe, Els Weersink, Anke-Hilse Maitland-Van Der Zee, Jouke Annema, Peter Bonta
OA1288 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

OA1289 Treatable traits in the NOVELTY study: prevalence, patterns and relationship with physician-assessed severity
Alvar Agustí (Barcelona, Spain), Eleni Rapsomaniki, Richard Beasley, Rod Hughes, Haná Müllervá, Alberto Papi, Ian D Pavord, Rosa Faner

OA1290 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 Dukanovic, Fan Chung, Ian Adcock, Sven-Erik Dahlen, Ubiopred Study Group

OA1291 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

OA1292 Discussion

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)

OA1293 Introduction

OA1294 Infant lung function and physical activity in pregnancy
Hrefn Katrín Gudmundsdóttir (Oslo, Norway), Oda C. L. Carlsen, Karen Eline Stensby Bains, Martin Färdig, Kai-Håkon Carlsen, Gutorm Haugen, Christine M. Jonassen, Marissa Leblanc, Björn Nordlund, Eva Maria Reh binder, Håvard O. Skjerven, Anne Cathrine Staff, R尼亚s Vettukattil, Karin C. Lodrup Carlsen

OA1295 Impulse oscillometry findings compared to spirometry in patients with neuromuscular disorders
Ji Soo Park (Seoul, Republic of Korea), Ji Hyun Kim, Min Joon Kim, Yun Jung Choi, Jong-Hee Chae, Dong In Suh

OA1296 Fluctuation analysis of FEV1 in children and adolescents with controlled asthma
Sotirios Fouzas (Patras, Greece), Irini Sofia Frima, Dimos Gidaris, Nikolaos Karantaglis, Grigorio Chatziparasidis, Ilias Theodorakopoulos, Michael B Anthracopoulos, Urs Frey

OA1297 Infant tidal flow-volume parameters and arousal state
Martin Färdig (Solna, Sweden), Karen Eline Stensby Bains, Hrefn Katrín Gudmundsdóttir, Catarina Almqvist, Kai-Håkon Carlsen, Gunilla Hedlin, Björn Nordlund, Cilla Söderhäll, Håvard Ove Skjerven, R尼亚s Vettukattil, Karin Cecile Lodrup Carlsen

OA1298 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 Chrrousos, Christina Kanaka-Gantenbein

OA1299 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, Olivier Bruni, Secil Aydinoz, Rene Cortese, Leila Kheirandish-Gozal

OA1300 Later lung function in birthweight discordant monozygotic twins
Yasmin Salem Mahmoud (Bern, Switzerland), C. Corin Willers, Sofia Alyidi-Mohr, Anne-Christianne Kentgens, Philipp Latzin, Luigi Raio, Sophie Yammine

OA1301 Spirometry forced expiratory time is driven by central airway obstruction in asthmatic children
Nicole Beydon (Paris, France), Florence Coquelin, Marc Koskas

OA1302 Novel indices to improve the diagnostic ability of nocturnal oximetry in children with OSA
Sotirios Fouzas (Patras, Greece), Panagioti Plota, Aris Bertozoumis, Konstantinos Kouralis, Magdalini Tsiakou, Panagiotis Plotas, Aris Bertozoumis, Konstantinos Mourzouchos, Athanasios Asimakopoulos
Channel 4  
Session 151  
16:30 - 18:00

Oral presentation: Bronchiectasis heterogeneity: assessing the endotypes

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): Cell and molecular biology  General respiratory patient care  Epidemiology  Pulmonary function testing

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

Chairs: Pieter Goeminne (Bornem, Belgium), Lucy Morgan (Sydney (NSW), Australia)

OA1305  Introduction

OA1306  The bronchiectasis ‘bacteriophagome’
Michaël Mac Aogáin (Singapore, Singapore), Fransiskus Xaverius Ivan, Tavleen Jagg, Holly R. Keir, Alison J Dicker, Albert Lim Vick Hou, Mau Ern Poh, Martina Oriano, Mariko Siuye Koh, Ong Thun How, Augustine Tee, Teck Boon Low, John Arputham Abiseghnamaden, Stefano Aliberti, Francesco Blasi, James D Chalmers, Sunjay H Chotirmall

OA1307  Characterisation of eosinophilic bronchiectasis: A European multicohort study
Amelia Shoemark (Dundee (Angus), United Kingdom), Michal Shteinberg, Anthony De Soyza, Charles Haworth, Hollian Richardson, Lidia Perea, Alison Dicker, Pieter C Goeminne, Erin Cant, Eva Polverino, Josje Altenburg, Holly R Keir, Michael R Loebinger, Francesco Blasi, Tobias Welte, Oriol Sibila, Stefano Aliberti, James D Chalmers

OA1308  The microbiology of stable bronchiectasis: data from the EMBARC bronchiectasis registry

OA1309  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. Loebinger, Mary Carroll, Timothy Gatheral, Anthony De Soyza, James Chalmers, Christopher Johnson, John R Hurst, Jeremy Brown, Judy M. Bradley, Michael M. Tunney

OA1310  Sputum neutrophil elastase and inhaled antibiotic response in bronchiectasis: a post-hoc analysis of the ORBIT-4 trial
Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Hollian Richardson, Thomas Pembridge, Yonghua Gao, Pieter C Goeminne, Charles S Haworth, James D Chalmers

OA1311  Mapping inflammatory endotypes of bronchiectasis associated with impaired mucociliary clearance
Mathieu Bottier (Dundee, United Kingdom), Erin Cant, Liliana Delgado, Diane M Cassidy, Yan Hui Giam, Alexandra 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

OA1312  Inhaled corticosteroids use in patients with bronchiectasis: Data from the EMBARC registry
Eva Polverino (Barcelona, Spain), James D. Chalmers, Stefano Aliberti, Charles Haworth, Francesco Blasi, Wim Boersma, 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

OA1313  Salivary proinflammatory cytokines and airway bacterial infection in Bronchiectasis
Lidia Perea Soriano (Barcelona, Spain), Rosa Faner, Belen Solarat, Alvar Agusti, Oriol Sibila

OA1314  Immunometabolic markers and the sputum microbiome in bronchiectasis
Yan Hui Giam (Dundee (Angus), United Kingdom), Hollian Richardson, Alexandra Smith, Holly R. Keir, Diane Cassidy, Simon Finch, Stefano Aliberti, Oriol Sibila, Amelia Shoemark, James D. Chalmers

OA1315  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
Anna Schnell (Bern, Switzerland), David M. Lowe, Stefanie Graeter, Mehmet Davrani, Siobhan O. Burns, Alexander Schaumb, Mortiz Saxenhofer, Maria Hauswald, Carolin Witte, Clara Leboeiro, Fernando Moreira, Irina Iricheeva, Ilka Schulze, Cedric Vonarburg, Annette Feussner

OA1316  Discussion
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

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

**Chairs:** Guy Marks (Sydney (NSW), Australia), Vanessa Garcia-Larsen (Baltimore, United States of America)

**OA1317 Introduction**

**OA1318 Longitudinal modelling of lung function trajectories from childhood to early adulthood in the BAMSE cohort**

**OA1319 Do chronic obstructive lung diseases increase long-term mortality in Helsinki area - An Epilung study**
Juuso Jalasto (Helsinki, Finland), Paula Kauppi, Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Bo Lundbäck, Anssi Sovijärvi, Päivi Piirilä

**OA1320 Father's prepuberty overweight and adult lung function and height in future sons**
Marianne Lønnebotn (Bergen, Norway), Lucia Calciano, Michael Abramson, Bryndis Benediktsdóttir, Lennart Bråbäck, Karl A. Franklin, Mathias Holm, Nils Oskar Jögi, Ane Johansson, Jorunn Kirkeleit, Andrei Malinovschi, Raul Godoy Mayoral, Antonio Pereira-Vega, Vivi Schläpfer, Shyamali Dharmage, Simone Accordini, Francisco Gómez Real, Cecilie Svanes

**OA1321 Early life risk factors for asthma from childhood until age 28 years**
Linnéa Almqvist (Boden, Sweden), Martin Andersson, Helena Backman, Eva Rönmark, Linnea Hedman

**OA1322 Urinary caffeine and caffeine metabolites and lung function in a nationwide study of U.S. adults**
Yueh-Ying Han (Pittsburgh, United States of America), Erick Forno, Juan Celedon

**OA1323 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

**OA1324 Risk factors associated with severe COVID-19 in asthma. A report from the Swedish National Airway Register**

**OA1325 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

**OA1326 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

**OA1327 Late Breaking Abstract - Childhood farming environment: Association to age at asthma diagnosis in a population-based study**
Heidi Andersén (Vaasa, Finland), Pinja Ilmarinen, Jasmin Honkamäki, Leena E Tuomisto, Hanna Hisinger-Mölkänen, Helena Backman, Bo Lundbäck, Eva Rönmark, Lauri Lehtimäki, Anssi Sovijärvi, Päivi Piirilä, Hannu Kankaanranta

**OA1328 Discussion**

**16:30-17:15**
**INDUSTRY SKILLS LAB WORKSHOP**
**SEE PAGE 1**

**Studio Amsterdam**

**Session 154**

**Symposium: 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 (Vinnysia, 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

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.
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)

16:30  Introduction
George O'Connor (Boston, United States of America)

16:35  Role of the microbiome and antibiotic therapy in IPF
Andrew Wilson (Norwich (Norfolk), United Kingdom)

16:50  Management of refractory dyspnoea in COPD
Daisy J.A. Janssen (Horn, Netherlands)

17:05  Update on lung cancer screening with low-dose CT
Rafael Meza (Ann Arbor, United States of America)

17:20  Pulmonary embolism in patients with COPD
Francis Couturaud (Brest, France)

17:35  Discussion and Q&A

17:55  Conclusions
George O'Connor (Boston, United States of America)
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)

Channel 6  
Session 159  
16:30 - 18:00

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 Odqvist (Mölndal, 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 Ciccotosto (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 Calvén (Gothenburg, Sweden), Jenny Calvén, Christopher Mccrae, Carina Malmhäll, Kristina Johansson, Henric Olsson, Madeleine Rådinger

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. Mudiyanselage, Wim Timens, Maarten Van Den Berge, Pieter S. Hiemstra
Dysregulation of ZFP36L1 and ZFP36L2 in severe asthma alters epithelial integrity and dampens genome-wide glucocorticoid responses
Rocio Teresa Martinez-Nunez (London, United Kingdom), Jennifer Rynne, Elena Ortiz-Zapater, Manuela Plate, Rachel Chambers, Peter Howarth

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 Schamberger, Clemens Ruppert, Andreas Guenther, Jürgen Behr, Anne Hilgendorff, Stefanie Hauck, Heiko Adler, Claudia Alma Staab-Weijnnitz

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

Late Breaking Abstract - A multiomic micro- and macro-anatomical cell atlas of the human lungs and airways

17:30-18:15
INDUSTRY SKILLS LAB WORKSHOP

Studio Amsterdam
Session 161
18:00 - 18:15
Breakout room: Symposium, Digital health meets sleep breathing disorders
Chairs: 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)

Studio Barcelona
Session 162
18:00 - 18:15
Breakout room: Grand round, Imaging grand round
Chairs: Flávia Fonseca Fernandes (Brasília, Brazil), Lucio Calandriello (Rome, Italy), Sujal Desai (London, United Kingdom), Simon Walsh (London, United Kingdom), Anna Kerpel-Fronius (Budapest, Hungary)

Studio London
Session 163
18:00 - 18:15
Breakout room: Symposium, Lung graft allocation and monitoring in the 21st century
Chairs: Lucia Carolina Viola Muñoz (Bogotá, Colombia), Jens Gottlieb (Hannover, Germany), Chandima Divithotawela (Gaythorne (QLD), Australia), Cecilia Chaparro (Toronto (ON), Canada), Johny Verschakelen (Leuven, Belgium)

Studio Munich
Session 164
18:00 - 18:15
Breakout room: Journal session: Highlights from the JAMA Network on idiopathic pulmonary fibrosis, chronic obstructive pulmonary disease and lung cancer screening
Chairs: 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)

Studio Paris
Session 165
18:00 - 18:15
Breakout room: Respiratory medicine meets other disciplines, Pulmonary embolism: controversies in management
Chairs: 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)

18:15-19:45
INDUSTRY VIRTUAL SYMPOSIUM
20:00-21:30
INDUSTRY VIRTUAL SYMPOSIUM

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)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Painful bulge over the chest wall</td>
<td>Pranav Ajmera (Pune, India)</td>
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<tr>
<td>09:45</td>
<td>How to stop the bleed?</td>
<td>Titia P.E. Schaepman - Ruys (Amsterdam, Netherlands)</td>
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<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>
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<tr>
<td>10:05</td>
<td>Cystic Lung Disease- Clinical and radiological details matter</td>
<td>Sivaraja Subramaniam (Thanjavur (Tamil Nadu), India)</td>
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<tr>
<td>10:15</td>
<td>Dyspnoea after radiofrequency cardiac ablation: Respiratory prospect</td>
<td>Muhamamd Zubair Nasim (Nottingham, United Kingdom)</td>
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<td>10:25</td>
<td>Discussion and Q&amp;A</td>
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### 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)

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<tr>
<th>OA1482</th>
<th>Introduction</th>
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<tr>
<td>OA1483</td>
<td>Impact of asthma-associated genetic polymorphisms on the efficacy of house dust mite sublingual allergy immunotherapy in adults with allergic asthma</td>
<td>Marianne Witten (Hørsholm, Denmark), Ilka Hoof, Klaus Bønnelykke, Thomas Stranzl, Xingnan Li, Deborah A. Meyers, Eugene R. Bleecker, Peter S. Andersen</td>
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<tr>
<td>OA1484</td>
<td>Effect of tezepelumab on exacerbation-related oral corticosteroid use in NAVIGATOR</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Andrew Menzies-Gow, Geoffrey Chupp, Christopher S Ambrose, Kamil Kmita, Jean-Pierre Llamos-Ackert, Gene Colice, Bill Cook</td>
</tr>
</tbody>
</table>
Bronchial smooth muscle of severe asthmatic patients decreases rhinovirus replication within the epithelium through a CCL-20/PKR/eIF2-a dependent pathway
Pauline Esteves (PESSAC, France), Benoit Allard, Alexis Celle, Isabelle Dupin, Elise Maurat, Olga Ousova, Matthieu Thumerel, Hugue Begueret, Thierry Lassere, Roger Marthan, Pierre-Olivier Girodet, Patrick Berger, Thomas Trian

Effect of bronchial thermoplasty on histopathological parameters in distinct asthma endotypes/phenotypes
Eleni Papakonstantinou (Thessaloniki, Greece), Triantafyllia Koletsa, Liang Zhou, Lei Fang, Michael Roth, Meropi Karakioutaki, Spaseniya Savic, Leticia Grize, Michael Tamm, Daiana Stolz

CAPTAIN: Effects of lung function at screening (FEV1 % predicted) as a continuous variable on treatment outcomes
Alberto Papi (Ferrara, Italy), Neil Barnes, Andrew Fowler, Huib Kerstjens, Edward Kerwin, David Mannino, Robert Nathan, Ian Pavord, Emilio Pizziichini, David Slade, Agne Zarankeite, John Oppenheimer

COVID-19 risk and outcomes in adult asthmatics treated with biologics or systemic corticosteroids: nationwide real-world evidence.
Adir Yochai (Haifa, Israel), Marc Humber, Walid Saliba

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
Kenneth R. Chapman (Toronto (ON), Canada), Richard N Van Zyl-Smit, Huib A M Kerstjens, Jorge F Maspero, Motoi Hosoe, Ana-Maria Tanase, Derek Skinner, Victoria Carter, David Price

Efficacy of tezepelumab in adolescents with severe, uncontrolled asthma
Elliot Israel (Boston, United States of America), Andrew Menzies-Gow, Geoffrey Chupp, Chris Ambrose, Bill Cook, Gillian Hunter, Jean-Pierre Llanos-Ackert, John Downie, Gene Colice

Late Breaking Abstract - The burden of intermittent oral corticosteroid use in asthma
Heath Heatley (Singapore, Singapore), Trung Tran, Arnaud Bourdin, Andrew Menzies-Gow, David Jackson, Ekaterina Maslova, Derek Skinner, Victoria Carter, David Price

Late Breaking Abstract - Effects of tezepelumab on host epithelial tolerance to virus in patients with uncontrolled asthma
Asger Sverrild (Valby, Denmark), Samuel Corps, Juan Nieto-Fontarigo, Sangeetha Ramu, Morten Hvidtfeldt, Jennifer Kearley, Janet M Griffiths, Jane R Barnes, Celeste Porsbjerg, Lena Uller

Proteomic analysis uncovers distinct signatures of bacterial-viral coinfections in cystic fibrosis cells
Adrian Endres (Frankfurt am Main, Germany), Philipp Kastl, Helena Boland, Christian Hügel, Konstantinos Kalogeropoulos, Peter Braubach, Danny Jonigk, Michael Hogardt, Gernot Rohde, Ulrich Auf Dem Keller, Carla Bellinghausen

Serine protease-dependent degradation of IL-6 by Pseudomonas aeruginosa in an in vitro model of bacterial-viral coinfection
Adrian Endres (Frankfurt am Main, Germany), Helena Boland, Christian Hügel, Ralf Schubert, Peter Braubach, Danny Jonigk, Michael Hogardt, Gernot Rohde, Carla Bellinghausen

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, SimonaPollini, Antonio Teri, Giovanni Taccetti, Alessandro Bartoloni

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)
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
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)  

OA1514 Introduction  

OA1515 In vitro discrimination between mesothelioma and lung cancer based on headspace volatile profiling  
Eline Janssens (Edegem, Belgium), Zoé Mol , Lore Vandermersch, Christophe Walgraeve, Jan Van Meerbeeck, Elly Marcq, Kevin Lamote  

OA1516 Breath analysis allows to predict treatment response in malignant pleural mesothelioma patients.  
Eline Schillebeeckx (Antwerpen, Belgium), Eline Janssens, Veerle Surmont, Kristiaan Nackaerts, Jan Van Meerbeeck, Kevin Lamote  

OA1517 A novel proteomic technique to identify new diagnostic biomarkers for malignant pleural mesothelioma: a feasibility study.  
Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote  

OA1518 The role of monocyte chemoattractant protein-1 (MCP-1) in the development of malignant pleural effusion  
Fatih Tekin (ANKARA, Turkey), Deniz Koksal, Z.Gunnur Dikmen, Sevilay Karahan, Ridvan Bayler, Burcu Ancin, Erkan Dikmen, Devrim Akinci, Sevgen Onder  

OA1519 The relationship between pleural effusion, neural respiratory drive and breathlessness – preliminary results from the SINE study  
Parthipan Sivakumar (London, United Kingdom), Neeraj Shah, Georgios Kaltsakas, Nicholas Hart, Patrick Murphy, Liju Ahmed  

OA1520 Intracavitary anaesthesia for medical thoracoscopy: a randomised trial  
Maged Hassan (Alexandria, Egypt), Mohamed Gadallah, Moustafa Shaheen, Sahar Mourad, Ahmed Abdelhady  

OA1521 Primary cilium modulates mesothelioma cell viability and 3D sphere formation.  
Sotirios Zarogiannis (Larisa, Greece), Ourania Kotsiou, Rajesh Jagirdar, Erasmia Rouka, Eleanna Pitaraki, Konstantinos Gourgoulianis  

OA1522 The frequency of BAP1 and MTAP loss in Benign Asbestos-associated Pleural Inflammation  
Katie Ferguson (Glasgow, United Kingdom), Nicola Hyndman, Fiona Roberts, Kevin G  Blyth  

OA1523 Discussion  

Studio Amsterdam  
Session 189  09:30 - 11:00  

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)  

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<th>Time</th>
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<tr>
<td>09:30</td>
<td>Introduction</td>
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</table>
| 09:35 | E-health and home monitoring: the views of patients and parents  
Andreas Hager (, Sweden)  |
| 09:40 | New sources of data in paediatric asthma: towards big data from multiple sources in children with asthma  
Louise Fleming (London, United Kingdom)  |
| 09:55 | New uses of data: from big data to artificial intelligence and clinical decision tools in children with respiratory diseases  
Konstantinos Exarchos (Ioannina, Greece)  |

Discussion  

### Studio Barcelona

#### Session 190

State of the art session: Interstitial lung diseases

**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)

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<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Familial pulmonary fibrosis</td>
<td>Coline H. M. van Moorsel (Nieuwegein, Netherlands)</td>
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<tr>
<td>09:50</td>
<td>What can ILD registries teach us?</td>
<td>Andreas Guenther (Gießen, Germany)</td>
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<tr>
<td>10:05</td>
<td>Progressive fibrosing ILDs</td>
<td>Martin Kolb (Hamilton (ON), Canada)</td>
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<tr>
<td>10:20</td>
<td>Langerhans cell histiocytosis: is it an ILD?</td>
<td>Abdellatif Tazi (Paris, France)</td>
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<tr>
<td>10:35</td>
<td>Discussion and Q&amp;A</td>
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### Studio London

#### Session 191

Symposium: Highlights on gender and respiratory health

**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>Speaker</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Patient's view</td>
<td>Celina Angelini (, Italy)</td>
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<tr>
<td>09:40</td>
<td>Sex and hormonal influence on asthma phenotypes: the case in favour</td>
<td>Apostolos Bossios (Stockholm, Sweden)</td>
</tr>
<tr>
<td>09:55</td>
<td>Molecular and genetic mechanisms in gender issues</td>
<td>Catherine Greene (Dublin 9, Ireland)</td>
</tr>
</tbody>
</table>
Primary care session: Part I: restarting COPD 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 (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

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**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 (Örebro, Sweden), Ruža Stevi (Beograd, Republic of Serbia)

**OA1559** Introduction

**OA1560** Chest CT manifestation in children who had Covid-19
Diana Rotaru-Cojocari (Chişinău, Republic of Moldova), Rodica Selesevutru, Eugenia Criveanu, Aliota Cotoman, Galina Gutu, Cristina Tomacinschi, Svetlana Sciuca

**OA1561** 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

**OA1562** 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 Giuffredda, Maria Pia Foschino Barbaro

**OA1563** 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
### OA1564
**Thoracic Radiological Sequelae after Coronavirus Infection: A Systematic Review**
Christopher C. Huntley (Bromsgrove, United Kingdom), Ketan Patel, Shahnoor-E-Salam Bushra, Farah Moeen, Peter S Burge, Alice M Turner, Gareth I Walters

### OA1565
**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 Nuijin, Jouke Annaema, Maarten Van Den Berge, Martijn De Bruin, Peter Bonta

### OA1566
**Estimation of the Alveolar Partial Pressure of Oxygen using Hyperpolarized Helium-3: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study**

### OA1567
Sara Tomassetti (Florence, Italy), Tiberio Oggionni, Emanuela 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 Biadene, Diletta Cozzi, Edoardo Cavigni, Vittorio Miele, Sara Picciucchi, Nicola Sverzelli, Silvia Puglisi, Venerino Poletti, Claudia Ravaglia

### OA1568
**Discussion**

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### 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)

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<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
<th>Reference</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Introduction</td>
<td>Anita Simonds (London, United Kingdom), Sophia E. Schiza (Heraklion, Greece)</td>
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<tr>
<td>10:05</td>
<td>Polysomnography: indications and interpretation</td>
<td>Johan Verbraecken (Edegem (Antwerp), Belgium)</td>
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<tr>
<td>10:30</td>
<td>Home sleep studies: indications and interpretation</td>
<td>Thomas Penzel (Berlin, Germany)</td>
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<tr>
<td>10:55</td>
<td>PAP telemonitoring and residual apnea–hypopnea index/symptoms: clinical cases and impact for follow-up management</td>
<td>Renaud Tamisier (Grenoble, France)</td>
<td>1572</td>
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<tr>
<td>11:20</td>
<td>Home monitoring in patients with neuromuscular disorders from diagnosis to non-invasive ventilation initiation to rehabilitation programmes</td>
<td>Marieke L. Duiverman (Groningen, Netherlands), Michelle Chatwin (London, United Kingdom)</td>
<td>1573</td>
</tr>
<tr>
<td>11:45</td>
<td>Discussion</td>
<td>Anita Simonds (London, United Kingdom), Sophia E. Schiza (Heraklion, Greece)</td>
<td>1574</td>
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</tbody>
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### Studio Paris

**Breakout room: 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), Núria Toledo Pons (Palma De Mallorca, Spain)
Primary care session: Part II: restarting asthma care in the post-COVID era

An opportunity to improve asthma monitoring and self-management in primary care

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 (Edinburgh), United Kingdom), Miguel Román Rodriguez (Palma De Mallorca, Spain), Marion Delcroix (Leuven, Belgium)

10:55 Introduction

11:00 Remote consultations to monitor asthma in primary care
    Hanna Sandeforsky (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

Studio Amsterdam

Session 199 11:00 - 11:15

Breakout room: Symposium, New technologies for the management of children with respiratory diseases

Chairs: Louise Fleming (London, United Kingdom), Konstantinos Exarchos (Ioannina, Greece), Jolt Roukema (Nijmegen, Netherlands), David Drummond (Paris, France), Abdul Mannan Mustafa (Multan, Pakistan), Andreas Hager (, Sweden)

Studio Barcelona

Session 200 11:00 - 11:15

Breakout room: State of the art session, Interstitial lung diseases

Chairs: Kunal Khanderao Deokar (Thane (Maharashtra), India), Coline H. M. van Moorsel (Nieuwegein, Netherlands), Andreas Guenther (Gießen, Germany), Martin Kolb (Hamilton (ON), Canada), Abdellatif Tazi (Paris, France)

Studio London

Session 201 11:00 - 11:15

Breakout room: Symposium, Highlights on gender and respiratory health

Chairs: Ema Swingwood (Monmouthshire, United Kingdom), Catherine Greene (Dublin 9, Ireland), Isabel Nerin De La Puerta (Zaragoza, Spain), Sofia Belo Ravara (Coimbra, Portugal), Apostolos Bossios (Stockholm, Sweden), Celina Angelini (, Italy)

Channel 1

Session 203 11:15 - 12:45

Joint session: Updates on inhalers for COPD and asthma

A joint ERS/Industry session

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

11:15 Introduction

11:20 How to choose and use an inhaler device?
    Omar S. Usmani (London, United Kingdom)

11:40 How to monitor and improve inhaler technique?
    Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)

12:00 How to assess and improve inhaler adherence?
    David Price (Singapore, Singapore)

12:20 Discussion and Q&A
    Omar S. Usmani (London, United Kingdom), Henry Chrystyn (Bingley (West Yorkshire), United Kingdom), David Price (Singapore, Singapore)
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)

OA1586  Introduction

OA1587  The Leicester Cough Questionnaire in 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 Mcgarvey, Anjela Tzontcheva, Qing Li, Allison Martin Nguyen, Jonathan Schellhout, David Muccino, Carmen La Rosa

OA1588  Patient-reported chronic cough severity over 52 weeks in two phase 3 trials of gefapixant
Peter Dicpinigaitis (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

OA1589  Prevalence of Poor Disease Control in Patients with severe COPD according to GOLD 2021
Juan José Soler-Cataluña (La Eliana (Valencia), Spain), Arturo Huerta, Pere Almagro, Diego González-Segura, Borja G Cosio

OA1590  Real-world evidence of reported symptoms and quality of life burden associated with chronic rhinosinusitis with nasal polyposis and comorbid asthma status
Benjamin Emmanuel (Gaithersburg, United States of America), Mousumi Biswas, Megan Scott, Mark Small, Lauren Lee, Stephanie Chen, Sandrine Ruiz

OA1591  The Severe Asthma Questionnaire (SAQ) - minimal clinically important difference and sensitivity to change
Matthew Masoli (Plymouth (Devon), United Kingdom), Joseph Lanario, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, David Allen, Dodd James, Gemma Hayes, Jose Valderas, Sallie Lamb, Rupert Jones

OA1592  A Parent Reported Quality of Life Measure for Young Children with Primary Ciliary Dyskinesia: QOL-PCDPR
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

OA1593  Treatable traits in the NOVELTY study: assessing complexity by network analysis
Rosa Faner (Barcelona, Spain), Eleni Rapsomaniki, Richard Beasley, Rod Hughes, Hana Müllerová, Alberto Papi, Ian D Pavord, Alvar Agusti

OA1594  Long-term impact of COPD on postoperative cardiorespiratory morbidity and mortality: a population cohort study
Nermin Diab (Ottawa, Canada), Ashwin Sankar, Jin Luo, Kevin Thorpe, Duminda Wijeysundera, Andrea Gershon

OA1595  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.
Koichi Nishimura (Kyoto, Japan), Masaaki Kusunose, Ryo Sanda, Mio Mori, Ayumi Shibayama

OA1596  Late Breaking Abstract - Blood and bronchoalveolar neutrophil signatures associate with COPD severity

OA1597  Discussion

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

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

Outcomes of modified all-oral 9-month treatment regimen for rifampicin-resistant tuberculosis in Belarus

Natalia Yatskevich (Minsk, Belarus), Elmira Garbano, Henadz Hurevich, Masoud Dara, Askar Yedilbayev, Viatcheslav Grankov, Ogtay Gozalov, Alena Skrahina

Metformin as an adjunct in treatment of Pulmonary Tuberculosis in Non-Diabetic patients.

Sudarsan Pothal (Puri, India), Ipsita Samantaray, Sashi Bhusan Biswal

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

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 Lönnroth, Ibrahim Abubakar, Sarah Anderson, Dominik Zenner

Impact of pulmonary tuberculosis on COPD outcomes

Nuno Faria (Porto, Portugal), Maria Inês Costa, Joana Gomes, Maria Sucena

Tuberculosis in the elderly. Clinical aspects and outcomes.

Elena Garay Llorente (Barakaldo, Spain), Eva Tabernero Huguet, Teresa Rodrigo Sanz, Lander Altube Urrengoetxea, Juan Francisco Medina Gallardo, Nerea Ortiz Laza, Javier Garros Garay, Juan Rodriguez Lopez, Jose Maria Garcia Garcia, Pii Tuberculosis Group Separ

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

Discussion

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 Alejandre Alcázar (Kölín, Germany)

Neonatal ßENaC-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

Defects in outer dynein arm docking machinery cause primary ciliary dyskinesia

Rim Hjejij (Münster, Germany), Isabella Aprea, Heike Olbrich, Gerard W. Dougherty, Heymut Omran
### LSC - 2021 - Development of a 3D in vitro co-culture model of the airway mucosa using human primary cells

Cinta Iriondo (Rotterdam, Netherlands), Kari-Pekka Skarp (k.skarp@erasmusmc.nl / Department of Pediatric Surgery and Intensive Care, Sophia Children’s Hospital, Erasmus University Medical Center, Rotterdam), Miekke Veltman (m.veltman@erasmusmc.nl / Department of Cell Biology, Erasmus University Medical Center, Rotterdam), Marjou Buscop-Van Kempen (m.vankempen@erasmusmc.nl / Department of Pediatric Surgery and Intensive Care, Sophia Children’s Hospital, Erasmus University Medical Center, Rotterdam), Anne Boereema-De Munch (a.demunck@erasmusmc.nl / Department of Pediatric Surgery and Intensive Care, Sophia Children’s Hospital, Erasmus University Medical Center, Rotterdam), Bob Scholte (b.scholte@erasmusmc.nl / Department of Pediatrics, Division of Respiratory Medicine and Allergology, Sophia Children’s Hospital, Erasmus University Medical Center, Rotterdam), Rene Wijnen (r.wijnen@erasmusmc.nl / Department of Pediatric Surgery and Intensive Care, Sophia Children’s Hospital, Erasmus University Medical Center, Rotterdam), Jacquie Rottier (r.rottier@erasmusmc.nl / Department of Pediatric Surgery and Intensive Care, Sophia Children’s Hospital, Erasmus University Medical Center, Rotterdam)

### LSC - 2021 - Decellularized extracellular matrix hydrogels for human airway organoid culture

Sinem Tas (Lund, Sweden), Deniz A. Bölükbas (deniz.bolukbas@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Hani N. Alsafta (hani.alsafta@med.lu.se / Lung Bioengineering and Regeneration, Dept of Experimental Medical Sciences, Lund University, Lund ), Irán 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_ingemansson@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 thyromidal lymphopoietin level depends on allergic profile in pediatric asthma

Andrey Kamaev (St. Petersburg, Russian Federation), Olga Trusova, Natalya Lyashenko, Irina Shaparova

### 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, 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

Natasha Borchers (Lappersdorf, Germany), Elisangela Santos-Valente, Antoaneta A. Toncheva, Jan Wehkamp, Andre Franke, Vincent D. Gaertner, Peter Nordkild, Jon Gennuheit, Benjamin A. H. Jensen, Michael Kabesch

### Channel 5 Session 207 11:15 - 12:45

**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.

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<th>Disease(s)</th>
<th>Method(s)</th>
<th>Tag(s)</th>
<th>Chairs</th>
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</thead>
<tbody>
<tr>
<td>Respiratory critical care</td>
<td>General respiratory patient care</td>
<td>COVID</td>
<td>João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Sarah Bettina Schwarz (Köln, Germany)</td>
</tr>
</tbody>
</table>

**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
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 Ultrasonographic evaluation of the diaphragm during NHF versus NIV use in respiratory failure.  
Jens Bräunlich (Leipzig, Germany), Andreas Hoheisel, 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 Catali, 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 Kaltsakas, 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 Lalmola Puyol, Patricia Peñacoba, Juana Martinez Llorens, Oscar Bernadich, Julia Tarrega, Ana Cordoba Izquierdo, Lourdes Lozano, Anne-Elie 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 Carlucci, Léa Razakamanantsoa, Adrien Kerlourn, Hilario Nunes, Yacine Tandjaoui-Lambiotte, Antoine Cuvelier, Jean-François Muir, Cristina Lalmoda, Bruno Langevin, Javier Sayas, Jesús Gonzalez-Bermejo, Jean-Paul Janssens

OA1630 Usefulness of teledmedicine in ALS during COVID-19 pandemic  
Natalia Pascual Martinez (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 Alcaide, Ana Luz Luna Jiménez, Jose Maria Martin Muñoz, Maria José González Benitez, Mónica Posadas de Julián, Rosa Gómez Gómez, 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 Girardin, Enrico Clini

OA1633 Discussion

Studio Amsterdam  Session 208  11:15 - 12:45

Symposium: Wheezing illnesses along the life span

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  1634

11:20 Can phenotype and endotype discovery be translated to the clinic?  1635
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 reflection 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)

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:15</td>
<td>Introduction</td>
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<tr>
<td>11:20</td>
<td>Presentation of cases by the session facilitator</td>
<td>Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)</td>
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<tr>
<td></td>
<td>Case 1 - Author: Mário Alexandre Oliveira Pinto, Portugal</td>
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<td>Case 2 - Author: Sophie Cottin, Belgium</td>
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<td>Case 3 - Author: Johad Khoury, Israel</td>
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<td>Case 4 - Author: Wallace Wee, Canada</td>
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<tr>
<td>12:40</td>
<td>Session wrap-up</td>
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</table>
| Time   | Session | Title                                                                 | Speaker                        | Location                        | 1649  
---|---|---|---|---|---
| 11:35  | Malnutrition and sarcopenia assessment | Annelie Schols (Maastricht, Netherlands) | 11:35 | Malnutrition and sarcopenia assessment | 1649  
| 11:50  | Underlying mechanisms and pharmacological approaches for treatment of sarcopenia | Neil Greening (Leicester (Leicestershire), United Kingdom) | 11:50 | Underlying mechanisms and pharmacological approaches for treatment of sarcopenia | 1650  
| 12:05  | Modalities of pulmonary rehabilitation, including exercise training for sarcopenia in chronic lung disease | Matthew Maddocks (London, United Kingdom) | 12:05 | Modalities of pulmonary rehabilitation, including exercise training for sarcopenia in chronic lung disease | 1651  
| 12:20  | Discussion and Q&A | 12:20 | Discussion and Q&A | 1652  

**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)

| Time   | Title                                                                 | Speaker                        | Location                        | 1653  
---|---|---|---|---|---
| 11:15  | Introduction | 11:15 | Introduction | 1653  
| 11:20  | The Catalan open innovation hub on ICT-supported integrated care services | Carme Hernandez Carcereny (Barcelona, Spain) | 11:20 | The Catalan open innovation hub on ICT-supported integrated care services | 1654  
| 11:35  | Turning the crisis into an opportunity: digital health strategies deployed during the COVID-19 outbreak | Jordi Piera (Barcelona, Spain) | 11:35 | Turning the crisis into an opportunity: digital health strategies deployed during the COVID-19 outbreak | 1655  
| 11:50  | Computational challenges of personalised medicine: from bench to bedside | Kristel Van Steen (Liege, Belgium) | 11:50 | Computational challenges of personalised medicine: from bench to bedside | 1656  
| 12:05  | Implementation of digitally enabled integrated person-centred care across Europe | Filip Domanski (Brussels, Belgium) | 12:05 | Implementation of digitally enabled integrated person-centred care across Europe | 1657  
| 12:20  | Discussion and Q&A | 12:20 | Discussion and Q&A | 1658  

**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.

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

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

**Chairs:** Graham H. Bothamley (London, United Kingdom), Chair to be confirmed

| Session | Title                                                                 | Speaker                        | Location                        | 1659  
---|---|---|---|---|---
| OA1659 | Introduction | OA1659 | Introduction | 1659  
| OA1660 | Late Breaking Abstract - Value of the interleukin profile can be an objective standart for control the tactics of managing patients with bronchiolitis | Pavel Berezhanskiy (Uspenskoe (Moscow region), Russian Federation), Andrey Andjel, Aleksandr Malachov, Valeria Elagina | OA1660 | Late Breaking Abstract - Value of the interleukin profile can be an objective standart for control the tactics of managing patients with bronchiolitis | 1660  
| 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, Vinícius Cury, Lucas Antoniazi, Paulo Henrique Oliveira, Wyllians Borelli, Sainan Cunha, Renato Seligman | OA1661 | Late Breaking Abstract - Developing the pneumonia-optimized ratio for community-acquired pneumonia: an easy, inexpensive and accurate prognostic biomarker | 1661  
| 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 | OA1662 | Late Breaking Abstract - Dysbiosis in the lung microbiome of patients with HIV and pneumonia is associated with worse disease severity and mortality scores | 1662  

**ERS Virtual International Congress 2021**

**DETAILED PROGRAMME**

**MONDAY 06 SEPTEMBER, 2021**

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### 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 Gareri, Alba Malara, Enrico Mossello, Caterina Trevisan, Stefano Volpato, Gianluca Zia, Fabio Monzani, Raffaele Antonelli Incalzi

### 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, Nafisa Hussain, Nabiah Malik, Jishanthan Ragunathan, Simon Saldanha, Kholiwe Kutshwa, Mihrav Patel, Sceyon Mohan, Rama Vancheeswaran

### Late Breaking Abstract - Tocilizumab in hospitalized patients with severe COVID-19: an open label, prospective study
Theodoros Karampitsakos (Athens, Greece), Elli Malakounidou, Ourania Papaioannou, Vassilina Dimakopoulou, Eirini Zarkadi, Matthais Katsaras, Panagiota Tsiri, Georgios Tsirikos, Ioanna Oikonomou, Christos Davoulos, Vasiliki Georgiopoulou, Fotios Sampsonas, Markos Marangos, Karolina Akinosoglou, Argyris Tzouvelekis

### Late Breaking Abstract - Improving adherence to prescribing remdesivir in COVID-19
Rebecca Bamford (London, United Kingdom), Rebecca Bamford, Usman Ahmed, Nilakshini Mahendran, Tina Ramishvili, Henry Garner, Shamir Alvis, Mila Germani-Batacchi, Adam Ainley

### 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, Bhavsar Amit, Akpo Essi Ifebi Hervé, Jason C. Simeone, Anna Ramond, Dimitra Lambrelli, Nicolas Jamet, Yan Sergerie, Piyali Mukherjee, Kinga Meszaros

Pietro Gianella (Lugano, Switzerland), Marco Marando, Tanja Fusi-Schmidhauser, Adriana Tamburello, Lorenzo Grazioliguauthier, Elia Rigamonti, Gianluca Argentieri, Carla Puligheddu, Alberto Pagamenta, Antonio Valenti, Marco Pons

### 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 Abed, Nik Azuan Nik Ismail, Nik Farhan Nik Fuad, Syed Zulkifli Syed Zakaria, Sheah Lin Ghan

#### Studio Paris Session 213 12:10 - 12:25
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)

#### Studio Paris Session 214 12:20 - 13:00
**Pro-Con debate: The current classification of pulmonary hypertension meets clinical practice**

**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)

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<td>David Montani (Le Kremlin-Bicêtre, France)</td>
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<td>12:34</td>
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<td>Harm Jan Bogaard (Amsterdam, Netherlands)</td>
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<td>12:46</td>
<td>Discussion and Q&amp;A 1674</td>
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</table>
Studio Amsterdam  Session 215  12:45 - 13:00
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: 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: 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: 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 (Liege, 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)

| 12:50 | Introduction  
Najib M. Rahman (Oxford, United Kingdom), Christian B. Laursen (Odense, Denmark) | 1675 |
| 13:00 | Live demonstration: Chest wall & parietal pleura  
Najib M. Rahman (Oxford, United Kingdom) | 1676 |
| 13:20 | Live demonstration: Focused assessment of the lung & heart  
Christian B. Laursen (Odense, Denmark) | 1677 |
| 13:40 | Thoracic ultrasound for assessing and monitoring patients with acute respiratory distress syndrome  
Silvia Mongodi (Pavia, Italy) | 1678 |
| 14:00 | Transthoracic ultrasound guided biopsies  
Rocco Trisolini (Bologna (BO), Italy) | 1679 |
| 14:20 | Contrast enhanced thoracic ultrasound  
Niels Jacobsen (Odense M, Denmark) | 1680 |
| 14:40 | Thoracic ultrasound for monitoring patients following pleurodesis  
Maged Hassan (Alexandria, Egypt), Eihab Bedawi (Oxford (Oxfordshire), United Kingdom) | 1681 |

Studio Paris  Session 220  13:00 - 13:15
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)
INDUSTRY VIRTUAL SYMPOSIUM

Pre-congress content

Session 227

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 Addisise

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
Igor Mokrousov (St. Petersburg, Russian Federation), Anna Vyazovaya, Svetlana Zhdanova, Tatiana Umpeleva, 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)

PA1727 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

PA1728 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

PA1729 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

PA1730 Data driven phenotyping and COVID-19 case definitions: a pattern recognition approach
George Vavougios (Larissa, Greece), Christofors Konstantatos, Pavlos - Christoforos Simigalias, Sotirios Zarogiannis, Kostas Kolovatsos, Konstantinosourgoulis

PA1731 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

PA1732 Coronavirus infection (Covid – 19) in children with cystic fibrosis in the Russian Federation
Elena Zhekaite (Moscow, Russian Federation), Elena Kondratcheva, Victoria Sherman, Olga Simonova, Yuliya Gorinova, Anna Voronkova

PA1733 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 Ihsan Abu Bakar, Yong Kek Pang, Karuthan Chinna, Li Ping Wong, Sanjay Juvekar, 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 Pousset, 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

Outcomes of Critically ill Very old patients with Acute Respiratory Distress Syndrome and Community-Acquired Pneumonia
Catia Cilloniz Campos (Barcelona, Spain), Juan Manuel Pericas, Hector Peroni, Albert Gabarrus, Enric Barbeta, Andrea Palomeque, Miquel Ferrer, Antoni Torres

Severity of community-acquired-pneumonia in elderly.
Asma Ghourabi (Ariana, Tunisia), Ines Zendah, Chirine Moussa, Houda Rouis, Nour Mahmoud, Soumaya Debbiche, Alya Zaoui, Ibtihel Khouaja, Amel Khattab, Lamia Bayahi, Habib Ghedira

Respiratory tract infection in centenarians
Christiana Yu (Clayton, Australia), Ar Aung, Chuan Foo

The impact of Healthcare-Associated Pneumonia in patients admitted in a Northern Portuguese hospital
Lucia Méndez González (Santa Maria da Feira, Portugal), Pedro Castro, Catia Caneiras

VAP: Clinico-radiological and microbiological profile & risk-factors for MDR bacterial infection
Sweta Nandy (Kolkata, India), Arunabha Datta Chaudhuri, Sumit Roy Tapadar

Particularities of pneumonia in diabetes patients.
Asma Ghourabi (Ariana, Tunisia), Chirine Moussa, Houda Rouis, Soumaya Debbiche, Nour Mahmoud, Alya Zaouia, Ibtihel Khouaja, Ines Zendah, Habib Ghedira

An Audit of Hospital in the Home Treatment in Respiratory Patients
Mohammed Al Harrasi (Nizwa, Oman), Paul King

A STUDY OF CLINICORADIOLOGICAL AND MICROBIOLOGICAL PROFILE AND BIOMARKERS IN CASES OF COMMUNITY ACQUIRED PNEUMONIA ADMITTED IN A TERTIARY CARE HOSPITAL
BISWAJIT HATI (Berhampore, India), Atin Dey, Somnath Bhattacharya, Mitali Chatterjee
Lymphopenic community acquired pneumococcal pneumonia: Clinical characteristics and outcome
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Beatriz Gonzalez Quero, Ainhoa Gomez Bonilla, Silvia Perez Fernandez, Alejandro Rezola Carasusan, Amaia Artaraz Ereño, Jone Solorzano Santobeña, Imanol Gonzalez Muñoz, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

Bacteraemic pneumococcal pneumonia and SARS-CoV-2 pneumonia: differences and similarities
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Pedro Pablo España Yandiola, Raul Mendez Ocaña, Silvia Perez Fernandez, Eva Tabernerho Huget, Ane Uranga Echeverria, Paula Gonzalez Jimenez, Patricia Garcia Hontoria, Rosario Menendez Villanueva, Rafael Zalacain Jorge

Garifallia eirini Perlepe (Larissa, Greece), Ioannis C Lampropoulos, Dimitrios Raptis, Zoe Daniil, Ioanna V Papatathanasiou, Konstantinos I Gourgoulianis, Foteini Malli

The predictive validity for mortality in community-acquired pneumonia of qSOFA was greater than IDSA/ATS minor criteria
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 Lu, Li-Hua Liang, Qing-Zhou Zhao, Mei Jiang

Impact on in-hospital mortality of Ceftaroline versus standard care in Community-Acquired Pneumonia: A Propensity Matched Analysis
Cati Cilloniz Campos (Barcelona, Spain), Raul Mendez, Hector Peroni, Carolina Garcia-Vidal, Veronica Rico, Rosario Menendez, Antoni Torres, Alex Soriano

Outcomes reported in pneumonia randomized controlled trials
Alexander Mathioudakis (Stockport, United Kingdom), Markus Fally, Rebecca Robey, Thomas Williams, Faikne Haseeb, Ahmed Kouta, Paul Dark, Andrew Bentley, Jørgen Vestbo, Tim Felt

Performance of the CORB score for predicting clinical outcomes in community-acquired pneumonia.
Karen Dayanna Pedreros Suarez (Bogotá, Colombia), Alirio Bastidas, Karen D Pedreros, Manuela Herrera, Juan F Frias, Alvaro F. Aguilar, Laura D Saza, Alejandro P. Nonzoque, Laura E. Bello, Maria D. Hernandez, German A Camargo, Anyelina Jaimes, Silvia Ramirez, Natalia Murillo, Luis F Reyes

Hospital acquired pneumonia- what’s the score? A scoping & observational study on severity scoring indiciies in HAP
Michael Peirson (Beverley, United Kingdom), Peter Kempster, Sion Williams, Damian John McKeon

Rapid syndromic PCR testing in a Norwegian cohort with suspected community acquired pneumonia
Sondre Serigstad (Bergen, Norway), Harleen M.S. Grewal, Marit Ebbesen, Øyvind Kommedal, Dagfinn Markussen, Lars Heggelund, Daniel Faurschou-Jepsen, Christian Ritz, Elling Ulvestad, Rune Bjørneklett, Siri T. Knoepf, Capnor Study Group*

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 Sulman, Sherbini Nahid, Mohammed Alhamadi, Abdula Al-Rashidi

Pre-congress content Session 229 13:15 - 14:15

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

Tag(s): COVID

Chair(s): Lieuwe D.J. Bos (Amsterdam, Netherlands)

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 Rashidy, Duncan Powrie, Dora Amran, Alguili Elsheikh, Siriya Gokaraju, Anne Tear, Maryam Noeman, Maria Darda, Iman El Sayed, Vijalakshmi Karunanithi, Aarani Mahalingam, Muhammad Shafiq, Iman Abdul Khalik, Johnson Samuel

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
The use of pronation associated with non-invasive ventilator support in patients with severe SARS-CoV-2 pneumonia: preliminary data.
Giancarlo Garuti (Modena (MO), Italy), Elisa Businarolo, Rosita Melara, Lorenzo Porrino, Maria Serena Simeone, Valeria Vezzani, Carmela Citione, Maurizio Moretti, Alessandro Pignatti, Rodolfo Murgia

Survival rates among COVID-19 patients treated with high flow nasal oxygen therapy with a do-not-intubate-order: an observational study
Iliaa Smesseim (Hoofddorp, Netherlands), Burak Atasever, Lisa Hessels, Daniel Korevaar, Lieve Bos, Bram Goorhuis, Esther Nossent, Kirsten Mooij-Kalverda, Peter Bonta

The impact of embedding trial recruitment into a clinical care pathway
Kay Por Yip (Birmingham, United Kingdom), Simon Gomperz, Catherine Snelson, Jeremy Willson, Shyam Madathil, Syed Huq, Farrukh Rafi, Natasha Salmon, Julie Tracey, Brendan Cooper, Kay Filby, Dhivver Parekh, Davinder Dosanjh

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

First and second waves results of COVID-19 patients treated with non-invasive respiratory therapies outside the ICU: unicentric, observational study
VIRGINIA Parra León (MADRID, Spain), Daniel López-Padilla, José Rafael Terán Tinedo, Sergio Suárez Escudero, Soledad López Martín, Elena Ojeda Castillejo, Francisco Caballero Segura, Beatriz Recio Moreno, Christian Castro Riera, Luis Puente Maestú

A retrospective study of the use of ROX index to predict failure in patients receiving CPAP for COVID-19
Asfandyar Yousuf (Norwich, United Kingdom), David Gottlieb, Aneesh Aggarwal, Bernadette Peacock, Shruthi Konda

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

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

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 Debiche (Rades, Tunisia), Samia Ayed, Selim Sellauti, Farouk Daoud, Amira Jamoussi, Emna Rachdi, Fatma Jarraya, Jalila Ben Khelif, Mohamed Beshes

Experimental use of CPAP device for emergency high-flow nasal oxygen therapy
Pavol Pobeha (Košice, Slovakia), Jakub Hack, 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 Jiwen, 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)

PA1779
Bushfire smoke exposure cause impairment to airway muco-ciliary function
Randy Suryadinata (Parkville, Australia), Paul Martinello, Phil Robinson

PA1780
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, Arjo A. Ruprecht

PA1781
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 Larcó, Mario Calvo Gil, Dirceu Solé

PA1782
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

PA1783
Sputum transcriptomic analysis of air pollutant signatures: link to asthma severity and phenotype
Angelica Tiotiu (Nancy, France), Yusef Badi, Hisham Abubakr-Waziri, Ali Versi, Coen Wiegman, Philip M. Hansbro, Sharon Mumbiyi, Sven-Erik Dahlen, Peter Sterk, Ratko Djukanovic, Ian M. Adkock, Kian Fan Chung

PA1784
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
KIDSSCREEN Questionnaires to Identify Respiratory Problems. Exploratory study with 800 people
Telma de Cassia dos Santos Nery (São Paulo (SP), Brazil), Rafael Futushi Mizutani, Cleide Lopes, Mario Terra Filho, Rafael Stelmach, Ubratan 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 Pasola, Claudio Garaiasso, Massimo Stafoggia, Steafania La Grutta, Francesco Forastiere, Giovanni Viegli

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 Pasola, Stefania La Grutta, Giovanni Viegli

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
Luís Fernando Amato-Lourenco (Osasco, Brazil), Regiani Carvalho Oliveira, Gabriel Ribeiro Junior, Luciana Dos Santos Galvao, Romulo Augusto Ando, Thais Mauad
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

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, Luebeck), 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 9713GZ,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, Luebeck), Markus Weckmann (markus.weckmann@uksh.de / Children’s Hospital, University of Luebeck, Pediatric Pulmonology Luebeck, Schleswig-Holstein, DE, Luebeck)

LSC - 2021 - Ambient PM2.5 Exposure and Respiratory Disease Hospitalization in Kandy, Sri Lanka.

Gayan Bowatte (Reservoir, Australia), Sajith Priyankara (tmspriyankara@gmail.com / National Institute of Fundamental Studies, Kandy), Duminda Yasaratne (yasaratne@yahoo.com / University of Peradeniya, Kandy), Rohan Jayaratne (r.jayaratne@qut.edu.au / Queensland University of Technology, Brisbane), Mahesh Senaratne (smdmaheshchamika@gmail.com / National Institute of Fundamental Studies, Kandy), Sachith Abey sundara (sachith.me@gmail.com / University of Peradeniya, Kandy), Rohan Weerasooriya (rohan.wei@nifs.ac.lk / National Institute of Fundamental Studies, Kandy), Lidiia Morawska (l.morawska@qut.edu.au / Queensland University of Technology, Brisbane), Luke Knibbs (l.knibbs@uq.edu.au / The Queensland University, Brisbane), Dushantha Madegedara (dmadegedara@yahoo.com / National Hospital, Kandy, Kandy), Shyamali Dharmage (s.dharmage@unimelb.edu.au / The University of Melbourne, Melbourne)

Respiratory patients awareness of the risks for health posed by air pollution

Ignasi Garcia Olivé (Badalona, Spain), Toni Zapata, Adela Gonzalez, Marina Compte, Alan Jhunior Solis, Magali Arago, Susana Diaz, Pilar Aluja, Laura Pujol, Jorge Abad, Antoni Rosell

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

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)

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

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 Svan, Hanne Madsen

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, Ângela Mota, Mariana Santos, Miguel Padilha

Health-psychologic features and health-related quality of life in persons with severe asthma

Lina Rönnebjerg (Höviksnäs, Sweden), Malin Axelsson, Hannu Kankaanranta, Bo Lundbäck, Linda Ekerljung
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

**PA1811**

*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 Wuyts, Thierry Troosters, Heleen Demeyer

**PA1812**

*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 Polastra, Cassiana Cruz, Lorena Paltanin Schneider, Camile Ludovico Zamboti, Karina Couto Furlanetto, Fabio Pitta

**PA1813**

*Unsupervised physical activity interventions for people with COPD: a systematic review*

Cátia Paixão (Guarul, Portugal), Vânia Rocha, Dina Brooks, Alda Marques

**PA1814**

*Validity of the International Physical Activity Questionnaire in adults with asthma*

Joice Mara Oliveira (Londrina, Brazil), Thamyres Sposito, Diery Fernandes Rugeila, Natielly Soares Correia, Luiz Daniel Barizon, Natalia Yukie Vicentin Toda, Natalia Neves Moreira, Fabio Pitta, Karina Couto Furlanetto

**PA1815**

*Physical activity level in patients with bronchiectasis: a systematic review of determinants and outcome measures*

Cigdem Emirza (Istanbul, Turkey), Pelin Tiryaki, Begüm Kara Kayar, Elçin Akyurek, Goksen Kuran Aslan

**PA1816**

*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 Caeiro, Bruno P. Carreira, Filipa Januário, Lília Andrade, Fátima Rodrigues, Dina Brooks, Chris Burtin, Alda Marques

**PA1817**

*Physical activity during and after a severe acute exacerbation of COPD*

Kirsten Quadflieg (Maasmechelen, Belgium), Ana Machado, Fabiano De Lima, Marc Daenen, David Ruttens, Michel Thomeer, Martijn Spruit, Chris Burtin

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**ERS Virtual International Congress 2021**

**DETAILED PROGRAMME**

**MONDAY 06 SEPTEMBER, 2021**
Effects of Telerehabilitation on Peripheral Muscle Function in Pediatric Cystic Fibrosis Patients During Covid-19 Pandemic
Naciye Vardar Yağlı, Kübra Kilç, Dilber Ademhan-Tural, Birce Sunman, Beste Ozsezen, Deniz Dogru, Melda Saglam, Ebru Calik-Kutukcu, Deniz Inal-Ince, Nagehan Emiralioglu, Ebru Yalcin, Ugur Ozcelik, Nural Kiper

Clinical effectiveness of Tele-Pulmonary rehabilitation: a comparative study to face to face pulmonary rehabilitation
Kola Akinlabi, Ken Johnston, Binny Patel, Bunmi Adebaio, Radoslav Trojak, Akhshta Patel, Gavin Sandercock

Video based telerehabilitation: patient acceptability and experience in chronic respiratory disease
Ken Johnston, Binny Patel, Akhshta Patel, Radoslav Trojak, Bunmi Adebaio, Kola Akinlabi

The effects of neuromuscular electrical stimulation on muscle strength, functional capacity, and quality of life among older patients with asthma
Elif Develi, 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, Tamiress Alesi, De Mor, Ivan Luiz, Padilha Bonfante, Renata G. Duft, Mara Patricio, Chacon-Mikahl, Claudia Regina Cavagliere

Rapid Access Rehabilitation after exacerbations of COPD – A qualitative study
Ana Oliveira, Shirley Quach, Sanaa Alsubheen, Dina Brooks, Jan Walker, Roger Goldstein

Outcomes and measures of pulmonary rehabilitation in patients with COPD: a systematic review
Sara Souto-Miranda, 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, 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, Wim Groot, Milena Pavlova

HYPERCAPNIA AND FUNCTIONAL IMPROVEMENTS DURING PULMONARY REHABILITATION.
Camilo Corbellini, Saverio Tavella, Elisa Gugliotta, Stefano Zampese, Eleuterio A. Sanchez Romero, Jorge Villafane

Pre-congress content
Session 233 13:15 - 14:15
E-poster: Treatments for 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): General respiratory patient care Pulmonary function testing Imaging Epidemiology

Chairs: Chin Kook Rhee, Carolina Maria Gotera Rivera

Cross-sectional study on therapeutic adherence and disease knowledge of patients affected by chronic obstructive pulmonary disease.
Janos Tamas Varga, Monika Fekete, Vince Fazekas-Pongor, Sergio Gori, Maria Kerti

Sugar coating hypoxia – Metformin risks?
David Barber, Claire Barber, Dennis Wat, Nikki Glover

Influence of government-driven quality assessment program on patients with chronic obstructive pulmonary disease
Hye Jung Park, Sung-Ryeol Kim, Sinae Kim, Hye Sun Lee, Bo Yeon Kim, Hye Kyoung Kim, Sang In Ahn, Jae-Hyun Lee, Jung-Won Park

Effect of physical position on peak inspiratory flow in stable COPD
Michael B. Drummond, Ashley G. Henderson, Asif Shaikh, Valentina Bayer, Roy A. Pleasants

Endobronchial valve lung volume reduction and small airways function
Justin Leo Garner, Martyn F Biddiscombe, Sally Meah, Adam Lewis, Sara C Buttery, 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. Kasteleyn, 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, Joanna 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 Jörres, Franziska Trudzinski, Peter Alter, Christina Kellerer, Henrik Watz, Tobias Welte, Robert Bals, Diego Kauffmann-Guererro, Jürgen Behr, Rolf Holle, Claus Vogelmeier, Johanna Lutter

PA1837  Efficacy perception and prescription of treatments for refractory/unexplained chronic cough by Spanish physicians

PA1838  Association between COPD exacerbations and acute cardiovascular events: a systematic literature review
Hana Müllerová (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 Schweiswiller, 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 Martin, 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 (Goatstown, 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 (Blagoveschensk (Amur Oblast), Russian Federation), Evgenya Y. Afanaseva, Olesya O. Kotova, Dina A. Gassan, Elizaveta G. Sheludko, Anna G. Prikhodko
**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)
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<td>Detection of Overlooked Pulmonary Metastases in Serial CT Scans through Deep Learning-based Tracking of Longitudinal Changes</td>
<td>Junghoon Kim (Seongnam-si, Gyeonggi-do, Republic of Korea), Dong Yul Oh, Kyong Joon Lee</td>
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<td>PA1862</td>
<td>Radiology quality assurance in a lung cancer screening trial</td>
<td>Claire Bradley (Letterkenny, Ireland), Martyn Kennedy, Michael Darby, Philip A J Crosbie, Rhian Gabe, Matthew E J Callister</td>
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<td>PA1863</td>
<td>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</td>
<td>Uliana Smolnikova (Saint Petersburg, Russian Federation), Pavel Gavrilov</td>
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<td>PA1864</td>
<td>Emphysema as a 'radiomic-biomarker' using low-dose computed tomography scans in high-risk smokers in an Australian cohort</td>
<td>Samantha Ennis (Sydney, Australia), Emily Stone, Elizabeth Silverstone, Brad Milner, Henry Marshall, Kwun Fong, Katrina Tonga</td>
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<td>PA1865</td>
<td>Emphysema subtypes and Preserved Ratio Impaired Spirometry in smokers</td>
<td>YUSUKE SHIRAISHI (Kyoto city, Japan), Naoya Tanabe, Takafuli Shimada, Kunihiko Terada, Hiroshi Shima, Fumi Mochizuki, Hiroaki Ijima, Motonari Fukui, Susumu Sato, Toyohiro Hirai</td>
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<td>PA1866</td>
<td>EARLY DIAGNOSIS OF LUNG VENTILATION EVENNESS DISORDERS USING NONINVASIVE IMAGING</td>
<td>Vyacheslav Kobylyansky (Moscow, Russian Federation), Aleksandra Horosheva, Kristina Solodovnikova</td>
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<td>PA1867</td>
<td>A value of ultrasonographic predictors of malignancy in left adrenal gland in lung cancer patients – a comparison of EUS-b, CT and PET-CT</td>
<td>Maciej Gnass (Myślence, Poland), Stanisław Orzechowski, Damian Czyżewski, Jacek Wojtacha, Juliusz Pankowski, Wojciech Zającki, Adam Cmiel, Marcin Zielinski, Artur Szlubowski</td>
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<td>PA1868</td>
<td>Application of technetium-99m-technetium in differentiation of active from inactive pulmonary tuberculosis using a single photon emission computed tomography method in children.</td>
<td>Stanislav Mikhailov (Moscow, Russian Federation), Stanislav Mikhailov, Andrey Perfiliev, Natalya Yukhimenko, Natalia Karpina, Rasul Amanskshedov, Atadzhan Ergeshov, Larisa Rusakova</td>
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<td>PA1869</td>
<td>Correlation between histological yield of intrathoracic nodal EBUS biopsy and SUVmax in 18F-FDG PET scan</td>
<td>Shahbaz Nazir (Cottingham, United Kingdom), Samiha Naureen, Sega Pathmanathan</td>
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<td>PA1870</td>
<td>PD-L1 expression correlation with metabolic parameters of 18F FDG PET/CT in non-small cell lung cancer&gt;</td>
<td>Aysu Sinem Koç (Izmir, Turkey), Efeğin Akgün, Reşit Akyel, Barış Demirkol, Kürşad Nuri Baydili, Pınar Akın Kabalak, Özlem Özmen, Şebnem Kıvanç, Funda Demirci, Nalan Akyürek, Erdoğan Çetinkaya</td>
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<td>PA1871</td>
<td>Automated volumetric quantification of lung emphysema: the effect of bronchiectasis and infectious lung destruction.</td>
<td>Nadezda Griva (Saint-Petersburg, Russian Federation), Pavel Gavrilov</td>
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<td>PA1872</td>
<td>A comparison of 129Xe MRI and advanced lung function testing in patients with asthma and /or COPD: The NOVELITY ADPro substudy</td>
<td>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 Hardt, Titti Fihn-Wikander, Rod Hughes, Jim Wild</td>
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<td>PA1873</td>
<td>COPD and Asthma Differentiation using Quantitative CT Biomarkers by Hybrid Feature Selection and Machine Learning</td>
<td>Amir Moslemi (Toronto, Canada), Konstantina Kontogianni, Miranda Kirby, Judith Brock, Franziska Trudzinski, Felix Jf Herth</td>
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<td>PA1874</td>
<td>Airway tree caliber across the adult lifespan</td>
<td>Motahareh Vameghestahbanati (Montreal, Canada), Eric Hoffman, Miranda Kirby, Jessica Sieren, Nerrina Allen, Alain Bertoni, Christopher Cooper, David Jacobs, Quayba Hamid, Meilan Han, Nadia Hansel, James Hogg, Dennis Jensen, Richard Kanner, Erin Michos, Elizabeth Oelser, Corallyn Sack, Karol Watson, David Cooper, Andrea Benedetti, Prescott Woodruff, Jean Bourbeau, Wan Tan, R. Graham Barr, Benjamin Smith</td>
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<tr>
<td>PA1875</td>
<td>Airway tree caliber heterogeneity and airflow obstruction</td>
<td>Motahareh Vameghestahbanati (Montreal, Canada), Leina Kingdom, Matthew Anacleto-Dabano, Eric Hoffman, Miranda Kirby, Nerrina Allen, Elsa Angelini, Alain Bertoni, Quayba Hamid, James Hogg, David Jacobs, Andrew Laine, Francois Maltais, Erin Michos, Corallyn Sack, Don Sin, Karol Watson, Artur Wysoczanski, Wan Tan, Jean Bourbeau, R. Graham Barr, Benjamin Smith</td>
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<td>PA1876</td>
<td>3D image analysis of the alveolar shape in human lungs</td>
<td>Alex Michael Reimelt (Hannover, Germany), Dragoş M. Vasilescu, Richard Beare, Lars Knudsen, Roman Grothausmann</td>
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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  
Katriina 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, Atsuhiro 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 Spoel, Catherine Bouman, Karin Van Dijk, Josie Altenburg

PA1881  
Surgical management of massive hemoptysis secondary to lung hydatidosis: tips and tricks  
Zied Chaari (Sfax, Tunisia), Abdessalem Bentati, Aymen Ben Ayed, Walid Abid, Imed Frihka

PA1882  
Invasive fungal infections in acute leukemia patients.  
Asli Öncel (Ankara, Turkey), Yahya Buyukasik, Omrur Uzun, Ahmet Ugrur Demir, Lutfü Coplu

PA1883  
Mohammed Alhajji (Riyadh, Saudi Arabia), Abdallah Moeireek, Mohammed Al Hajji, Ihab Weheba, Saud Alsaleh, Walid Rasheed, Liju Ahmed

PA1884  
Surveillance for invasive pulmonary aspergillosis in critically ill patients with COVID-19  

PA1885  
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 Rodrigues

PA1886  
Pulmonary infections in renal transplant recipients from tertiary care hospital, SIUT Pakistan  
Muhammad Jawad Nazmi (Karachi, Pakistan), Fakhir Haidri, Sohail Akhtar, Sunil Dodani, Ali Nadeem, Sobia Arbab, Isra Ikikhar, Jawawd Shah, Tahir Aziz, Adib Rizvi

PA1887  
Surgical management of lung hydatid cysts ruptured to the pleura  
Imen Bouassida (Ariana , Tunisia), mariem hadj dahmeh, Bechir Ben Radhia, Amina Abdelkbir, Sarra Maazaoui, Mouna Milka, Hazem Zribi, Sarra Zairi, Adel Marghli

PA1888  
Clinical and radiological features of pleural hydatidosis  
Ahmed Dhia EL-EUCH (Sfax, Tunisia), Med Imane Sidi Oumar, Moussa Nedia, Gargouri Rahma, Kallel Nesrine, Kotti Amina, Bahliou Najla, Feki Walid, Mсаed Sameh, Yangui Ilhems, Hajer Ayedi, Wajdi Ketata, Kammoun Samy

PA1889  
Lung and HIV  
Rajae Charkaoui (CASABLANCA, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam Elkhattabi, Hicham Afif

PA1890  
Clinical characteristic differences between pulmonary melioidosis and pulmonary tuberculosis with cavitory lesion  
Ho Lam Nguyen (Hô Chí Minh, Vietnam), Huyen Duong-Thanh, Hoa Le, Nhat-Thinh Le-Phu

PA1891  
Estrogen deficiency and its manifestations in pregnant women with exacerbation of chronic simple bronchitis of cytomegalovirus etiology  
Igor N. Gorikov (Blagoveshchensk (Amur Oblast), Russian Federation), Irina A. Andrievskaia, Natalia A. Ishutina, Inna V. Dovzhikova, Ksenia K. Petrova, Nikolay G. Prikhodko, Valentina I. Pavlenko, Victor P. Kolosov
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, Marrissa S. Jaakkola, Jouini J.K. Jaakkola, Bénédicte Leynaert*, Rachel Nadif*

PA1898 Chronic rhinosinusitis and occupational exposures
Jordan Minov (Skopje, North Macedonia), Sasho Stoleski, 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), Irnieli Lindström, Hille Suojalehto

PA1901 Quantitative CT adiposity metrics as predictors of reduced expiratory flow in WTC workers and volunteers
Rafael E. de la Hoz (New York, United States of America), Xiaoyu Liu, John Doucette, Anthony Reeves, Raúl San José Estépar, Yunho Jeon, Juan Celedón

PA1902 The role of IL 4, 5, 10, 13 and 8 Values in The Early Detection of Occupational Asthma Disease
Mehmet Fatih Elverisli (Düzce, Turkey), Pınar Yıldız Gülhan, Merve Erçelik, İbrahim Ethem Şahin, Ege Güleç Balbay, Seyit Coban, Halil Mehmet Karav, Dilşad Mungan, Peri Meram Arbak

PA1903 Occupational rhinitis and asthma in bakers: A cross-sectional study in DRCongo
Joseph PYANA KITENGÉ (Lubumbashi, Democratic Republic of the Congo), Paul Musa Obadia, Trésor Carsi Kuhangana, Tony Kayembe-Kitenge, Patent Nkulu Banza, Lilian Nsenga Mukanda , Pascal Nawej Tshimwang, Patrick Dnc Katoto, Celestin Banzankulu Lubaba, Abdon Mukalay Wa Mukalay, Benoit Nemery

PA1904 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
PA1905 Stay home; save lives; aid the diagnosis of occupational asthma.
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Christopher Huntley, Alastair Robertson, Gareth Walters

PA1906 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

PA1907 Occupational exposure as a predictor of asthma exacerbation – a multicenter multivariate logistical analysis.
Stefan Mihaicuta (Timisoara (Timis), Romania), Lucretia Udrescu, Angelica Tiotiu, Valentin Nadasan, Stefan Marian Fren\n
PA1908 Diagnostic model for occupational asthma induced by high-molecular-weight agents: A tertiary prevention tool
Eva Suarthana (Montréal (Québec), Canada), Olivier Vandenplas, Mahsa Taghiakhari, Jacques A. Pralong, Paramita Saha-

PA1909 Association between contact with animals during childhood and occupational asthma.
Aissa Sana (Sousse, Tunisia), Sridi Chaima, Maoua Maher, Haouari Walaa, Kacem Imen, Belhaj Noura, Chouchene

PA1910 Phenotypes of occupational asthma defined with induced sputum after specific inhalation challenge
Nicolas Migueres (Strasbourg, France), Olivier Vandenplas, Hille Suojalehto, Jolanta Walusiak-Skorupa, Xavier Munoz,

PA1911 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,

PA1912 Productivity loss and activity impairment in asthmatic patients
Amira Omrane (5000, Tunisia), Amira Omrane, Imen Touil, Olfa Jelassi, Raja Romdhani, Jalel Ayeb, Yosra Brahim,

Katelynn Dodd (Morgantown, United States of America), Jacek Mazurek

PA1914 Endotyping work-related asthma
Hille Suojalehto (Helsinki, Finland), Joseph Ndika, Irmeli Lindström, Liisa Airaksinen, Piia Karisola, Harri Alenius

PA1915 Late Breaking Abstract - The impact of the reduction of environmental pollution during COVID-19 lockdown on healthy individuals (POLCOV Study)
Miquel de Homdedeu Cortes (Barcelona, Spain), Christian Romero, David Soler, Carlos Gómez, David Espejo, Iñigo

Pre-congress content Session 238 13:15 - 14:15
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), Athénais Boucly (Le Kremlin Bicêtre, France)

PA1916 Understanding of palliative care among people affected by Pulmonary Hypertension
Iain Armstrong, 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
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

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, Stéphanie 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

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 Martín-Ontiyuelo, Olga Tura, Isabel Otero-Gonzalez, Pilar Escribano-Subías, Joan Albert Barberà

Effect of short-term oxygen therapy on exercise performance in patients with cyanotic congenital heart disease
Stéphanie Saxer (Zürich, Switzerland), Luigi-Riccardo Calendo, Mona Lichtblau, Julian Müller, Arcangelo Carta, Fiorenza Gautschi, Charlotte Berlier, Esther Schwarz, Konrad Bloch, Matthias Greutmann, Silvia Ulrich

Outcomes of patients with decreased arterial oxyhaemoglobin saturation on pulmonary arterial hypertension drugs
Simon Valentim (Nancy, France), Arnaud Maurac, Olivier Sitbon, Antoine Bournier, Emmanuel Gomez, Anne Guillamout, Laura Textoris, Renaud Fay, Laurent Savale, Xavier Jaïs, Davis Montani, Francois Picard, Jean-François Mornex, Grégoire Prevot, François Chabot, Marc Humbert, Ari Chaouat

Critical care outcomes in patients with pre-existing pulmonary hypertension: insights from the ASPIRE registry
Robin Condliffe (Sheffield (South Yorkshire), United Kingdom), Kris Bauchmuller, Jennifer Southern, Catherine Billings, Athanasios Charalampopoulos, Charlie Elliot, Abdul Hameed, David Kiely, Ian Sabroe, Roger Thompson, Ajay Raithatha, Gary Mills

Prognostic value of renal doppler in acute decompensated precapillary pulmonary hypertension
Jérémie Pichon (Paris, France), Charles Faurel, Anne Roche, Athénaïs Boucly, Xavier Jaïs, Mitja Jevnikar, Nathan Ebstein, Olivier Sitbon, David Montani, Marc Humbert, Laurent Savale

Gas exchange impairment in COPD with severe pulmonary hypertension
Lucilla Piccari (Barcelona, Spain), Isabel Blanco, Yolanda Torralba, Ebymar Arismendi, Concepción Gistau, Ana Ramírez, 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), Lidiđa 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 Scoggin, 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

Drug-drug interaction study between zamicastat and furosemide in healthy subjects
Ana Santos (Coronado, Portugal), Ana Santos, Luis Magalhães, Andreia Guimarães, Helena Gama, Paulo Magalhaes, Patrício Soares-Da-Silva

Biological quality control and core laboratory considerations for CPET in a clinical trial of ralinepag in patients with pulmonary arterial hypertension: ADVANCE CAPACITY
Janos Porszasz (Torrance, United States of America), Louis Holdstock, Susan Blonshine, Richard Casaburi, David Yehle, Maureen Cunningham, Jason Blonshine, Ronald Oudiz, Marco Guazzi, Fernando Torres, Raymond Benza, Jean Luc Vachieri

Pulmonary artery radiofrequency ablation in an acute porcine model of pulmonary arterial hypertension
Natalia Goncharova (Saint-Petersburg, Russian Federation), Heber Ivan Condori Leandro, Aleksandr Vakhrushev, Yury Skorik, Lada Murashova, Lev Korobchenko, Elizaveta Andreeva, Lubov Mitrofanova, Elena Koshevaya, Dmitrij Lebedev, Olga Moiseeva, Evgeny Mikhailyov

Prospective 3D echocardiographic analysis of RV remodeling and contractility in PH Patients
Timothee Lambert (Rouen- Le Havre, France), Timothee Lambert, Bouchra Lamia, Angelique Picard, Mathilde Azzi, Fatoi Bidar, Philippe Bonnet, Bouchra Lamia
MRI metric lung parenchyma T1 indicates lung pathology in patients with pulmonary hypertension.
Andy Swift (Sheffield (South Yorkshire), United Kingdom), Laura Saunders, David Capener, Robin Condiffe, David Kiely, Jim Wild

Late Breaking Abstract - Implications of new PH definition for CTEPD
Ashwin Reddy (Cambridge, United Kingdom), Emilia Swietlik, Lucy Robertson, Alice Michael, Sonja Boyle, Gary Polwarth, Dolores Taboada, Charaka Hadinnapola, John Cannon, Karen Sheares, Mark Toshner, Joanna Pepke-Zaba

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 care Surgery

Chairs: Paul Marsden (Manchester (Greater Manchester), United Kingdom), Lowie G.W. Vanfleteren (Gothenburg, Sweden)

Bronschoscopy and laryngoscopy findings in refractory chronic cough (RCC)
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, Jacky Smith, Jemma Haines, Sarah Hennessy, 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, Agnì Sioutkou, Sofia Peristeri, Evgenia Salla, Christos Kyrakiopoulos, 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

Productive Cough, a Forgotten Phenotype of Refractory Chronic Cough
Jenny King (Manchester (Greater Manchester), United Kingdom), James Wingfield Digby, Sarah Hennessy, Paul Marsden, Jaclyn Smith

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 Durakbas, Saniye Girit

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

Modelling Rhinovirus-16 (RV16) Infection using Human Precision Cut Lung Slices (PCLS)
Rebecca Stinson (Hull, United Kingdom), Alyn Morice, Laura Sadofsky

Measuring peripheral lung dimensions with the deposition of aerosol nanoparticles
Madeleine Petersson Sjögren (Lund, Sweden), Laura Aaltenon, Jonas Jakobsson, Jenny Rissler, Per Wollmer, Jakob Löndahl

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
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 Rio

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

Bone turnover markers, bone mineral density and body composition in Tunisian patients with chronic obstructive pulmonary disease
Amir Taboubi (Béja, Tunisia), Meriem Mjid, Sameh Hadji Taieb, Abir Hedhli, Yacine Ouahchi, Sana Cheikh Rouhou, Wafa Hamdi, Kaouthour Maatallah, Samira Merai, Moncef Fekih, Sonia Toujani, Besma Dhaehri

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), Meriem Mjid, Lilia Laadhar, Imene Ayadi, Abir Hedhli, Yacine Ouahchi, H Aoudani, Sana Cheik Rouhou, Samira Merai, Maryam Sellami, Sonia Toujani, Besma Dahbri

Airway length per generation in the human healthy lung and the impact of COPD

Insulin-Like Growth Factors and IGF-Binding Proteins levels in serum from smokers and patients with different grades of COPD, COPD lung cancer and exacerbated COPD
Iciar Paula Lopez (Logroño (La Rioja), Spain), Elvira Alfaro-Arnedo, Marta Canalejo, Alfredo Ruiz-Martinez, Andreas Hoeflich, Christine Höflich, Carolina Gotera, German Peces Barba, Jose G Pichel

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

Community-acquired pneumonia in COVID-19 positive children: monitoring the clinical course
Zoia Nesterenko (Lugansk, Ukraine), Natalia Prokopeva

The course of pulmonary TB in children with COVID-19
Irina Petakova (Moscow, Russian Federation), Marina Gubkina, Natalya Yukhimenko, Yuliya Khokhlova, Svetlana Sterlikova

Comparative clinical analysis of COVID-19 pneumonia and bacterial pneumonia
Natalya Konurkina (Krasnoyarsk, Russian Federation), Natalya Ilenkova

Pulmonary outcome post COVID-19 in children: the role of the lung ultrasound
Ioana Mihaiela Ciucu (Timisoara (Timis), Romania), Mihaela Dedu, Flavian Nicolae Mircov, Maria Budnic, Diana Ragogete, Ramona Chelcea, Diana Popin, Miheea Baloi, Mirabela Maria Lukic

Bronchiolitis prevalence rates in Congenital Diaphragmatic Hernia: a systematic review and meta-analysis
Leonie Lewis (Liverpool, United Kingdom), Paul Losty, Ian Sinha
PA1960 Molecular genetic characterization of Klebsiella pneumoniae isolates from a lower respiratory tract in children in intensive care unit in Moscow
Irina Novikova (Moscow, Russian Federation), Natalia Alyabieva, Zulfirya Sadeeva, Anna Lazareva

PA1961 Clinical and radiological features can help predict Mycoplasma pneumoniae lower respiratory tract infection in children
Špela Dolenc (Lj. - Šentvid, Slovenia), Darja Keše , Malena Aldeco , Uroš Krivec, Ana Kotnik Pirš , Dušanka Lepej, Marina Prapotnik, Saša Šetina Šmid, Aleksandra Zver, Jasna Rodman Berlot

PA1962 Chlamydia pneumoniae and Mycoplasma pneumonia infection in children respiratory diseases
Svetlana Sciuca (Chisinau, Republic of Moldova), Ludmila Balanetchi, Consuela Adam, Rodica Selecevstru, Ianos Adam, Diana Rotaru-Cojocari, Liuba Neamtu

PA1963 Prevalence of hyponatremia (HN) in children with community acquired pneumonia (CAP) and its relation to disease severity, outcomes
Yasmin Saied Aly (Cairo, Egypt), Mona Mohsen, Mohammed Khalil, Doaa Salah

PA1964 Role of clinical criteria and oxygen saturation (SpO2) monitoring in the diagnosis of pneumonia in children aged 2 to 59 months
Rashmi Ranjan Das (Bhubaneswar (Odisha), India), Amit Kumar Satapathy, Samarendra Mahapatro, Aparna Mukherjee, Jagdish Prasad Goyal, Javeed Iqbal Bhat, Vinod H Ratageri, Bhadresh Vyas

PA1965 Management of pneumonia in emergency department: utility of chest radiography reviewed by a pediatric pneumologist and a pediatric radiologist.
Michele Ghezzi (Bergamo, Italy), Martina Pascuzzi, Luisa Lonoce, Andrea Farolfi, Salvatore Zirpoli, Marco Morelli, Gian Vincenzo Zuccotti

PA1966 The knowledge, attitude and practices of childhood pneumonia of parents in slum area of Pakistan
Abdul Mannan Mustafa (Multan, Pakistan), Ghulam Mustafa

PA1967 Necrotizing pneumonia in children: Report of 27 cases in a Spanish hospital over 17 years
Silvia Carbonell-Sahuquillo (valencia, Spain), Andrés Piolatti-Luna, José Rafael Bretón-Martínez , Silvia Castillo-Corullón

PA1968 Evolution of cytokines/chemokines in cases with severe nosocomial pneumonia and distinct etiologies in mechanical ventilated patients.
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Dmytro Dmytryiev, Oleksandr Nazarchuk, Yulia Babina, Kateryna Dmytryieva

Pre-congress content Session 241 13:15 - 14:15
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)

PA1969 Elastofibroma: A rare neoplasm of the chest wall
Kalliopi Athanassiadi (Athens, Greece), Evangelia Liverakou, Ioannis Alevizakis, Evangelia Chatzimichali, Aikaterini Katsandri, Ioannis Provatas, Giorgos Liadakis

PA1970 Complex treatment of widespread destructive pulmonary tuberculosis using innovative technology of the main bronchial stump treatment during pneumonectomy
Genrik Asoyan (Moscow, Russian Federation), Mamed Bagirov, Svetlana Sadovnikova , Dmitry Prohodcov , Nina Nikitina, Raml Penagi, George Chitorelidze

PA1971 Pyothorax in children: surgical management
mahdi Abdennadher (Ariana, Tunisia), ghazouani atef, Abdennadh Mahdi, Sahnoun Imen, Zribi Hazem, Zairi Sarra, Bouacida Imen, Ouerghi Sonia, Mezni Faouzi, Marghli Adel

PA1972 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 Radhia, Aida Ayedi, Sonia Ouerghi, Adel Marghli

PA1973 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

ERS Virtual International Congress 2021 DETAILED PROGRAMME MONDAY 06 SEPTEMBER, 2021
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
Kalliopi Athanassiadi (Athens, Greece), Evangelia Vlahakou, Vasileios Chatzimichali, Andriana Papapostolou, Apostolos Papas, Aikaterini Katsandri, Dimitrios Magouliotis, Andreas-Stylianos Asimakos, Niki Gianniotou, Paraskevi Katsaounou

Management of post-traumatic empyema
mahdi Abdennadher (Ariana, Tunisia), ghazouani atef, Abdennadh Mehdi, Zairi Sarra, Bouacida Imen, Sahnoun Imen, Touiaiba Maha, Ouerghi 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 Maidi

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 Yoldaş (İzmir, Turkey), Serkan Yazgan, Ezgi Çelik, 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, Nikolaos Anastasiou

Benign bone tumors of the chest wall: a report of 17 cases
mahdi Abdennadher (Ariana, Tunisia), Kaouthen 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 Abdelkbir, Hazem Zribi, Bechir Ben Rathia, Sarra Zairi, Taher Mestiri, Aida Ayedi, 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

What should Pulmonary Rehabilitation (PR) look like for adults living with post-TB lung disease (PTBLD) in Kyrgyzstan? A qualitative study
Gulzada Mirzalieva (Bishkek, Kyrgyzstan), Maamed Mademilov, Zainab K. Yusuf, Mark W. Orme, Claire Bourne, Amy V. Jones, Ruhme B. Miah, Azamat Akylbekov, Rupert Jones, Andy Barton, Dominic Malcolm, Talant Sooronbaev, Sally J. Singh

Acute exacerbation of COPD- What symptoms bothers patients the most: A survey study
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh
PA1988 Maintenance strategy preferences following pulmonary rehabilitation (PR) for patients with chronic respiratory disease (CRD): A Survey
KHALED ALQAHTANI (Leicester, United Kingdom), Linzy Houchen-Wolloff, Sally Singh

PA1989 Responsiveness and MID estimates for isokinetic quadriceps endurance in COPD patients following pulmonary rehabilitation
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

PA1990 Frequency of depressive syndrome in patients with bronchial asthma and chronic obstructive pulmonary disease
Shahboskhon Akhmedov (Tashkent, Uzbekistan)

PA1991 Outcomes of pulmonary rehabilitation after lung resection in patients with lung cancer
Nimet Aksel (Izmir, Turkey), Hulya Sahin, Ilknur Naz Gursan, Filiz Guldaval, Mine Gayaf, Serkan Yazgan, Kenan Can Ceylan

PA1992 A comparison of respiratory muscle endurance, respiratory muscle endurance workload, and quality of life in low and high-fatigue colorectal cancer survivors
Mehmet Fatih Sanver (Ankara, Turkey), Naciye Vardar-Yağltı, Melda Sağlam, Haluk Tekerlek, Ebru Çalık-Kütükçü, Deniz Inal-Ince, Saadettin Kılıçkap

PA1993 Late Breaking Abstract - Uneven improvement of functional and ventilatory status of Covid-19 patients after discharge from hospital
Richard Haouchan (Beirut, Lebanon), Antoine Kik, Elie Ghayad, Hind Eid, Marc Raad, Albert Riachy, Elio Mkheal, Fadi Haddad, Georges Khayat, Ghassan Sleilaty, Moussa Riachy

PA1994 Assessment of the currently available reference equations for the 6-minute walk in breast cancer survivors living at 2630 meters altitude.
Diana Carolina Zona Rubio (Bogota, Colombia), Sol Angie Romero, Teddy Anagrita-Sierra, Ana Isabel Garcia Muñoz, Steve Fernando Pedroza, Laura Yañez, Maria Alejandra Rubio, Oscar Rubiano, José Gabriel León, Carlos Mejía Arbelaez, Olga Lucia Sarmiento

PA1995 Adaptive capacities and complexity of heart rate variability in patients with Chronic Obstructive Pulmonary Disease throughout pulmonary rehabilitation
Louis Hognon (Montpellier, France), Nelly Heraud, Alain Varray, Kjerstin Torre

PA1996 The value of a post-poly syndrome self-management programme
Alexandra Curtis (London, United Kingdom), Jeong Su Lee, Georgios Koltsakas, Vivian Auyeung, Simon Shaw, Nicholas Hart, Joerg Steier

PA1997 Screening for a strategic shift to pulmonary telerehabilitation for non-COVID-19 patients.
Catarina Duarte Santos (Almada, Portugal), Fátima Rodrigues, Cátia Caneiras, Cristina Bárbara

PA1998 Effectiveness of telephone monitored home exercise for patients with COPD
Lisa Pritchard (London, United Kingdom), Charlene Goh, Lynn Mcdonnell, Lauren Hogg, Laura Moth

PA1999 Respiratory function in chronic stroke patients: an observational study.
Esther Prados Román (Granada, Spain), Irene Cabrera Martos, Mónica Zapata Soria, Araceli Ortiz Rubio, Andrés Calvache Mateo, Marie Carmen Valenza

PA2000 A prospective dual-cohort study of Respiratory and Palliative Care for patients with advanced lung disease
Julie McDonald (, Australia), David Marco, Rebecca Howard, Euan Fox, Laura Booth, Jennifer Weil, Mark Boughey, Natalie Pollar, Una Mckeever, Matthew Conron

PA2001 Mechanical insufflation-exsufflation use in neuromuscular disease: A single centre cohort study
Neeraj Shah (New Malden (Surrey), United Kingdom), Georgios Koltsakas, Shauna Sheridan, Emily Ballard, Chloe Apps, Michelle Ramsay, Shelley Srivastava, Eui-Sik Suh, Rebecca D'Cruz, Mike Mackie, Nick Weston, Nicholas Hart, Patrick Murphy

PA2002 EFA technology efficacy on oropharyngeal secretions management in subjects with DOC
Alessandra Cima (Lesmo, Italy), Manuela Locatelli, Alessandra Cima, Francesco D'Abrosca

PA2003 Late Breaking Abstract - PULMONARY REHABILITATION IN POST - COVID SUBJECTS WITH MODERATE LUNG RESTRICTION, A CASE SERIES.
Camilo Corbellini (Rivoli (TO), Italy), Jorge Villafane, Elisa Gugliotta, Saverio Trevella, Stefano Zampese, Paolo Pessina, Riccardo Monti, Cosimina Carnuccio, Eleuterio A. Sanchez Romero, Roberto Meroni

PA2004 Maximal inspiratory pressure in older than 74 years hospitalized by acute disease: Preliminary results of the AGECAR PLUS Study (NTC 03604640).
Teresa Zarralanga (Madrid, Spain), Jennifer Mayordomo, Sofía González, Cristina Carrasco, Johanna Vásquez, Fernando Gómez-Olano, Iván Ariza, Gabriel Rodriguez-Romo, Javier Ortiz, José Antonio Serra
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>PA2005</th>
<th>The journey to bronchiectasis diagnosis and care: an EMBARC/ELF patient survey</th>
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<tr>
<td>Arietta 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>
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<tr>
<th>PA2006</th>
<th>Translation and validation of the Quality-of-Life Bronchiectasis questionnaire in Swedish, and correlation with clinical outcomes.</th>
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<tr>
<td>Pia Ghosh (Stockholm, Sweden), Ingrid Gerhardson, Roelinde Middelveld, Alexandra Ek, Amalia Panagiotou, Sven-Erik Dahlén, Barbro Dahlén, Apostolos Bossios</td>
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<tr>
<th>PA2007</th>
<th>Nebulized saline treatment in patients with concomitant asthma and bronchiectasis</th>
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<tr>
<td>ELENA AVALOS PEREZ-URRIA (Madrid , Spain), Carolina Victoria Cisneros, Rosa Maria Girón , Ana Sanchez Azofra, Celeste Marcos, Tamara Alonso, Gorane Iturricastillo , Ana Martinez Meca, Julio Ancochea</td>
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<tr>
<th>PA2008</th>
<th>Vestibular function in adult patients with primary ciliary dyskinesia</th>
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<tr>
<td>Niels Wintherøk (Copenhagen, Denmark), Mikkel Christian Alanin, Kim Gjerum Nielsen, Christian Von Buchwald, Sune Land, Bloch</td>
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<tr>
<th>PA2009</th>
<th>Bronchiectasis severity assessment tools to predict clinical outcomes in the Indian Bronchiectasis Registry</th>
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<tr>
<td>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, Megan Crichton, James D. Chalmers, Sneha Limaye, Sundeep Salvi</td>
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<tr>
<th>PA2010</th>
<th>FACED and BSI concordance in predicting bronchiectasis severity</th>
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<tr>
<td>Asma Jarrar (Tunis, Tunisia), Haifa Zaibi, Emma Ben Jemia, Hend Ouertani, JiHen Ben Amar, Hichem Aouina</td>
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<tr>
<th>PA2011</th>
<th>Contribution of BSI and FACED scores in prediction of bronchiectasis mortality</th>
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<tr>
<td>Asma Jarrar (Tunis, Tunisia), Haifa Zaibi, Emma Ben Jemia, Ameni Naaroura, JiHen Ben Amar, Hichem Aouina</td>
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<tr>
<th>PA2012</th>
<th>Bronchiectasis exacerbations risk prediction using severity scales BSI and FACED</th>
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<tr>
<td>Asma Jarrar (Tunis, Tunisia), Haifa Zaibi, Emma Ben Jemia, Hend Ouertani, JiHen Ben Amar, Hichem Aouina</td>
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<tr>
<th>PA2013</th>
<th>Elevated blood eosinophils in bronchiectasis: A distinct phenotype?</th>
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<tr>
<td>Nouha Boubaker (Nabeul, Tunisia), Sabrine Louhaichi, Ikbel Khalifallah, Mariem Ferchichi, Safa Belkhir, Jamel Ammar, Besma Hamdi, Agnés Hamzaoui</td>
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<tr>
<th>PA2014</th>
<th>Analysis of the Effect of pneumococcal vaccination in patients with COPD in combination with bronchiectasis</th>
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<td>Elena Blinova (Chelyabinsk (Chelyabinsk Oblast), Russian Federation), Galina Ignatova</td>
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<tr>
<th>PA2015</th>
<th>Exacerbations in non-cystic fibrosis bronchiectasis (NCFB): is there a difference between self-reported events and those defined by the criteria in the literature?</th>
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<tr>
<td>Monica Corso Pereira (Campinas (SP), Brazil), Jessica de Campos Medeiros, Àdria Cristina Da Silva</td>
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<tr>
<th>PA2016</th>
<th>Analysis of the daily symptom profile of patients with non-cystic fibrosis bronchiectasis (NCFB) using a symptom diary.</th>
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<td>Monica Corso Pereira (Campinas (SP), Brazil), Jessica de Campos Medeiros, Ádria Cristina Da Silva</td>
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<tr>
<th>PA2017</th>
<th>Assessment of health-related quality of life in patients with bronchiectasis colonized by Pseudomonas aeruginosa</th>
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<tr>
<td>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</td>
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<tr>
<th>PA2018</th>
<th>Risk stratifying pleural infection using RAPID score in an Asian population</th>
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<tr>
<td>Charles Wong (Hong Kong, Hong Kong), Loletta Kit-Ying So, Loretta Yin-Chun Yam</td>
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<tr>
<th>PA2019</th>
<th>Identification of microbiome etiology associated with drug resistance in pleural empyema</th>
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<tr>
<td>Jinhua Liang (nanning, China), Zhaoyan Chen, Hang Cheng, Zhao Cai, Qingjun Wei, Jinlong Li, Wenshu Zhang, Zhijian Yu, Dongjing Liu, Lei Liu, Zhenqiang Zhang, Wang Ke, Liang Yang</td>
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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.

Method(s): 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 (Oriivesi, Finland), Tytti 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 (Abberdeenshire), 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 Zinchenko

PA2029 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, Frits Franssen, Emiel Wouters, Marie-Kathrin Breyer

Antonis Michanikou (Nicosia, Cyprus), Panayiotis Kouis, Panelopi Anagnostopoulou, Emmanouil Galanakis, Eleni Michaelidou, Helen Dimitriou, Andreas M. Matthaiou, Paraskevi Kinni, Souzana Achilleos, Harris Zacharatos, Stefania I. Papatheodorou, Petros Koutrakis, Georgios K. Niikolopoulos, Panayiotis K. Yiallouros

PA2031 Prospective assessment of pediatric asthma morbidity in Cyprus and Greece during COVID-19 lockdown measures in Spring 2020

PA2032 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 Casaulta, Nicolas Regamey, Alexander Moeller, Myrofora Goutaki, Claudia Kuehni

PA2033 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
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<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA2034</td>
<td>Postnatal diuretics, growth and home oxygen requirement in preterm infants</td>
<td>Emma Williams (London, United Kingdom), Emma Williams, Theodore Dassios, Shannon Gunawardana, Nicholas Donaldson, Anne Greenough</td>
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<td>PA2035</td>
<td>Use of postnatal corticosteroids and weight gain in extremely prematurely born infants</td>
<td>Emma Williams (London, United Kingdom), Emma Williams, Theodore Dassios, Mikaela Mann, Anne Greenough</td>
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<td>PA2036</td>
<td>Respiratory morbidity and lung function in moderate and late preterm infants during the first six years of life.</td>
<td>Laura Camats Marsol (SAN SEBASTIAN, Spain), Ines De Mir Messa, Olaia Sardón Prado, Paula Corcuera Elosegui, Ignacio Iglesias Serrano, Sandra Rovira-Amigo, Javier Korta Murua, Antonio Moreno-Galdó</td>
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<tr>
<td>PA2037</td>
<td>Impact of Bronchopulmonary Dysplasia on Functional and Structural Change in Lung of School-aged Children</td>
<td>Ji Ye Jung (Seoul, Republic of Korea), Jeong Eun Shin, Mi-Jung Lee, Soo Yeon Kim, Jungho Han, Kyung Won Kim</td>
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<td>PA2038</td>
<td>Teaching Air Pollution to Children - Clinical research and education colliding</td>
<td>Abigail Whitehouse (London, United Kingdom), Jonathan Grigg</td>
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**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)

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<tr>
<th>Title</th>
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<tbody>
<tr>
<td>Establishment of a human in vitro model for airway epithelial repair and regeneration</td>
<td>Ashesh Chakraborty (Munich, Germany), Ashesh Chakraborty, Michal Mastalerz, Rudolf Hatz, Jürgen Behr, Michael Lindner, Anne Hilgendorff, Claudia Staab-Weijnitz</td>
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<tr>
<td>LSC - 2021 - Establishment of a human in vitro model for airway epithelial repair and regeneration</td>
<td>Ashesh Chakraborty (Munich, Germany), Chakraborty Ashesh, Michal Mastalerz (<a href="mailto:michal.mastalerz@helmholtz-muenchen.de">michal.mastalerz@helmholtz-muenchen.de</a> / Comprehensive Pneumology Center, University Hospital of the Ludwig-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany,Munich), Rudolf Hatz (<a href="mailto:Rudolf.Hatz@med.uni-muenchen.de">Rudolf.Hatz@med.uni-muenchen.de</a> / Thoraxchirurgisches Zentrum, Klinik für Allgemeine-, Viszerale-, Transplantations-, Gefäß- und Thoraxchirurgie, Klinikum Großhadern, Ludwig-Maximilians-Universität (LMU),Munich), Jürgen Behr (<a href="mailto:Juergen.Behr@med.uni-muenchen.de">Juergen.Behr@med.uni-muenchen.de</a> / 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 (<a href="mailto:m.lindner@salk.at">m.lindner@salk.at</a> / Comprehensive Pneumology Center, University Hospital of the Ludwig-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 Hilgendorff (<a href="mailto:A.Hilgendorff@med.uni-muenchen.de">A.Hilgendorff@med.uni-muenchen.de</a> / Comprehensive Pneumology Center, University Hospital of the Ludwig-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany, Member of the German Center of Lung Research, Munich, Germany,Munich), Claudia Staab-Weijnitz (<a href="mailto:staab-weijnitz@helmholtz-muenchen.de">staab-weijnitz@helmholtz-muenchen.de</a> / Comprehensive Pneumology Center, University Hospital of the Ludwig-Maximilians-University Munich and Helmholtz Zentrum München, Member of the German Center for Lung Research, Munich, Germany,Munich)</td>
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<td>EGR-1 as a potential biomarker in asthma and proinflammatory responses in airway epithelium</td>
<td>Kornel Golebski (Amsterdam, Netherlands), Mario Gorenjak, Michael Kabesch, Anke-Hilse Maitland-Van Der Zee, Erik Melén, Uroš Potočnik, Susanne Reinartz, Elisangela Santos Valente, Susanne Vijverberg, Cornelis Van Drunen</td>
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<td>Modelling the molecular effects of cannabis extracts on human airway epithelial tissue</td>
<td>Neil Skjodt (Lethbridge (AB), Canada), Bo Wang, Dongping Li, Anna Fiselier, Rocio Rodriguez-Juarez, Olga Kovalchuk, Igor Kovalchuk</td>
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<tr>
<td>A 3D tissue-engineered airway model for the assessment of epithelial responses to novel nanotherapeutics</td>
<td>Luis Soriano (Dublin, Ireland), Rachel Gaul, Fergal J. O’Brien, Cian O’Leary, Sally-Ann Cryan</td>
</tr>
<tr>
<td>LSC - 2021 - Effect of mTOR inhibition in a 3D in vitro model of alveolar epithelium and epithelial regeneration</td>
<td>Manuela Platé (London, United Kingdom), Demetra-Ellie Phylactopulos (<a href="mailto:ephylact@yahoo.com">ephylact@yahoo.com</a> / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London,London), Sarah E Clarke (<a href="mailto:sarah.e.clarke@ucl.ac.uk">sarah.e.clarke@ucl.ac.uk</a> / Lungs For Living Research Centre, UCL Respiratory, University College London,London), Robert E Hynds (<a href="mailto:roh.hynds@ucl.ac.uk">roh.hynds@ucl.ac.uk</a> / CRUK Lung Cancer Centre of Excellence, UCL Cancer Institute, University College London,London), Sam M Jans (<a href="mailto:s.jans@ucl.ac.uk">s.jans@ucl.ac.uk</a> / Lungs For Living Research Centre, UCL Respiratory, University College London,London), Rachel C Chambers (<a href="mailto:r.chambers@ucl.ac.uk">r.chambers@ucl.ac.uk</a> / Centre for Inflammation and Tissue Repair, UCL Respiratory, University College London,London)</td>
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The development of a bioengineered composite 3D-printed scaffold for tracheal regeneration.

Cian O’Leary (Dublin 2, Ireland), Tehreem Khalid, Mark Lemoine, Sally-Ann Cryan, Fergal O’Brien

LSC - 2021 - Three-dimensional niches for the physiological-like expansion of a lung mesenchymal stromal cell subpopulation

Arturo Ibañez Fonseca (Lund, Sweden), Måns Kadeffors (mans.kadeffors@med.lu.se / Lung Biology Team, Lund University,Lund), Linda Eloowsson Rendin (linda.elowsson_rendin@med.lu.se / Lung Biology Team, Lund University,Lund), Zackarias Söderlund (zackarias.soderlund@med.lu.se / Lung Biology Team, Lund University,Lund), Sara Rolandsson Enes (sara.rolandsson_enes@med.lu.se / Lung Biology Team, Lund University,Lund), José Carlos Rodriguez-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)

Modelling immune cell migration in the lung using a microfluidic hydrogel barrier

Lisette van Os (Bern, Switzerland), Olivier Guenat

LSC - 2021 - Modeling idiopathic pulmonary fibrosis using induced pluripotent stem cell-derived alveolar epithelia l organoids

Victoria Ptasinski (Malmö, Sweden), Susan Monkley (susan.monkley@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden,Gothenburg), Markus Tamnia (markus.tamnia@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden,Gothenburg), Karolina Öst (karolina.oest@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), 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), Svenska, Lund, Sweden, Wallenberg Center for Molecular Medicine, Lund University,Lund, Sweden, Lund Stem Cell Center, Lund University,Lund, Sweden, Lund), Lynne A Murray (lynne.murray1@astrazeneca.com / Research and Early Development, Respiratory & Immunology, BioPharmaceuticals R&D, AstraZeneca, Cambridge, United Kingdom)

LSC - 2021 - Lung-on-a-chip device for modelling of ventilator induced lung injury

Emil Rehnberg (Lund, Sweden), Sinem Tas (sinem.tas@med.lu.se / Lung Bioengineering and Regeneration, Experimental Medical Sciences, Lund University,Lund), Deniz Bölükbas (deniz.bolukbas@med.lu.se / Lung Bioengineering and Regeneration, Experimental Medical Sciences, Lund University,Lund), Anna 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@utwente.nl / Soft Matter, Fluidics and Interfaces, MESA+ Institute for Nanotechnology, University of Twente, Enschede, 75222.2, Enschede), Jonas O. Tegenfeldt (jonas.legenfeldt@ttf.lth.se / Division of Solid State Physics and NanoLund, Physics Department, Lund University,Lund), Darcy E. Wagner (darcy.wagner@med.lu.se / Lung Bioengineering and Regeneration, Experimental Medical Sciences, Lund University,Lund)
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), Wim G. Boersma (Alkmaar, Netherlands)

The prevalence and impact of autoantibodies among people with bronchiectasis: a data analysis of the EMBARC registry

Michal Shteinberg (Haifa, Israel), Eva Polverino, Pierre-Regis Burgel, Charles Haworth, Katerina Dimakou, Adam Hill, Michael Loebinger, Rosario Menendez, Antony Torres, Tobias Welte, Francesco Blasi, Felix Ringshausen, Anthony De Soyza, Monserrat Vendrell, Amelia Shoemark, Josie Altenburg, Wim Boersma, Robert Wilson, James Chalmers, Stuart Elborn, Stefano Aliberti, Pieter Goeminne

Characterizing Neisseria spp. as novel respiratory pathobionts in bronchiectasis

Michał Mac Aogáin (Singapore, Singapore), Li Liang, Tengfei Xu, Tavleen Jaggi, Louisa L Y Chan, Holly R Keir, Alison J Dicker, Jing Qu, Yingzi Liu, Hong Sheng Cheng, Mariko Siyue Koh, Thun How Ong, Albert Lim Yick Hou, John Arputhan Abisheganaden, Teck Boon Low, Brian G Oliver, Nguan Soon Tan, Mingliang Fang, James D Chalmers, Sanjaya Chotirmall

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 Ringshausen, Anthony De Soyza, 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, Nourelhouda Khezami, Nidhal Belloumi, Fatma Chermiti, Soraya Fenniche
Features of post-tuberculosis bronchiectasis: Tunisian comparative study
Hana Mrassi (Tunis, Tunisia), Imen Bachouch, Nourelhouda 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 Amarro Rodriguez, Leticia Bueno Freire, Nil Vázquez, Laia Fernández-Barat, Antoni Torres Martí

Long –term survival after a first hospitalization for bronchiectasis exacerbation
Blanca Urrutia Royo (Barcelona, Spain), Ignasi García-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 Kaiss, 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, Souhir Kaiss, Jihene Ayeb, Kneni Jalel, Leila Boussofara

Bronchiectasis surgery: indications and risk factors?
Zied Chaari (Sfax, Tunisia), Abderrahmen Ammar, Walid Abid, Abdessalem Hentati, Imed Frikha

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, Zhenguowang, 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 Stelmach, Regina Carvalho Pinto, Rodrigo Athanazio

Predictive factors of bronchiectasis acute exacerbation severity
Ahmed Ben Saad (Monastir, Tunisia), Rania Kaddoussi, Asma Migadou, Nesrine Fahem, Samah Joobeur, Saousen Cheikh Mhamed, Naceur Rouatbi

Sleep insomnia pattern and COVID-19: a snapshot of in-hospital patients
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 Leuchzinger, 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 Schwarzl, 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, Beatriz Gonzalez Quero, Larraitz Garcia Echeverria, Ana Gomez Larrauri, Valentín Cabriaña Nuño

Sleep disorders in healthcare workers (HCWs) working in the frontline during the first wave of the COVID-19 pandemic

Evaluation of sleep disorders among healthcare personnel treated for COVID-19 at Hassan II Hospital in Agadir.
Fatihah Bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane

Sleep apnea patients report neglected care during COVID-19 pandemic
Christina Alexopoulou (Heraklion (Crete), Greece), Dimitrios Kyrou, Dimitra Siopis, Anastasia Amfiochiou, Paschalis Steiropoulos, Athanasia Pataka, Athanasios Voulgaris, Georgia Trakada, Athina Georgopoulou, Georgia Varsou, Anastasias Chasiotou, Eumorfia Kondili, Christina Karanamidou, Pantelis Natsiavas, Venetia Tsara

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

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

Sleep medicine practices in pediatric patients during the Covid-19 pandemic
Berce Sunnan (Ankara, Turkey), Nagehan Emiralioglu, Beste Ozsezen, Dilek Ademhan Tural, Halime Nayir Buyukshahin, Ismail Guzelkas, Ebru Yalcin, Deniz Dogru, Nural Kiper, Ugur Ozcakiloglu

The long patient’s journey for OSA diagnosis and treatment in a public university hospital in Brazil
Silke Anna Theresa Weber (Belfast, United Kingdom), Mohammad Shafiq, Bashareh Ibrahim, Farayi Ziweya, Johnson Samuel

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, Ángela Moreno-Palomino, Silvia Castillo-Corrullón

Information-motivation-behavioral skills intervention increases the CPAP adherence in OSAHS patients
Yina Wang (CHANGSHA, China), Yayong Li, Jingjie Kuang, Yina Wang

Effect of educational and supportive interventions on positive airway pressure therapy adherence in patients with obstructive sleep apnea
Burcu Uysaler (izmir, Turkey), Mehmet Sezai Tasbakan, Sebnem Pirildar, Özen K. Basoglu

Investigating the parameters that affect first night CPAP adherence
Ouraliana Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Vasilieios Stavrou, George Vavougios, Zoe Daniil, Evdokia Gogou, Chaido Pastaka, Nikolaos-Tiberio Economou, Chriki Hatzoglou, Konstantinos Gourgoulianis
Late Breaking Abstract - CPAP treatment in the very elderly with Ostructive Sleep Apnea. Pooled results from two multicenter randomized controlled trials
Thais Carolina Beauportuy 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 Muriel, Mercedes Mayos, Alberto Garcia-Ortega, Jose Gomez-Olivas, Amina Bekki, Rosa Villaescusa, David Gozal, Miguel Angel Martinez Garcia

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 13:15 - 14:15
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)

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), Andrew Lee, Rachel Zahigian, Ninet Nair, Ash 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. Shih, Verena Seliger, Daniel Campbell, Indrias Berhane, 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 Butter, Naomi Dayman, Erol Gaillard

LSC - 2021 - Effect of elexacaftor-tezacaftor-ivacaftor on pulmonary and endothelial function in a patient with high 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@kek.si / Department for endocrinology, diabetes and metabolic diseases, University Medical Centre,Ljubljana), Miso Šabovic (miso.sabovic@kek.si / Department of vascular diseases, University Medical Centre,Ljubljana), Barbara Salobir (barbara.salobir.pulmo@kek.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, Vladimir Alioshkin

Inflammation in cystic fibrosis patients: study of the eicosanoid pathway and severity correlations.
Silvia Gartner (Barcelona, Spain), Paula Fernandez-Alvarez, Isabel Lima, Sandra Rovira, Cesar 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 Saliu, 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)

PA2108 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 Paumone, Carlos Rochi

Inês Martin Corrons (Woluwe Saint Lambert, Belgium), William Poncin, Fred Braem, Lia Baudet, Stephane Fizaine, Frank Aboubakar, Antoine Froidure, Charles Pilette, Giuseppe Listro, Julien Degreff, Halil Yildiz, Lucie Potthen, Jean-Cyr Yombi, Leila Belkhir, Gregory Reylicher

PA2110 Role of Telemedicine in post-COVID pulmonary rehabilitation
Tarang Kulkarni (Mumbai (Maharashtra), India), Ankita Asher, Manas Mengar, Alpa Dalal

PA2111 Emerging Pulmonary Rehabilitation (PR) in the digital world
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Rachelle Gorman, Laura Pearson, David Barber, Helen Tickel, Max Bettany, Michela Zanzi, Linda Jones, Veronica Beardwood

PA2112 Six-minute walk test and telemonitoring of daily activities compared: implications to clinical interventions guided by oximetry.
Catarina Duarte Santos (Almada, Portugal), Ana Santos, Rui César Das Neves, Ruy M. Ribeiro, Fátima Rodrigues, Cátia Caneiras, Martijn A. Spruit, Cristina Bábari

PA2113 Adherence to home-based pulmonary rehabilitation among COPD patients
Vitalii Poberezhets (Vinnytsia, Ukraine), Anna Demchuk, Yuriy Mostovoy

PA2114 A machine learning approach to suspect excessive inactivity in COPD patients using non-activity-related clinical data
Bardner Agulianu (Grenoble, France), Eric Kelkel, Anne Rigal, David Hess, Amandine Briault, Marie Destors, Jacques Boutros, Pei Zhi Li, Anestis Antoniadis

PA2115 Economic evaluation of the British Lung Foundation Active Steps service
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

PA2116 Virtual pulmonary rehabilitation: virtual reality or virtual insanity?
Kate Devenney (Dublin, Ireland), Ciara Gleeson

PA2117 Laboratory components of pulmonary rehabilitation (PR) efficiency assessment in patients with COPD
Bohdana Basina (Dnipropetrovsk, Ukraine), L Konopkina, K Bielosludseva, N Kravchenko, T Kirieieva

PA2118 Results from a multidisciplinary rehabilitation program with patients post-COVID-19 infection.
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

PA2119 Late Breaking Abstract - Outpatient pulmonary rehabilitation in patients with long COVID
Stephan Nopp (Vienna, Austria), Florian Moik, Frederikus A. Klok, Dietlinde Gattinger, Milos Petrovic, Karin Vonbank, Andreas R. Koczulla, Cihan Ay, Ralf Zwick

PA2120 Admission Avoidance and Early Supported Discharge with Home Monitoring in COVID-19 Patients
Marcus Anthony Pittman (Basildon (Essex), United Kingdom), Angela Marney, Matilda Boa, Anthony Schirn, Fawad Ali
pa2121 Between-day reliability of a novel incremental step test to assess exercise capacity in COPD patients.  
Rui Vilarinho (Maia, Portugal), Rui Vilarinho, Lúcia Serra, Cátia Esteves, Cátia Caneiras, António Mesquita Montes

pa2122 Acute exacerbation of COPD patients therapy priorities: A survey study  
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh

pa2123 Impact of a home-based rehabilitation program on functional respiratory parameters and quality of life in COPD patients  
Nidhal Belloumi (la manouba, Tunisia), Meriem Hamdi, Imen Bachouche, Chaima Habbouria, Fatma Chermiti, Soraya Fenniche

pa2124 The impact of COVID-19 shielding on levels of physical activity and health-related quality of life in COPD patients following pulmonary rehabilitation  
Emily Hume (Newcastle Upon Tyne, United Kingdom), Matthew Armstrong, James Manifield, Laura Mcneillie, Francesca Chambers, Lynsey Wakenshaw, Graham Burns, Karen Heslop Marshall, Ioannis Vogiatzis

pa2125 Role of Pulmonary Rehabilitation (PR) on clinical care in patients with advance Interstitial Lung Diseases. Does it make any difference?  
Ayaz Mohammad Khan (Riyadh 11426, Saudi Arabia), Rajkumar Rajendram, Hamdan Aljahdali, Abdullah Harbi, Majed Alghamdi, Sarah Alrasheed, Mohammad Hamadi, Basema Alghamdi, Suleiman Alrahji

pa2126 To explore the prevalence and impact of hip and/or knee pain in patients presenting for Pulmonary Rehabilitation  
Samuel Briggs-Price (Leicester, United Kingdom), Enya Daynes, Olivia Revitt, Linzy Houchen-Wolloff, Sally Singh

pa2127 Late Breaking Abstract - Reported outcomes in patients referred with persisting respiratory symptoms following non-hospitalised COVID-19  
Theresa Harvey-Dunstan (Loughborough (Leicestershire), United Kingdom), Alex Jenkins, Ayushman Gupta, Ian Hall, Charlotte Bolton

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), Gaetano Caramori (Messina (ME), Italy)

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, Bansaj Patil, Dayanidhi Behera, Venkatesha Udupa, K.R. Vinod, Cynthia Caracita, 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 Puceddu, 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), Josuél Ora, 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 Krimsy, 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

pa2134 Carvacrol improved systemic inflammation and oxidative stress induced by inhaled paraquat in rats: The possible role of PPAR? receptors  
Mohammad Hossein Boskabady (Mashhad, Islamic Republic of Iran), Fatemeh Amin, Arghavan Memarzia
**Pre-congress content**

**Session 251  13:15 - 14:15**

**E-poster: Lung disease burden 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, Sleep and breathing disorders, Respiratory critical care

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

**Chairs:** Giovanni Viegi (Pisa (PI), Italy), Om Prakash Kurmi (Coventry, United Kingdom)

**PA2140**

**Indoor microbial environment and asthma outcomes in childhood**
Annabelle Bédard (Villejuif Cedex, France), Steffi Rocchi, Sadia Khan, Marie-Noëlle Dufourg, Marie-Christine Delmas, Marie-Aline Charles, Emeline Scherer, Gabriel Reboux, Chantal Raherison-Semjen, Laurence Millon, Bénédicte Leynaert

**PA2141**

**Asthma in elite athletes – a non-Type 2 disease**

**PA2142**

**Estimating the prevalence of undiagnosed inducible laryngeal obstruction within a severe asthma cohort**
Elise Akerman (Birmingham, United Kingdom), Naomi Atkins, Benjamin Sutton, Nicola Pargeter

**PA2143**

**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 Duhlén, Antonis Georgellis, Anna Bergström, Inger Kull, Erik Melén

**PA2144**

**Upbringer 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

**PA2145**

**Use of inhaled anti-asthma therapies following hormone therapy in women: A register-based cohort study**
Erik Sören Halvard Hansen (Valby, Denmark), Kristian Aasbjerg, Amalie Lykkemark Moeller, Amani Meaidi, Elisabeth Juul Gade, Christian Torp-Pedersen, Vibeke Backer

**PA2146**

**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

**PA2147**

**LSC - 2021 - Associations between pediatric asthma and adult lung diseases**
Nirmin Juber (Jakarta, Indonesia), Jason Liu (aimarrmr@gmail.com / National Yang-Ming University, Taipei)

**PA2148**

**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

**PA2149**

**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
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 Beaufils (Bordeaux, France), Pauline Esteves, Raphaël Enaud, Opheïle Germande, Alexis Celle, Roger Martin, Thomas Trian, Michael Fayon, Patrick Berger

PA2162 Three years’ follow up: relationship of maternal depression and anxiety with ever-wheezeing
Ozge Yılmaz (Manisa, Turkey), Adem Yasar, Merve Ocalan, Pinar Ay, Tunc 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 Mencanara, Daniel Hawcutt
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

Identification of two distinct microbial enterophenotypes in children with moderate-to-severe asthma: results from the SysPharmPediA study
Mahmoud Ismael Abdel-Aziz (Amsterdam, Netherlands), Anne H. Neerincx, Susanne J. H. Vijverberg, Simone Hashimoto, Mario Gorenjak, Antoaneta A. Toncheva, Parasitoo Kheiriddin, Susanne Harner, Susanne Brandstetter, Christine Wolff, Olia Sardón Prado, Paula Corcueru Elosegui, Javier Korta Murua, Maria Pino-Yanes, Uroš Potočnik, Michael Kabesch, Aletta D. Kraneveld, Anke H. Maitland-Van Der Zee

Clustering children by throat swabs identifies asthma-related patterns.
Martin Depner (Neuherberg, Germany), Giulia Pagani, Andreas Boeck, Bärbel Fösel, Kathrin Zeber, Kathrin Urner, Michael Schloter, Erika Von Mutius, Bianca Schaub

Severe asthma in children: shall we carry out systematic bronchoalveolar lavage?
Raja Ben Tkhayat (Paris, France), Jocelyne Just, Nadia Nathan

Respiratory infections in infancy are associated with preschool asthma
Maria Medeleanu (Toronto, Canada), Myrtha E. Reyna, Kozeta Miliku, Theo Moraes, Padmaja Subbarao

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

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

Using quality improvement programme to improve childhood asthma outcomes in low resource setting
Justus Simba (Thika, Kenya), Caren Emadou, Patrick Mburugu, Julian Wachira, Miriam Moseti, Beatrice Kamau, Florence Nduate, Sarah Mayell, Francis Ogaro, Ian Sinha

Childhood asthma care in a secondary hospital in Kenya: Parental perceptions from a quality improvement project
Justus Simba (Thika, Kenya), Caren Emadou, Patrick Mburugu, Julian Wachira, Esther Mwangi, Josephine Aritho, Francis Ogaro, Ian Sinha

Effect of zinc supplementation in children with asthma
Sajith Jayasree Sadanandan (TRIVANDRUM (KERALA), India)

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 Mizernitsky, Natalia Ilyenkova, Svetlana Dyakova, Elena Zhekaite, Vladimir Chikunov, Leonid Klimov, Svetlana Dolbnya, Victoria Kuryaninova, Julia Melianovskaya, Aisa Zodbinova

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, Svetlanaasihnikova Krasilnikova, Tatyana Eliseeva, Vilya Bulgakova , Natalia Popova

Pre-congress content  Session 253  13:15 - 14:15
E-poster: Screening, diagnosis, 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)

A basic prediction model with clinical parameters to diagnose lung cancer.
Marianne van Engeland (Enschede, Netherlands), Shari ina Tort, Job Van Der Palen

Proportion of incident lung cancers that would have been eligible for a lung cancer screening program in Australia
Marianne Turner (Sydney (NSW), Australia), Lillian Smyth, Nicole Taylor, Stuart Schembri
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 Margia, 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 Latzín, 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 Iacotucci, Pietro Medio, Lorenza Ferrillo, Serena Buonaurio, Marcella D'Ippolito, Assunta Celardo, Steven Coughlin

PA2196 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 Latzín, Carmen Casaulta

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 Cucchetto, Sonia Volpi, Marco Cipolli

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 Dieguez, Dani Martí Romeu, Sonia Souto Camba, Luz González Doniz, Mariona Farrés Tarafa

PA2201 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

PA2202 IMPACT OF NON-INVASIVE VENTILATION IMMEDIATELY AFTER EXTUBATION ON CLINICAL AND FUNCTIONAL OUTCOMES IN PATIENTS SUBMITTED TO CORONARY ARTERY BYPASS GRAFTING: CLINICAL TRIAL
Andre Luiz Cordeiro (Feira De Santana (BA), Brazil), Carolina Silva, Kênia Lima, Mayana Santana, André Guimarães, Patricia Forestieri, Luiz Alberto Forgiarini

PA2203 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

PA2204 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 Control 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

Comparison of the effects of inspiratory muscle training and neuromuscular electrical stimulation of the diaphragm in intubated patients
Ali Yalman, Orçin Telli Atalay, Hülya Sungurtekin, Cansu Özgen, Harun Taşkın

The effects of inspiratory muscle training on respiratory muscle strength and diaphragm motion in patients with mechanical ventilator
Harun Taskın, Orçin Telli Atalay, Furkan Ufuk, Hülya Sungurtekin, Yeliz Bilir, Ali Yalman

INspiratory Muscle Training in Patients in the Postoperative of Cardiac Surgery: A Systematic Review and Meta-Analysis
[MOU2]
Andre Luiz Cordeiro (Feira De Santana (BA), Brazil), Lucas Oliveira

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, Ilgaz Kara

Respiratory muscle strength and functional capacity of individuals with chronic kidney failure
Eli Forti (Capivari, Brazil), Isabela Nascimento, Nataty Mendes Da Silva, Ana Flavia Rachid De Medeiros, Tamires Alessa De Mori, Silviva 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-Yagli, Hacer Daşgün, 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 Miguereus (Strasbourg, France), Christina Delmas, Julie Petit Thomas, Héléne 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 Gemicioglu (Istanbul, Turkey), DENIZ ONGEL HARBIYELI, Hayriye Ertem Vehid, Jean Bousquet, João Fonseca
PA2219  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

PA2220  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 Dhillon, Daniel Burrage, Sachelle Ruickbie, Emma Baker, Thomas Barrick, Paul Jones

PA2221  Impact of cytokines on endothelium in COPD patients
Olga Arkhipkina (Kharkiv, Ukraine)

PA2222  Clinical and functional characteristics of the natural course of COPD
Stanislav Kotlyarov (Ryazan, Russian Federation)

PA2223  The nutritional status of COPD exacerbators
Carina Rölo Silvestre (S. João das Lampas, Portugal), Tiago Dias Domingues, Maria Cavaco, André Nunes, Ricardo Cordeiro, Teresa Silva Santos, Teresa Falcão, António Domingos

PA2224  Inflammation and physical capacity in relation to clinical COPD clustering
Sebastian Gagaték (Stockholm, Sweden), Björn Ställberg, Christer Janson, Kristina Bröms, Hans Hedenström, Karin Lisspers, Marieann Högman, Andrei Malinovschi

PA2225  Study of gastroesophageal reflux disease in frequent exacerbations of chronic obstructive pulmonary disease
Aigoul Zinnatullina (Kazan (Republic of Tatarstan), Russian Federation), Rustem Khamitov

PA2226  Gender-specific differences in COPD symptoms and their impact for the diagnosis of cardiac comorbidities
Franziska Trudzinski (Heiderberg, Germany), Christina Kellerer, Rudolf Jörres, Peter Alter, Johanna Lutter, Federik Trinkmann, Felix Herth, Marion Frankenberger, Hendrik Watz, Claus Vogelmeier, Hans-Ulrich Kauczor, Tobias Welte, Jürgen Behr, Robert Bals, Kathrin Kahlert

PA2227  Admission due to heart failure and pulmonary function testing: is there a COPD?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Lesya Raspusntina

PA2228  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

PA2229  Is there a role of Heart Failure in pulmonary function testing?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Lesya Raspusntina

PA2230  Clinical COPD Questionnaire results depending on the degree of the inflammatory response in patients with COPD combined with hypertension
Anastasiia Melenevych (Kharkiv, Ukraine)

PA2231  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

PA2232  The prevalence of primary ciliary dyskinesia (PCD) in adult patients with bronchiectasis in Dnipro (Ukraine)
Katerina Gashynova (Dnipro, Ukraine), Ksenia Suska, Valeria Dmytychenko

PA2233  The international primary ciliary dyskinesia (PCD) registry reports genotype/phenotype-correlations
Johanna Raidt (Münster, Germany), Petra Pennekamp, Sarah Riepenhausen, Henrike Krenz, Simone Helms, Tabea Nötzh-Mench, Bernd Dworznick, Heike Olbrich, Niki T Loges, Jörg Große-Onnebrink, Mathias G Holgersen, June K Marthin, Kim G Nielsen, Martin Dugas, Heymut Omran

PA2234  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

PA2235  Sub-glottic Stenosis: An orphan tracheopathy – a great asthma mimic!
Sana Ifikhar (Stoke-on-trent, United Kingdom), Aka Abi Musa Ass'Ari, Qaiser Abdullah, Mostafa Abdelmoteleb, Shilajit Ghosh, Mohammed Haris

PA2236  Metabolic Syndrome (MetS) as a comorbidity of Chronic Obstructive Pulmonary Disease (COPD)
Daniela Bukloska Ilievskia (Skopje, North Macedonia), Jordan Minov, Ivana Mickovski, Nade Kochovska Kanchevska
**Pre-congress content**

**Session 257**  
**13:15 - 14:15**

**E-poster: Prognostic markers of disease progression in non-idiopathic 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][Airway diseases]

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

**Chairs:** Maria Otaola (Ciudad Autónoma Buenos Aires, Argentina), Joanna Porter (London, United Kingdom)

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<th>Domiciliary monitoring of physiology and symptoms to detect interstitial lung disease exacerbations and/or progression: a systematic review</th>
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<td>Malik A Althobiani (London, United Kingdom), Rebecca A Evans, Jaber S Alqahtani, Abdulrah M Aldhahir, John R Hurst, Joanna Porter</td>
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<th>PA2238</th>
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<td>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</td>
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<td>VIRGINIA Parra León (MADRID, Spain), Walther Ivan Girón Matute, Pedro Figueroa Serrano, Belén Serrano Benavente, Charles Reynolds Castro Riera, Luis Puente Maestú</td>
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<td>Melanie Berger (Kölín, Germany), Maximilian Wolschinger-Strobel, Elisabeth Bünemann, Sarah Bettina Schwarz, Daniel Sebastian Majorski, Tim Mathes, Wolfram Windisch</td>
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<th>PA2241</th>
<th>Clinical course and outcomes of acute exacerbation of fibrosing interstitial lung disease</th>
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<td>Katsuyuki Furuta (WakayamaCity, Japan), Daichi Fujimoto, Atsushi Matsunashi, Masanori Tanaka, Ryota Shibaki, Yuri Shimada, Kazuma Nagata, Keisuke Tomii, Nobuyuki Yamamoto</td>
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<td>Paulo Cavalcante Neto (São Paulo (SP), Brazil), Ana Carolina Lima Resende, Eliane Viana Mancuzo, Maria Raquel Soares, Maria Auxiliadora Moreira, Leticia Ferreira Neves Arantes, Regina Célia Carlos Tibana, Fernanda Maciel De Aguiar Baptista, Tatiana Senna Galvão Nonato Alves, Karin Mueller Storrer, Priscila Isolani De Oliveira, Fernanda Maria Pinheiro Machado Nogueira, Rafaela Boaventura Martins, Simone Lobo Kropuk Mattias, Soraya Abou El Hosn Cordero Da Silva, Vanessa El Mir Arida, André Bezerra Botelho, Bruno Leacock De Moraes Beraldo, Marina Domfield Cunha Castro, Cesar Yoshito Fukuda, Milena Tenório Cerezo, Rimaes Gomes Ferreira, Israel Missrie, Carlos Pereira</td>
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<th>PA2243</th>
<th>Analyses of predictive findings indicative of progressive interstitial lung diseases</th>
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<th>PA2244</th>
<th>Prognostic value of 6-Min Walk Test (6MWT) in Patients with non-Idiopathic Pulmonary Fibrosis Progressive Fibrosing Interstitial Lung Disease (PF-ILD)</th>
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<td>Gregoire Jeanniard (Boulogne-Billancourt, France), Mouhamad Nasser, Ségolène Turquier, Kais Ahmad, Jesús Calabuig Lopez, Jean-Charles Glérant, Julie Traclet, Arnaud Chambellan, Vincent Cottin</td>
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<th>PA2245</th>
<th>Progressive fibrosis is common in patients with Sjögren’s syndrome and Interstitial lung disease</th>
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<td>Caroline Diou (Paris, France), Marie-Pierre Debray, Catherin Bancau, Karim Sacré, Camille Taille, Warda Khamis, Robin Dhote, Raphaël Borie, Hilaris Nunes, Yurdagül Uzunhan, Bruno Crestani</td>
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<th>PA2246</th>
<th>Clinical features and outcomes of patients with myositis associated-interstitial lung disease</th>
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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)

PRONE POSITION IN COVID-19 PATIENTS INVASIVE MECHANICAL VENTILATED
Rafaela Xavier (São Paulo (SP), Brazil), Jaci Oliveira, Naiara Rodrigues, Thais Vieira, Midïâ Coutinho, Regiane Mota, Andrietti Turi, Cristiane Schmitt, Ailton Silva Jr, Carina Nunes, André Sala

COVID-19 and acute respiratory failure treated with CPAP
Linette Marie Kofod (Jyllinge, Denmark), Klaus Nielsen Jeschke, Morten Tange Kristensen, Rikke Krogh-Madsen, Carsten Monefeldt Albek, Ejvind Frausing Hansen
**COVID-19 knowledge, practice and barriers to early mobilization: a Brazilian survey**
Renata Mendes (Sao Carlos (SP), Brazil), Thaís Marina Pires De Campos Biazon, Henrique Pott Junior, Michel Silva Reis, Daniela Garlando Bucharles Mont’Alverne, Daniel Lago Borges, Guilherme Peixoto Tinoco Arêas, Audrey Borghi-Silva

**Impact of outpatient rehabilitation programme on physical fitness for patients post covid-19**
Thomas Williamson (Epsom, United Kingdom), Angela Miers, Daisy Garvey, Carol Morris, Fran Dyer, Claire Wells, Shalik Rahman

**Delivering an 8-week in-home telerehabilitation exercise program in patients with COVID-19 during the first pandemic in Greece**
Eleni Kortianou (Athens (Alimos), Greece), Dimitrios Tsimouris, Aspasia Mavronasou, Sotirios Lekkas, Nikolaos Kazantzis, Maria Isakoglou, Georgia Dimakou, Zafeiria Barnperrasou, Stamatoula Tsikrika, Vissaria Sakka, Angelos Liontos, Marianna Christaki, Charalampos Milionis, Ioannis Kalomenidis

**Benefits of pulmonary rehabilitation in COVID-19 – a prospective observational cohort study**
Rainer Gloeckl (Schoenau am Koenigsee, Germany), Daniela Leitl, Inga Jarosch, Tessa Schneeberger, Christoph Nell, Nikola Stenzel, Claus Vogelmeier, Klaus Kenn, Rembert Koczulla

**Impact of pulmonary rehabilitation on sequelae produced in critically ill patients by COVID-19.**
Aida Monge Esqué (Lleida, Spain), Paola Carmona Arias, Sally Santistevie Lostes, Anna Moncusu Moix, David De Gonzalez Calvo, Clara Gort Paniello, Gerard Torres Cortada, Esther Gracia Lavedan, Ferran Barbé Ila, Jessica González Gutiérrez

**Is Pulmonary Rehabilitation (PR) effective in people recovering from severe COVID-19 (C-19) pneumonia?**
Francesca Knight (Reading, United Kingdom), Laura Cornish, Xu Shen, Catherine Thomas

**Does virtual breathing pattern retraining improve breathlessness in patients with post COVID syndrome?**
Lauren Williamson (Mitcham, United Kingdom), Gita Ramdharry, Olivia Chapman, Melissa Heightman, Toby Hillman, Rebecca Livingston

**Monitoring physical and psychological status in home-quarantined patients with COVID-19 after hospitalization**
Eleni Kortianou (Athens (Alimos), Greece), Aspasia Mavronasou, Dimitrios Tsimouris, Nikolaos Kazantzis, Zoi Eleni Apostolara, Sotirios Lekkas, Maria Isakoglou, Stamatoula Tsikrika, Angelos Liontos, Marianna Christaki, Charalampos Milionis, Ioannis Kalomenidis

**Comparison of muscle strength, physical activity, mood and sleep quality in patients with recovered from mild and moderate COVID-19**
Aylin Tanriverdi (Izmir, Turkey), Sema Savci, Buse Ozcan Kahraman, Ebru Ozpilat

**Might a short-term telerehabilitation program improve effort tolerance, dyspnea, and effort desaturation in patients discharged after COVID-19 pneumonia?**
Mara Paneroni (Mazzano (BS), Italy), Michele Vitacca, Palmira Bernocchi, Laura Bartocchini, Simonetta Scalvini

**Physical impairments following an inpatient stay for Covid-19 infection**
Joanne Dowds (Dublin 8, Ireland), Kate O’Brien, Grainne Sheill, Liam Townsend, Parthiban Nadarajan, Ciaran Bannan, Ignacio Martin Loeches

**Wearables to monitoring the activities daily living in patients post-hospitalization by COVID-19**
Maria Cecília Moraes Frade (Ribeirão Preto, Brazil), Thomas Beltrame, Daiane Roberta Viana, Marcela Maria Carvalho Da Silva, Mariana De Oliveira Gois , Carina Araujo De Facto, Luana Aprecioza Gonzaga, Juliano Ferreira Arcuri, Valéria Amorim Pires Di Lorenzo, Aparecida Maria Catai

**The relationship among 6-minute walk test performance, respiratory muscles, ventilatory parameters and dyspnoea severity in long COVID patients: Preliminary results.**
Martin Dvořáček (Bouzov, Czech Republic), Pavla Horová, Tamara Michalciková, Zuzana Krsáková, Katerina Neumannová

**Physical activity in daily life and clinical characteristics of recovered COVID-19 patients**
Isis Grigolotto (Pirapozinho, São Paulo, Brazil), Vinicius Cavalheri, Fabiano De Lima, Brenda Carla De Sene Vaz, Natália Narumi Voltareli Suzuki, Daniele Akemi Eto, Rafael Mesquita, Ercy Mara Cipulo Ramos

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**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 (Moscua, 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
Arfaoui Hajar (Casablanca, Morocco), Hajar Bamha, 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, Chaouach Nawel, Daghfous 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 Tiga

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 Vrabiy (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), Upasna Agarwal, Neeta Singla, Rohit Sarin, Jaya Prasad Tripathy, Karuna Sagili, Puthe Thakkur

PA2288 The effect of tobacco smoking on bronchial patency in patients with pulmonary tuberculosis
Marina Peredelskaya (Moscow, Russian Federation), Atadgan Ergeshov, Galina Sakharova, Nicalay Antonov, Ludmila Rusakova, Vladimir Romanov, Nicolay Chumovatov

PA2289 PREDICTOR FACTORS TO POOR ADHERENCE TO ANTI-TUBERCULOSIS TREATMENT
Hager Kchouk (Tunis, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Hafaoua Daghfous, 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

PA2291 New treatment outcome definitions for drug-susceptible and drug-resistant tuberculosis: update from World Health Organization
Linh Nguyen (Geneva, Switzerland), Fuad Mirzayev, Kerri Viney, Medea Gegia, Matteo Zignol

PA2292 A data-driven approach to identify putative tuberculosis among adolescents in resource-constrained settings.
Siyanal Zhou (Rondebosch, South Africa), Mark Orkin, Elona Toska, Roxanna Haghighat, William Rudgard, Quintin Van Staden, Lucie Cluver
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)

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**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

**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, Marie-Carmen Valenza

**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 Schneiter, Ilhan Inci, Isabelle Opitz

**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

**EXPERIENCE WITH RADIOFREQUENCY ABLATION OF LUNG TUMORS**
Jose María Diaz Garcia (Madrid, Spain), Miguel Morales Garcia, Maria Teresa Rio Ramirez, Fernando Garcia Prieto, Cristina Matesanz López, Beatriz Raboso Moreno, Adriana Rodriguez, Carmen Maria Acosta Gutiérrez, Araceli Abad Fernandez

**Surgery of remnant lung after contralateral pneumonectomy is safe**
Katarzyna Furrer (Zürich, Switzerland), Emil Iliev, Walter Weder, Sven Hillinger, Didier Schneiter, Ilhan Inci, Isabelle Opitz

**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, Daizo Kaito, Koichi Minato, Takahiro Arai, Hitoshi Kawazoe, Akio Suzuki, Yasushi Ohno, Hiroyuki Okura

**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), Maria Torres, Isaura Parente, Antonio Golpe, Carmen Montero, Virginia Leiro, Olalla Castro, Alberto Fernández, Luis Valdés, Alberto Ruano

**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

**Impact of COPD on prognosis of lung cancer: the prospective of immunotherapy treatment**
Ricardo Estêvão Gomes (Lisboa, Portugal), Teresa Almodóvar

**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

**Atezolizumab in previously treated non-small cell lung cancer patients**
Mariana Serino (Braga, Portugal), Vanessa Santos, David Araújo, Helder Novais-Bastos, Adriana Magalhães, Gabriela Fernandes, Henrique Queiroga, Venceslau Hanepohl

**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 Gkizios

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ERS Virtual International Congress 2021
DETAILED PROGRAMME
MONDAY 06 SEPTEMBER, 2021
### 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, Miłos Pesek, Martin Svaton, Libor Havel, Leona Koubkova, Michal Hrnciarik, Jana Krejci, Juraj Kultan, Ondrej Fischer, Milada Zemanova, Marketa Cernovska, Martin Safanda, Helena Coupkova, Tana Tusova, Daniel Dolezal

### 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

### 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 Ramfidis, Dimitra Grapsa, Ioannis Gkiozos, Dimitra Stefanou, Konstantinos Syrigos

### 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

### 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

### 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

### 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 Pleština, Miroslav Samaržija, Marko Jakopović

## Pre-congress content

### Session 261 13:15 - 14:15

**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)

#### In vitro toxicological effects of particulate matter from Metropolitan Region of Vitoria, Brazil

Trícia Guerra Oliveira (Vitória, Brazil), Isabelle Araújo Tranços, Maria Tereza Weitzel Dias Carneiro, Melina Do Espírito Sant Lemos, Bianca Prandi Campagnaro, Denise Coutinho Endringer, Larissa Zambom Côco, Antônio Domingos, Márcio Fronza

#### Pulmonary fibrosis in mice increases susceptibility to pneumococcal pneumonia and bacteremia

Christoph Tabeling (Berlin, Germany), Sandra-Maria Wienhold, Anna Birnhuber, Markus C. Brack, Geraldine Nouailles, Olivia Kershaw, Theresa C. Firsching, Achim D. Gruber, Jasmin Lienau, Leigh M. Marsh, Andrea Olschewski, Grazyna Kwapiszewska, Martin Witzenrath

#### Validation of in vitro models for smoke exposure of primary human bronchial epithelial cells

Michal Mastalerz (Germering, Germany), Elisabeth Dick, Ashesh Chakraborty, Elisabeth Hennen, Andreas Schamberger, Michael Lindner, Rudolf Hatz, Juergen Behr, Anne Hilgendorff, Otmar Schmid, Claudia Staab-Wejinath

#### 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

#### Vasoactive intestinal peptide (VIP) supresses ACE2- and TMPRSS2 expression in stimulated epithelial cells

Charlotte Gutzler (Freiburg, Germany), Kerstin Höhnke, Joachim Müller-Quernheim, Gernot Zissel, Björn Christian Frye

#### Myeloid-derived suppressor cells in the blood of COVID-19 patients

Ian M. Adcock (London, United Kingdom), Esmaeil Mortaz, Neda Dezfuli, Neda Dalil Roofchayee
Human rhinovirus causes increase in angiogenetic activity of lung endothelial cells – potential involvement in enhanced vasculature in asthmatics
Aleksandra Likonska, Adrian Gajewski, Mateusz Gawrysiak, Izabela Gulbas, Robert Szewczyk, Kinga Klimeczak, Marek L. Kowalski, Maciej Chalubinski

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

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

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

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 Destrêfano, Edison L Durgion, Danielle B L Oliveira, Rodolfo P Vieira

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 Rynne, Peter Howarth, Jody Rosenblatt, Michael Edwards

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

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

Monitoring spirometry-like parameters in mice with house dust mite-induced experimental asthma
Perla Abigail Alvarado-Vazquez (Uppsala, Sweden), Erika Mendez-Enriquez, Jenny Hallgren

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, João Bosco Pesquero, Rodolfo P Vieira

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 Ostrovska, Galyna Korzh, Mariana Kulynych-Miskiv, Oleksandr Varunkiv, Iryna Savelikhina, Kostiantyn Shivets

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 Ostrovska, Mariana Kulynych-Miskiv, Oleksandr Varunkiv, Iryna Savelikhina, Kostiantyn Shivets

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, Carlos R Oliveira, Nilsa R Damaceno-Rodrigues, João B Pesquero, Flavio Aimbire

The anti-inflammatory effects of helminth-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
**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)

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**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 Rodríguez Chiaradia, Anna Rodó Pin, Oswaldo Caguana Vélez, Cinta Cumplí Gargallo, Roberto Chalela Rengifo, Mireia Admetlló Papiol, Flavio Zucarino, Didac Ramal Leiva, Eva Balcells Vilaro

**PA2336**

Correlation of the Distance Saturation Product with spirometric and Diffusion Capacity for Carbon Monoxide data in patients with Interstitial Lung disease
Khouloud Kchaou (Sfax, Tunisia), Sounaya Khaldi, Asma Chaker, Salma Mokaddem, Saloua Jameleddine

**PA2337**

Impact of early referral to palliative care in interstitial lung disease
Ana Rodrigo Troyano (Barcelona, Spain), Ana Alonso, Silvia Barril, Oscar Fariñas, Ernest Güell, Antonio Pascual, Diego Castillo

**PA2338**

Nicol Bernardinello (Trecenta (RO), Italy), Annalisa Boscolo, Elisabetta Coccoconcelli, Nicolò Sella, Giulia Andreotti, 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 Frödure, Matthias Griese, Jan Grutters, Kerri Johannsson, 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 Sivarajjini

**PA2341**

Analysis of patients with interstitial lung disease associated to Systemic Sclerosis treated with cyclophosphamide.
Luiz Paulo Arreguy Nogueira (Belo Horizonte (MG), Brazil), Eliane Manzucu

**PA2342**

Associations between comorbidities and survival in patients with interstitial lung diseases
Tasnim Zeguie (borj cerdia, Tunisia), Moussa Nadia, Nour Mahmoud, Kotti Amina, Kallel Nesrin, Gargouri Rahma, Bahloul Najla, Feki Walid, Msaad Sameh, Yengui Ilhem, Ayedi Hajer, Ktata Wajdi, Kammoun Smai

**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.
lou deneuville (paris, France), lou deneuville, 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

**PA2346**

Pulmonary disease associated with rheumatoid arthritis
Maria Inês de Sousa Moreira (Lisboa, Portugal), Ana Magalhães, Sara Silva, Alexandra Borba, João Cardoso

**PA2347**

Eliza Tisitoura (Heraklion (Cretes, Greece), Semeli Mastrodimou, Eirini Vasarmidi, Irini Lampiri, Konstantinos Karagiannis, Vagia Stamatopoulou, Nikos Zanakis, Katerina Antoniou
Late Breaking Abstract - Prognostic value of serum biomarkers in patients with idiopathic pulmonary fibrosis and correlation with disease progression.
Kalliopi Domvri (Thessaloniki, Greece), Kalliopi Domvri, Apostolos Apostolopoulos, Ioannis Organtzis, Evangelia Fouka, Lamprini Bina, Theodoros Kontakiotis, Despoina Papakosta

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)

LSC - 2021 - Nontypeable Haemophilus influenzae suppresses SP-B and SP-C expression in alveolar epithelial type I cells
Hannah Sophie Stodden (Homburg, Germany), Felix Ritzmann (felix.ritzmann@uks.eu / Saarland University - Internal Medicine V, Homburg), Christian Herr (christian.herr@uks.eu / Saarland University - Internal Medicine V, Homburg), Robert Bals (robert.bals@uks.eu / Saarland University - Internal Medicine V, Homburg), Christoph Beisswenger (christoph.beisswenger@uks.eu / Saarland University - Internal Medicine V, Homburg)

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

Glycine efficacy for prevention or treatment on LPS-acute lung injury in mice
Bryan Shini Henada Goto (São Paulo (SP), Brazil), Renato Fraga Righetti, Tabata Maruyama Dos Santos, Leandro Do Nascimento Camargo, Beatriz Manquegue Saraiva-Romanhlo, Suellen Karoline Moreira Bezerra, Edna Aparecida Leick, Carla Máximo Prado, Milton De Arruda Martins, Ruben Siedlarczyk Nogueira, José Carlos Sé De Carvalho Neto, Daniel Alexandre De Souza, Bruno Ramos Salu, Maria Luiza Villela Oliveira, Isolanda De Fátima Lopes Calvo Tibério

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, Lihua Liu

Variability of β-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

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

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 Muelleder, Vadim Farztdinov, Benedikt Obermayer, Sandra-Maria Wiendl, Sandro Andreotti, Thomas Hoefer, Birgit Sawitzki, Christian Drosten, Leif E. Sander, Norbert Siedlarczyk, Markus Ralser, Dieter Beule, Achim D. Gruber, Christine Goffinet, Markus Landthaler, Jakob Trimpert, Martin Witzenrath

Decreased neutrophil phagocytosis and killing of bacteria in COVID-19 patients
Masoumeh Nomani (Tehran, Islamic Republic of Iran), Mohammad Varahram, Mona Ghazi, Ian M. Adcock, Esmaeil Mortaz

Cathelicidin as a marker of worsening of the course of lung infection
Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Oiga Prikhodko, Iaira Menshikova, Tatiana Talchenkova

Inducible epithelial resistance modulates innate antiviral signaling against coronavirus and influenza
Jezreel Pantaleon García (San Nicolás de los Garza, Mexico), Liza Yusem-Cartens, Vikram Kulkarni, Shradha Walli, Michael Longmire, Yongxing Wang, Scott Evans

The role of efflux pump systems and OprD porin 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-Adalid, Leticia Bueno, Rosanel Amaro, Patricia Elena Osnacho, 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
Noémie Bricmont (Florennes, Belgium), Romane Bonhiver, Lionel Benchimol, Maud Pirotte, Catherine Moermans, Anne-Lise Poirier, Philippe Lefèbvre, 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-François Clot (CHILLY-MAZARIN, France), Christine Farenc, Benjamin Suratt, Tillmann Krahnke, Agnes Tardat, Peter Florian, Robert Pomponio, Naimish Patel, Maria Wiekowski, Yong Lin, Benjamin Terrier, Heribert Staudinger

Late Breaking Abstract - Analysis of volatile organic compounds in post-COVID-19 patients with eNose technology.
Bas F. M. van Raaij (Leiden, Netherlands), J.F. Annoeska Hameete, J. Lauran Stöger, Maarten K. Ninaber, J. J. Miranda Geelhoed

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 Stolk, Eva Tabernero Huguet, Hanan Tanash, Marc Miravitlles

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

Late Breaking Abstract - 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 Mantso, 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), Patrícia Mota, Natália Melo, António Morais, Helder Novais E Bastos

Lymphangioleiomyomatosis – experience of a university hospital
Mafalda Martins Baptista (Covilhã, Portugal), Natália Melo, Patrícia Mota, Helder Novais E Bastos, Susana Guimarães, Conceição Souto-Moura, André Carvalho, José Miguel Jesus, Rui Cunha, António Morais
LYMPHANGIOLEIOMYOMATOSIS AND SIROLIMUS: MEDIUM-TERM IMPACT ON PULMONARY FUNCTION
Marta Garcia Moyano (Barakaldo, Spain), Amaia Urrutia, Leyre Serrano, Ainhoa Gómez, Sonia Castro, Imanol González, Jone Solorzano, Carmen Jaca, Pedro Ansolà, Milagros Iriberri

Retrospective evaluation of our cohort of CTD-ILD RA patients treated with Rituximab: 5 years follow up.
Francesco Bini (Pavia (PV), Italy), Angelo De Lauretis, Cristina Arosio, Bruno Dino Bodini, Stefano Carlo Zucchetti, Maria Chiara Papetti, Adriano Vaghi

Nitrofurantoin Induced Pulmonary Fibrosis: A Case Series
Samia Naureen (Colchester, United Kingdom), Shoaib Faruqi, Simon Hart, Nadia Jawad, Nuala Kennan

Experience with antifibrotics treatment in progressive interstitial lung diseases non-IPF
Ana Belén Llanos-González (La Orotava, Spain), Sara García Gil, Juan Alfonso Bonilla Arjona, Sonia García Hernández, Verónica S. Hernández García, Paula Pérez De Armas, Nelson Mesa León, Orlando Acosta Fernández

Lung functional decline in patients with Interstitial Pneumonia with Autoimmune Features (IPAF)
Alexandra Nagy (Mosonmagyaróvár, Hungary), Erik Palmer, Enikó Bárczi, Abigéľ Farkas, Tamás Erdélyi, Krisztina Vincze, Noémi Eszes, Anikó Bozhács, Veronika Müller

Role of the inflammasome in the pathophysiology of antisyntethase-associated interstitial lung disease.
Angel Emmanuel Vega-Sanchez (Ciudad de Mexico, Mexico), Espiridion Ramos-Martinez, Ivette Buendia-Roldan, Gloria Pérez-Rubio, Rumíes Fallán-Valencia, Mayra Mejía, Jorge Rojas-Serrano

Definition of progressive fibrosing interstitial lung diseases and approach to the patientPosition paper of Czech Respiratory Society
Martina Šterclová (Praha, Czech Republic), Martina Doubkova, Renata Kralova, Petr Pohunek, Vladimir Barton, Vladimir Lostaková, Pavla Musilova, Martina Vasakova

Retrospective evaluation of our cohort of patients with chronic estrinsic allergic alveolitis.
Francesco Bini (Pavia (PV), Italy), Maria Chiara Papetti, Umberto Zanini, Bruno Dino Bodini, Paola Faverio, Adriano Vaghi, Giuseppe Pepe, Daniele Colombo

Late Breaking Abstract - B cells are not involved in the regulation of adenoviral TGF-ß1- or bleomycin-induced lung fibrosis in mice
Marie Moog (Hannover, Germany), Christopher A. Hinze, Lars Knudsen, David S. Deluca, Tobias Welte, Martin Kolb, Ulrich A. Maus

Late Breaking Abstract - Development of a self-management package for pulmonary fibrosis: an international Delphi study
Joanna Lee (Melbourne, Australia), Gabriella Tikellis, Anne Holland

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 Maillieux (Paris, France)

Epithelial mesenchymal transition (EMT) related changes in small airways of smokers and patients with COPD
Wenying 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 (Blagoveschensk, Russian Federation), Natalya 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 Hlapecic (Zagreb, Croatia), Marija Grdic Rajkovic, Andrea Hulina-Tomasikovic, Sanja Popovic-Grelc, Margareta Radić Antolic, Lada Rumora

Epigenome-wide DNA methylation profile analysis identifies ABLIM3, ADAM19 and PRICKLE2 associated with COPD
Jia Hou (Yinchuan, China), Xia Wang, Zhijun Zhao
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<td>Accelerated aging biomarkers in young, old, mild and severe COPD</td>
<td>Sandra Casas Recasens (Barcelona, Spain), Borja García Costo, Sergi Pascual-Guardia, Ady Acosta-Castro, Alicia Borras-Santos, Joaquim Gea, Alvar Agustí, Rosa Faner, Early Study Group</td>
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<td>PA2387</td>
<td>Inherited thrombophilia in the development of thrombotic conditions in patients with COPD</td>
<td>Elnorahon Abduganieva (Москва, Russian Federation), Irina Liverko, Kadirjon T. Boboev, Shahboshon Ahmedov</td>
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<td>PA2388</td>
<td>Fatty Acid Desaturases Activity In Patients With Mild And Moderate Asthma</td>
<td>Yulia Denisenko (Vladivostok, Russian Federation), Tatiana Novgorodtseva, Marina Antonyuk, Tatiana Gvozdenko</td>
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<td>PA2390</td>
<td>Hypoxia-Inducible Factor-1a State in COPD modeling by the method of chronic smoking.</td>
<td>Vera Nezvorova (Vladivostok (Primorsky Krai), Russian Federation), Nataliya Zakharchuk, Victor Chertok, Tatiana Khaizarzamanova</td>
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<td>PA2391</td>
<td>AQP5 polymorphism affects dynamics of lung function and asthma control in seasons with contrasting air humidity</td>
<td>Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Evgenya Y. Afanasieva, Olesya O. Kotova, Dina A. Gassan, Elizaveta G. Sheldukov, Ivana Y. Sugaylo, Yana G. Gorshakova, Victor P. Kolosov</td>
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<td>PA2392</td>
<td>Association of genetic polymorphisms involved in the histamine metabolism with asthma in children</td>
<td>Olga Savelieva (Уфа, Russian Federation), Alexandra Karunas, Yuliya Fedorova, Esfir Etkina, Elza Khusnutdinova</td>
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<td>PA2393</td>
<td>Intermittent hypoxia up-regulates Renin and Cd38 mRNAs in renin-producing cells via miR-203</td>
<td>Yoshinori Takeda (kashihiara, Japan), Asako Itaya-Hironaka, Akiyo Yamauchi, Mai Makino, Sumiyi Sakuramoto-Tsuchida, Hiroyo Ota, Ryuji Kawaguchi, Shin Takasawa</td>
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<td>PA2394</td>
<td>Electronic cigarette aerosol condensate is cytotoxic and increases ACE2 expression in human airway epithelial cells: implications for COVID-19</td>
<td>Kielan McAlinden (Newnham, Australia), Wenying Lu, Parisa Vahidi Ferdowsi, Stephen Myers, James Markos, Collin Chia, Heinrich Weber, Greg Haug, Mathew Eapen, Sukhwinder Singh Sohal</td>
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<td>PA2395</td>
<td>A novel mechanism of autotaxin-mediated cell signaling that is independent of catalytic activity and inhibited by ziritaxestat</td>
<td>Fernando Salgado-Polo (Amsterdam, Netherlands), Razvan Borza, Paul Ford, Bertrand Heckmann, Anastassia Perrakis</td>
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<td>PA2396</td>
<td>Hypoxia induces proinflammatory cytokines production in alpha-1 antitrypsin deficiency patients</td>
<td>Maria Magallón Serrano (Valencia, Spain), Silvia Castillo, Daniel Pellicer, Lucia Bahul, Sergio Bondia, Maria Mercedes Navarro-Garcia, Cruz Gonzalez, Francisco Dasi</td>
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<td>PA2397</td>
<td>Identification of HuR-specific RNA interactome in TGF-ß1-activated fibroblasts in response to cigarette smoke</td>
<td>Sofia Winslow (Mölnadl, Sweden), Llywelyn Griffith, Henric Olsson, Jernej Ule, Zala Jevnikar Rojnık</td>
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<td>PA2398</td>
<td>Transcriptome analysis of ciliary differentiation in airway epithelium</td>
<td>Jelmer Legebeke (Southampton, United Kingdom), Katie Horton, Gabrielle Wheway, Htoo Wai, Claire Jackson, Janice Coles, John Holloway, Jane Lucas, Diana Baralle</td>
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<td>PA2399</td>
<td>Accelerated age-dependent elastin degradation in bronchiectasis</td>
<td>Jeffrey T.-J. Huang (Dundee (Angus), United Kingdom), Elena Kuzmanova, William Macnee, Bruce E. Miller, Ruth Tal-Singer, James D. Chalmers</td>
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<td>PA2400</td>
<td>External quality assessment (EQA) for laboratory diagnosis of alpha-1-antitrypsin deficiency (AATD) – Program driven by the European Alpha-1-Research Collaboration (EARCO) network</td>
<td>Ilaria Ferrarotti (Pavia (PV), Italy), Irene Belmonte, Malika Balduyck, Tomás P Carroll, Angelo G Corsico, Timm Greulich, Noel G Mcelvaney, Marc Miravitlles, Marie-Francoise Odou, Stefania Ottaviani, Francisco Rodriguez-Frias, Ada Rozy, Susana Seixas, Martina Veith, Farid Zerimech, Joanna Chorostowska-Wynimko</td>
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<td>PA2401</td>
<td>Adhesion ratio of blood neutrophils from PiZZ COPD patients prior to and during augmentation treatment with alpha-1-antitrypsin</td>
<td>Urszula Lechowicz (Warsaw, Poland), Stefan Rudziński, Adriana Roży, Joanna Chorostowska-Wynimko, Sabina Janciauskiene</td>
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**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 Skliiris, 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, Afisî Smislâma

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 Jian, Cheng Wang, Hongyan Shang, Yue Fei

PA2405 Long Acting β-2 Agonists (LABA) or Anticholinergics (LAMA): Which one is more efficient in Group A COPD Patients? Muzaffer Onur Turan (Izmir, Turkey), Nalan Ogân, Fulsen 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 Hâkansson, Thomas Kallemose, 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, Afisî S. Ismailâma


PA2413 Investigating the drivers for COPD treatment decisions. António Jorge Correia Gouveia Ferreira (Coimbra, Portugal), Per Bakke, Heikki Ekroos, Stéphane Soulard, Monika Haaksmâ-Herczegh, MONTSERRAT MESTRES-SIMON, Malena Aguila-Fuentes, Janwillem Kocks, 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 Noordyn, Erika Penz
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 (Köln, 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 Phne, Anita Simonds

PA2417 Lung ultrasound assessment of focal and non-focal lung morphology in patients with ARDS – a post-hoc analysis
Marry Smit (Utrecht, Netherlands), Charalampos Pierrakos, Luigi Pisani, Frederique Paulus, Marcus Schultz, Jean-Michel Constant, Davide Chiumello, Francesco Moljoli, 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), Yukiko Sakamoto, Jo Taisuke, Hirokazu Urushiyama, Hirokazu 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 Antón

PA2422 Validity of ROX index in prediction of risk of intubation in patients with COVID-19 pneumonia
Luci Suliman (Mansoura, Egypt), Taha Abdelgwad, 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 Kiounis

PA2424 Performance of different low-flow oxygen delivery systems.
William Poncin (Bruxelles, Belgium), Gregory Reyechler, Christophe De Terwange, 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 Skylas, Panagiotis Simitsis, Gerasimos Socrates Christodoulatos, Evangelia Kandri, Georgios Antonakos, Apostolos Armaganidis, 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 Malfêrtheiner, 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
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**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 Dilektalı (Bursa, Turkey)

| PA2435 | Impact of smoking on sleep macro- and microstructure | Minh Khoa Truong (Lausanne, Switzerland), Mathieu Berger, José Haba-Rubio, Francesca Siclari, Pedro Marques-Vidal, Raphaël 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 Stachewski 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), Triwahju Astuti, Teguh Rahayu Sartono |
| PA2442 | Smoking and BMI in COPD and non-COPD patients | Spencer Keene (Maastricht, Netherlands), Annmarie 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 Khaldi, Saloua Mokaddem, Saloua Jameleddine |
| PA2445 | University Students’ Knowledge and Attitudes About Electronic Cigarettes | Aslı Görek Dilektalı (Bursa, Turkey), Ozge Aydin, 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 (Heiligenhaus, Germany), Kaid Darwiche, Francesco Bonella, Rüdiger Karpf-Wissel, Ulrich Costabel, Dirk Theegarten, Johannes Wienker, Julia Wälshcer

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, Wanhoo 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, Shotaro 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
Virtual bronchoscopy navigation versus rEBUS in patients with peripheral pulmonary lesions: efficacy in real clinical practice.
Yana Chesalina (Moscow, Russian Federation), Dmitriy Dedushkin, Natalya Karpina, Elena Larionova, Ludmila Semenova, Svetlana Shishova, Ilya Yablokov

Safety of a sheath cryoprobe for transbronchial biopsy: Preliminary results of the FROSTEBITE Trial
Jeffrey Thiboutot (Baltimore, United States of America), Christopher Kapp, Andrew Demaio, Priya Sathyarayanan, David Feller-Kopman, Hans Lee, Najib Rahmen, Gerard Silvestri, Fabien Maldonado, Lonny Yarmus

Corellation between probe-based confocal laser endomicroscopy (pCLE) and chest CT patterns in pulmonary tuberculosis
Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Uliana Smolnikova, Irina Tabanakova, Petr Yablonskiy

Transbronchial microwave ablation: feasibility and safety assessment in a porcine model

Pre-congress content Session 270 13:15 - 14:15

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)

Associations between lipid mediators and cytokine production at different stages of MTB infection
Yana Todorova (Sofia, Bulgaria), Radoslava Emilova, Vladimir Milanov, Elizabeta Bachyska, Yuliana Atanasova, Ana Baykova, Maria Nikolova

Cardiotoxicity of a complex of anti-tuberculosis drugs with the inclusion of fluoroquinolones and bedaquiline in an experiment on rats
Galina Mozhokina (Moscow, Russian Federation), Galina Mozhokina, Uliya Zuzya

Mycobacterial small noncoding RNAs MTS0997 and MTS1338 are novel virulence factors of M. tuberculosis.
Galina Shepelkova (Moscow, Russian Federation), Vladimir Evstifeev, Ilya Sivokozov, Tatiana Azhikina, Atadzhan Ergeshov, Vladimir Yeremeev

Inflammation regulating cytokines in TB affected tissues.
Vladimir Yeremeev (Moscow, Russian Federation), Galina Shepelkova, Vladimir Evstifeev, Ruslan Tarasov, Mamed Bagirov

Expression of MDR1 gene encoding P-glycoprotein is significantly increased in active pulmonary tuberculomas
Maria Erokhina (Moscow, Russian Federation), Larisa Lepekha, Ekaterina Rybalkina, Ekaterina Pavlova, Ruslan Tarasov, Elena Krasnikova, Atadzhan Ergeshov

Tatiana Smirnova (Moscow, Russian Federation), Sofya Andreevskaya, Larisa Chernousova, Elena Larionova, Atadzan Ergeshov
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 Mudarisova, Viacheslav Zhuravlev, Olga Narvskaya

Electronic antibiograms of Mycobacterium tuberculosis using Illumina whole genome sequencers data and Mykrobe software tool predictor.
Vladimir Tolchkov (Sofia, Bulgaria)

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 Yarushova, Natalia Zabolotnykh, Maria Vitovskaya, Anna Vyazovaya, Alena Gerasimova, Svetlana Zhdanova, Polina Khromova, Viacheslav Sinkov, Vladimir Molchanov, Ekaterina Chernyayeva, Natalia Solovieva, Oksana Pasechnik, Oleg Ogarkov

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

Changes in the metabolism of Mycobacterium tuberculosis during the course of TB treatment
Julia Bespyatykh (Moscow, Russian Federation)

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

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

Late Breaking Abstract - Bedaquiline enhances receptor phagocytosis and decreases IL1b production in human pro-inflammatory macrophages
Ekaterina Pavlova (Moscow, Russian Federation), Maria Erokhina
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 Balusson, Mathieu Feuillloy, Jean-Marc Girault, Nicole Meslier, Emmanuel Oger, Audrey Paris, Thierry Pigeanee, Jean-Louis Racineux, Chloé Gervès-Pinquiqué, Frédéric Gagnadoux

Positive airway pressure level based upper airway collapsibility classification – the European Sleep Apnea Database (ESADA)
Ding Zou (Göteborg, Sweden), Sophia Schiza, Tarja Saarensranta, 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 (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 Pépin, Walter McNicholas, Sophia Schiza, Tarja Saarensranta, 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 Pépin, Paschalisi 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 Chief, 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

Polysonmographic and Clinical Characteristics of Positional Obstructive Sleep Apnea Patients
Seda Beyhan Sagmen (Istanbul, Turkey), Selda Sener Comert

The value of checking sensitisation status in adults with suspected sleep apnoea
Caroline Gouder (SAN GWANN [San Gwann], Malta), Caroline Gouder, Stephen Montefort, Joan Bartra

Predictive spirometry values of maximum respiratory pressures
Miguel Trigueiro Rocha Barbosa (Viana do Castelo, Portugal), João Valenças

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)
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
 Макото Хосино (Атами, Япония), Кента Акитсу, Кенго Кубота, Юниси Охтава

PA2519 Dupilumab sustains long-term OCS reduction in OCS-dependent asthma patients
 Михаэль Э. Вехслер (Денвер, США), Лавенер, Клаус Ф. Раб, Йорге Ф. Масперо, Надия Даязеде, Хуэцзю Мао, Бенжамен Ортиз, Леда П. Маннент, Элизабетт Лэйвз, Марцелла Руддь, Нами Пандит-Абид, Дэвид Дж. Ледерер, Меган Хардин

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
 Жоао Муллоил Мирет (Барселона, Каталония, Испания), Гюгор Вольтер Конаника, Мартин Уагенманн, Андре Косте, Петер Хеллинг, Скотт Нэш, Сиддхеш Камат, Урви Мудумдар, Жероме Мшихид, Асиф Хан, Шахид Сиддикки, Юбя А. Якоб-Нара, Яммо Дениз, Пол Роу

PA2521 Efficacy of dupilumab in patients with oral corticosteroid (OCS)-dependent, severe asthma with and without an allergic phenotype: phase 3 LIBERTY ASTHMA VENTURE
 Альберто Папи (Ферра, Италия), Гуй Брусель, Брэдли Е. Чиппс, Жероме Мшихид, Юбя А. Якоб-Нара, Яммо Дениз, Пол Роу, Ребекка Галл, Бенджамен Ортиз, Михел Джаанджи, Амир Радван

PA2522 Evaluation of nasal response to birch allergen in ALYATEC EEC as compared to NPT
 Алина Геррасим (Страсбург, Франция), Алина Геррасим, Франк Дитцш, Марин Бек, Маде Мейер, Тибутаут Риф, Наталия Домис, Фрёдрю Деблю

PA2523 Platelet aggregation status in chronic obstructive pulmonary disease associated with SARS-CoV-19
 Лилия Тодорико (Червнивци, Украина), Мькола Гумениук, Ігор Семянив, Таніа Спринсьєнс, Олександр Денисов

PA2524 Severe asthma biologic treatment in the era of COVID-19 – case series
 Педро Мигель Ногуэйра Коста (Сафу, Португалия), Клудиа Чавес Лоресу

PA2525 Is asthma a risk factor for severe outcomes in COVID 19?
 Валид Феки (Сфакс, Тунисия), Амаль Сайдан, Сабрине Маддех, Нэрсине Калле, Надия Мусса, Рахма Гаргури, Амина Котти, Наджа Бахлюл, Сами Каммун

PA2526 Late Breaking Abstract - DCLK1 mediates thrombin-induced IL-8/CXCL8 expression in lung epithelial cells
 Фара Силвия Юлиани (Тайбей, Тайвань), Ін-Юн Чен, Ун-Хо Ченг, Хенг-Чинг Вен, Бінг-Чаакгг Чен, Чхен-Хуанг Лин

PA2527 Late Breaking Abstract - Steroid resistance in obese asthmatic patients: a potential role of obesity-related systemic oxidative stress
 Масако То (Сайтама, Япония), Натсуэ Хонда, Ічіно Хано, Косукэ Харуки, Ясуаси То

PA2528 Late Breaking Abstract - Hypoxia dampens the allergen-dependent adaptive immune response and ameliorates allergic asthma in vivo
 Маттіас Хойгнерер (Грац, Австрія), Ева М Стурм, Діана Шноегл, Грязня Накписвезка, Храст Олешевський, Лійг М Марш

PA2529 Late Breaking Abstract - Delivery of anti-inflammatory and anti-oxidant synthetic mRNA to a rodent ARDS model by vibrating mesh nebulisation
 Сінні Маккаррі (Гальвей, Ірліндія), Маттів Англ, Чрістфр Rohde, Клэрд Мастерсон, Ронан Маклолін, Інг Лейфі, Діані О’Тоул

PA2530 Late Breaking Abstract - Enhanced IL-33 response in differentiated human TH2 cells carrying the IL-1RL1 asthma risk genotype
 Акшяя Керті Саікмур Джаялатха (Гронінген, Нідерланди), Лаура Гессэ, Мірліс Кетелар, Мартен Ван Ден Берге, Віктор Гурві, Герард Коппелман, Мартін Навін

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, Giacomò 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

Simona Vernocchi (Gallarate, Italy), Teresa Serini, Andreas Aceranti, Ombretta Grassi, Luca Tomassino, Luca Pagliaro, Nicola Mumoli

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 Dumitrache-Rujinski, Tudor Constantinescu, Ionela Belaconi, Catalina Enne, Inna 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, Filippo 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 Wuys (Leuven, Belgium), Francesco Bonella, Nazia Chaudhuri, Francesco Varone, Danielle Antin-Ozeryks, Heiko Mueller, Carl Coeck, 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 Orcs, 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 Sadiqueen, 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, Kerícia Dantas Saraiva, Maria Alenita Oliveira, Jacinta Maria Parente Vieira, Alessandra Souza Braw, Felipê 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 Frix, 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 Wilhelmus Groot Lipman (Amsterdam, Netherlands), Thierry N. Boellaard, Cornedine J. De Gooijer, Nino Bogveradze, Eun Kyong 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 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):** 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter/Location</th>
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<tbody>
<tr>
<td>14:35</td>
<td>Introduction</td>
<td></td>
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<tr>
<td>14:40</td>
<td>A paucisymptomatic sandstorm?</td>
<td>Gioconda Gabriela Narvaez Ludeña (Sabadell, Spain)</td>
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<tr>
<td>14:50</td>
<td>A difficult case of acute lung injury</td>
<td>Silvia Puglisi (Catania (CT), Italy)</td>
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<tr>
<td>15:00</td>
<td>Cysts and systemic findings: think about rare diseases</td>
<td>Andrei Darie (Basel, Switzerland)</td>
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<tr>
<td>15:10</td>
<td>Are electronic cigarettes the real solution to quit smoking?</td>
<td>Fatima Andres Franch (Sueca (Valencia), Spain)</td>
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<tr>
<td>15:20</td>
<td>A case with a loaded answer</td>
<td>Karen Czischke Ljubetic (Santiago, Chile)</td>
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<tr>
<td>15:30</td>
<td>Discussion and Q&amp;A</td>
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</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>OA2552</th>
<th>Introduction</th>
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<tr>
<td>OA2553</td>
<td>Severe exertional dyspnoea in COPD: Implications for exercise tolerance and survival</td>
</tr>
<tr>
<td>OA2554</td>
<td>Altitude effect on COPD in SPIROMICS cohort</td>
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<td>OA2555</td>
<td>Low DLCO, reduced pulmonary blood volume and ventilatory inefficiency in smokers with mild emphysema</td>
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<tr>
<td>OA2556</td>
<td>The effects of short-term nocturnal non-invasive ventilation (NIV) on respiratory muscle functional capacity in COPD patients with chronic hypercapnic respiratory failure (CHRF)</td>
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<tr>
<td>OA2557</td>
<td>Oxygenation and electromyographic responses of the quadriceps during the 1-minute sit-to-stand in patients with severe COPD and healthy controls</td>
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<tr>
<td></td>
<td>Sarah Gephine (Québec (QC), Canada), Patrick Mucci, Mickael Martin, Didier Saey, François Maltais</td>
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<thead>
<tr>
<th>OA2558</th>
<th>Ventilation Heterogeneity in Asthma and COPD. The value of the poorly communicating fraction, as the ratio of total lung capacity to alveolar volume.</th>
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<tbody>
<tr>
<td></td>
<td>Annalisa Frizzelli (Parma, Italy), Annalisa Frizzelli, Roberta Pisi, Marina Aiello, Luigino Calzetta, Laura Marchi, Veronica Alfieri, Giuseppina Bertorelli, Giovanna Pisi, Alfredo Chetta</td>
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<tr>
<th>OA2559</th>
<th>Ultrasound diaphragm activity as a marker of clinical status and prognosis in acute exacerbations of COPD</th>
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<tr>
<td></td>
<td>Aileen Kharat (Genève, Switzerland), Martin Girard, Bruno-Pierre Dube</td>
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<tr>
<th>OA2560</th>
<th>Components of dyspnoea during incremental exercise across the COPD continuum</th>
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<tr>
<td></td>
<td>Devin Phillips (Kingston, Canada), Devin Phillips, J Alberto Neder, Amany Elbehairy, Kathryn Milne, Matthew James, Sandra Vincent, Andrew Day, Juan Pablo De-Torres, Katherine Webb, Denis O'Donnell</td>
</tr>
</tbody>
</table>

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<tr>
<th>OA2561</th>
<th>Continuous monitoring of pulse oximetry during the 6-minute walk test improves survival prediction in COPD</th>
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<tbody>
<tr>
<td></td>
<td>Danilo C Berton (Porto Alegre (RS), Brazil), Kellen S Batista, Igor D Cézar, Igor G Beneditto, Danton Pereira Da Silva, Paulo R Sanches, Juan Pablo De Torres, Marcelo B Gazzana, Marli M Knorst, J Alberto Neder</td>
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<tr>
<th>OA2562</th>
<th>Late Breaking Abstract - Validation of the 2021 GLI reference equations for static lung volumes in a general European cohort</th>
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<td>Tobias Lorenz Mraz (Wien, Austria), Marija Veselinovic, Alina Ofenheimer, Marie-Kathrin Breyer, Sylvia Hartl, Otto-Chris Burghuber, Brendan G. Cooper, Angela Zacharasiewicz, Bernd Lamprecht, Sanja Stanojevic, Robab Breyer-Kohansal</td>
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</table>

| OA2563 | Discussion |

### Channel 3  
**Session 277  
14:45 - 16:15**

**Oral presentation: Advances in childhood asthma: biologics, biomarkers and 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.

This session includes the Best Abstract for Assembly 7 - Paediatrics, entitled "Bronchial remodeling-based latent class analysis predicts exacerbations in severe preschool wheezers"

**Disease(s):** Airway diseases

**Method(s):** Pulmonary function testing  
General respiratory patient care  
Endoscopy and interventional pulmonology  
Epidemiology  
Physiology

**Chairs:** Sejal Saglani (London, United Kingdom), Valentina Fainardi (Parma (PR), Italy)

<table>
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<tr>
<th>OA2564</th>
<th>Introduction</th>
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<tr>
<th>OA2565</th>
<th>Phenotypes of persistent asthma in adolescents revealed different patterns in longitudinal asthma-related outcomes</th>
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<tr>
<td></td>
<td>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 João Vascconcelos, 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</td>
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<tr>
<th>OA2566</th>
<th>Metabolomic approach in the characterization of omalizumab responders and non-responders among children with severe asthma: a multicenter prospective study.</th>
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<td></td>
<td>Silvia Carraro (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</td>
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<tr>
<th>OA2567</th>
<th>Dupilumab efficacy in children with uncontrolled, moderate-to-severe asthma with and without an allergic phenotype</th>
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<td></td>
<td>Christian Domingo Ribas (Sabadell (Barcelona), Spain), Nikolaos 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</td>
</tr>
</tbody>
</table>
**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 Schmaußer-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 Lakoumentas, Paraskevi Xepapadaki, Maria Tsolia, Sebastian Johnston, Carlos Camargo, Andrew Bush, Vassiliki Paaevangelou, Nikos Papadopoulos

**OA2573** Late Breaking Abstract - From “back-to-school” asthma to “back-from-lockdown” asthma
Moria Be'er (Tel Aviv, Israel), Israel Amirav, Michal Cahal, Yotam Lior, Moran Lavie

**OA2574** Discussion

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**Channel 4** Session 278 14:45 - 16:15

**Oral presentation: Tobacco and nicotine research during the 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, Pulmonary vascular diseases

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

**Tag(s):** COVID

**Chairs:** Elif Dagli (Istanbul, Turkey), Stamatoula Tsikrika (Athens, Greece)

**OA2575** Introduction

**OA2576** Electronic cigarettes containing nicotine increase thrombotic activity and impair microcirculation.
Gustaf Lyytinen (Höganäs, Sweden), Amelie Bryndal, Erik Anesäter, Lukasz Antoniewicz, Anders Blomberg, Håkan Wallen, Jenny Bosson, Linnea Hedman, Fariborz Mobarrez, Sara Tehrani, Magnus Lundbäck

**OA2577** Preconceptional e-cigarette use alters tracheal gene expression in F1 Drosophila melanogaster larvae
Hanna Angstmann (Borstel, Germany), Karin Ullezka, Beate Höschler, Natalia El-Merhe, Thomas Roeder, Klaus F. Rabe, Susanne Krauss-Etschmann

**OA2578** 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 Pouloupolous, Paraskevi Katsaounou

**OA2579** 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, Baiwei 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 Karkoulias

**OA2583** Most users quit e-cigarettes without succeeding to quit smoking
Linnea Hedman (Luleå, Sweden), Helena Backman, Caroline Stridsman, Anne Lindberg, Eva Rönmark

**OA2584** 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, Fariborz Mobarez, Linnea Hedman, Sara Tehrani, Magnus Lundbäck

OA2586 Discussion

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

Chairs: Laurent Bertoletti (Saint Etienne Cedex, France), Sheila Ramjug (Altrincham, United Kingdom)

OA2587 Introduction

Venous thromboembolism associated with reduced lung function, dyspnoea and asthma in the general population
Kristin Felicia Nilassen (Køge, Denmark), Eskild Morten Landt, Suzan Al-Shuweli, Uffe Bødtker, Børge Grønne

OA2588 A case-control study on direct oral anticoagulants versus warfarin for acute pulmonary embolism in obese patients
Chinthaka Samarayake (London, United Kingdom), Colm Mccabe, Simon Slader, Tommy Tseng, Khoa Tran, James Anderson, Laura Price, S John Wort, Andrew Mccann, Gregory Keir, John Upham

OA2589 Systemic corticosteroids and the risk of venous thromboembolism in COPD patients: A nationwide study of 30.473 outpatients with severe-very severe COPD
Ema Rastoder (Hellerp, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Mohammad Isam Saeed, Alexander Svorre Jordan, Howraman Meter, Louise Tønnesen, Tor Biering-Sørensen, Anders Løkke, Niels Seersholm, Thye Lynghøj Nielsen, Jorn Carlsen, Julie Janner, Nina Godtfredsen, Ulffe Bødtker, Christian Laursen, Ole Hilberg, Filip Krag Knop, Helene Priemé, Vibeke Gottlieb, Jon Torgny Wilcke, Jens Ulrik Stehr Jensen

OA2590 The role of uric acid to creatinine ratio as predictor marker during pulmonary embolism
Konstantinos Bartzikos (Trikala, Greece), Chris Kyriakopoulos, Athena Gogali, Dimitrios Potonos, Konstantinos Exarchos, Christos Chronis, Konstantinos Kostikas

OA2591 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

OA2592 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, Mireia Boixadé, Ramon Orriols, Olga Tura-Ceide

OA2593 Right ventricular assist devices for mechanical circulatory support in acute massive pulmonary embolism: a single centre experience
Chinthaka Samarayake (London, United Kingdom), Benjamin Garfield, Sam Setlter, Simon Davies, Stephane Ledot, Colm Mccabe, S John Wort, Susanna Price, Laura Price, Richard Trimlett

OA2594 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?
Seraphim Chrysikos (Athens, Greece), Ourania Papaioannou, Theodoros Karampitsakos, Maria Anyfanti, Georgios Hillas, Kyriaki Tavernarakis, Argyris Tzouvelekis, Katerina Dimakou, Loukas Thos

OA2595 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

OA2596 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 Garcia-Ortega, Grace Oscullo, Pilar Calvillo, Raül 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-Jiménez, Soledad Reyes, Carlos F Muñoz-Núñez, Ainhoa Carreras, Ricardo Gil, Carmen Morata, Raquel López-Reyes, Luis Martí-Bonmati, Rosario Menéndez, Miguel Angel Martinez-García
### 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 (Vinnytsia, Ukraine)

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<td>14:50</td>
<td>Patients' perspective</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>14:55</td>
<td>Tuberculosis care during the COVID-19 pandemic</td>
<td>Giovanni Battista Migliori (Varese (VA), Italy)</td>
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<tr>
<td>15:10</td>
<td>Adherence to treatment for tuberculosis in the digital era</td>
<td>Helen Stagg (Edinburgh, United Kingdom)</td>
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<tr>
<td>15:25</td>
<td>The Implementation Research for Digital Technologies and TB (IR4DTB) toolkit</td>
<td>Corinne Merle (Geneva, Switzerland)</td>
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<tr>
<td>15:40</td>
<td>Future of eHealth in TB management: perspectives of patients and medical staff</td>
<td>Onno Akkerman (Groningen, Netherlands)</td>
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<td>15:55</td>
<td>Discussion and Q&amp;A</td>
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### 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)

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<td>Introduction</td>
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<td>14:50</td>
<td>Patient’s perspective</td>
<td>Niamh Cullen (Ireland)</td>
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<tr>
<td>14:55</td>
<td>Complex and multifaceted physiology of asthma and COPD</td>
<td>Richard Costello (Dublin 9, Ireland)</td>
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<td>15:10</td>
<td>Diagnosing asthma in the era of personalised medicine: biology, physiology and imaging</td>
<td>Daiana Stolz (Basel, Switzerland)</td>
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<tr>
<td>15:25</td>
<td>Linking phenotypes to personalised treatments in asthma and COPD</td>
<td>Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)</td>
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<tr>
<td>15:40</td>
<td>Multidisciplinary teamwork and care pathways for managing the eosinophilic burden in airway diseases, from asthma to COPD and chronic cough</td>
<td>Vanessa M. McDonald (Newcastle (NSW), Australia)</td>
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<td>15:55</td>
<td>Discussion and Q&amp;A</td>
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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, 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: Thierry Troosters (Leuven, Belgium), Mina Gaga (Athens, Greece)

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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)
**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 pulmonaryologist/Clinician, General practitioner, Clinical researcher, Nurse, Paediatrician, Pathologist, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Medical Student

**Chairs**: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Joanna Chorostowska-Wynimko (Warsaw, Poland), Georgia Hardavella (Athens, Greece)

**Discussants**: Sam Janes (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>14:45</td>
<td>Introduction</td>
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<tr>
<td>14:50</td>
<td>Presentation of cases by the session facilitator</td>
<td>Sam Janes (London, United Kingdom)</td>
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<tr>
<td></td>
<td><strong>Case 1</strong> - Author: Joyce Chan, Hong Kong</td>
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<tr>
<td>16:10</td>
<td>Session wrap-up</td>
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</table>

**Channel 6**

**Session 285**

**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)

<table>
<thead>
<tr>
<th>OA2633</th>
<th>Introduction</th>
<th>Kristian Brat (Brno, Czech Republic), Ivan Cundrle Jr, Milos Chobola, Ladislav Mitas, Jaroslav Ivicic, Teodor Horvath, Zdenek Merta, Marek Plutinsky, Monika Bratova, Michaela Heroutova, Pavla Kratochvilova, Pavel Homolka, Zdenek Chovanec, Michal Svoboda, Lyle Olson</th>
</tr>
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<tbody>
<tr>
<td>OA2634</td>
<td>Ventilatory efficiency for CO2 and rest end-tidal CO2 are similar predictors of post-operative pulmonary complications.</td>
<td>Pavlina Lenga (Berlin, Germany), Christian Grah, Christoph Ruwwe-Glösenkamp, Jacopo Saccomanno, Jens Rücker, Stephan Eggeling, Sven Gläser, Sylke Kurz, Gunda Leschber, Stephan Eisenmann, Marcus Krüger, Bernd Schmidt, Paul Schneider, Stefan Andreas, Marc Hinterhaner, Joachim Pfannschmidt, Andreas Gebhardt, Franz Stanzel, Angélique Holland, Andreas Kirschbaum, Birgit Becke, Olaf Scheja, Ralf-Harto Hübner</td>
</tr>
<tr>
<td>OA2635</td>
<td>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</td>
<td>Francis-Edouard GRAVIER (Bois-Guillaume, France), Pauline Smondonck, Guillaume Prieur, Clément Medrinal, Yann Combret, Jean-François Muir, Jean-Marc Baste, Antoine Cuvelier, Fairuz Boujihar, Tristan Bonnevie</td>
</tr>
<tr>
<td>OA2636</td>
<td>Effects of exercise training in people with non-small cell lung cancer before lung resection: a systematic review and meta-analysis.</td>
<td>Dimitrios Magouliotis (Larisa, Greece), Maria Fergadi, Thanos Athanasiou, Evangelos Tatsios, Despoina Koukousaki, Kalliopi Athanassiadi</td>
</tr>
<tr>
<td>OA2637</td>
<td>A meta-analysis assessing the prognostic value of neutrophil to lymphocyte ratio in lung metastasectomy for colorectal cancer</td>
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</table>
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 Stamatakos, Thrasvoulos Michos, Nikolaos Eleptheroulis, Fragkiskos Tsagkarakis, Dimitrios Xekalakis, Konstantinos Bouboulis, Antonios Katsadonis, Periklis Tomos

Chest wall resection for lung cancer: A 12-year experience in a single center

Güntuğ Bağdahan (İzmir, Turkey), Ahmet Uçvet, 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, Kootalai 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, Elisavet Babaliari, Ioannis Karampinis, Elena Bellou, Elli Keramida, Christina Gkiriouk, Irma Bracka, Spyridon Mazarakis, Theodoros Daskalos, Evaggelos Sepsas, Panagiotis 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

15:30-16:15

INDUSTRY SKILLS LAB WORKSHOP

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

Chairs: Alexander Vizel (Kazan (Republic of Tatarstan), Russian Federation), Daniel Culver (Cleveland, United States of America)

16:00 Introduction

16:05 Sarcoidosis as a multidisciplinary problem
Daniel Culver (Cleveland, United States of America)

16:20 Image-based diagnosis of sarcoidosis
Igor Tyurin (Moscow, Russian Federation)

16:35 Quality of life and fatigue in sarcoidosis
Marjolein Drent (Ede, Netherlands)

16:50 Minimally invasive diagnosis of sarcoidosis
Ilya Sivokozov (Moscow, Russian Federation)

17:05 The problem of fibrosis in sarcoidosis
Athol Wells (London, United Kingdom)

17:20 Treatment of sarcoidosis: clinical guidelines of the Russian Respiratory Society
Alexander Vizel (Kazan (Republic of Tatarstan), Russian Federation)
### Discussion and Q&A

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<th>Studio Amsterdam</th>
<th>Session 288</th>
<th>16:15 - 16:30</th>
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<tr>
<td>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</td>
<td></td>
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<tr>
<td>Chairs: Aurélie Crabbé (Ghent, Belgium), Giovanni Battista Migliori (Varese (VA), Italy), Helen Stagg (Edinburgh, United Kingdom), Corinne Merle (Geneva, Switzerland), Onno Akkerman (Groningen, Netherlands), Chair to be confirmed</td>
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<th>Studio Barcelona</th>
<th>Session 289</th>
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<tr>
<td>Breakout room: Breakout room: Symposium, Precision medicine in asthma and COPD</td>
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<tr>
<td>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)</td>
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<th>Studio London</th>
<th>Session 290</th>
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<tr>
<td>Breakout room: Breakout room: Journal session, The best of the European Respiratory Journal 2021</td>
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<tr>
<td>Chairs: Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Martin Kolb (Hamilton (ON), Canada), Silke Meiners (München, Germany), Dave Singh (Manchester, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France), Daiana Stolz (Basel, Switzerland)</td>
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<th>Studio Munich</th>
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<tr>
<td>Breakout room: Breakout room: State of the art session, Respiratory critical care</td>
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<tr>
<td>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)</td>
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<tr>
<th>Studio Paris</th>
<th>Session 292</th>
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<tr>
<td>Breakout room: Breakout room: Lungs on fire, LoF Lung cancer?</td>
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<tr>
<td>Chairs: Lucia Carolina Viola Muñoz (Bogotá, Colombia), Sam Janes (London, United Kingdom)</td>
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<tr>
<th>Channel 2</th>
<th>Session 293</th>
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<tbody>
<tr>
<td>Oral presentation: Highlights in COVID-19 diagnosis and treatment</td>
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<tr>
<td>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.</td>
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<tr>
<td>Disease(s): Respiratory critical care, Airway diseases, Pulmonary vascular diseases</td>
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<tr>
<td>Method(s): General respiratory patient care, Respiratory intensive care, Public health, Imaging, Pulmonary rehabilitation, Physiology, Cell and molecular biology</td>
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<tr>
<td>Tag(s): COVID</td>
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<tr>
<td>Chairs: Nicoletta R. Morelli (Den Haag, Netherlands), David M. G. Halpin (Exeter, United Kingdom)</td>
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<tr>
<th>OA2657</th>
<th>Introduction</th>
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<tr>
<th>OA2658</th>
<th>Worsening of gas exchange parameters at high FiO2 in COVID-19: misleading or informative?</th>
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<tbody>
<tr>
<td>Federico Raimondi (Bergamo, Italy), Luca Novelli, Gianmariano Marchesi, Ivano Riva, Lorenzo Stephan Graziol, Chiara Allegri, Roberta Bizo, Roberta Trapasso, Mariangela Amoroso, Marisa Anelli, Chiara Galimberti, Fabrizio Fabretti, Ferdinando Luca Lorinori, Fabiano Di Marco</td>
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<tr>
<th>OA2659</th>
<th>Do hospitalized COVID-19 patients have endothelial vascular dysfunction? A cohort study</th>
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<tr>
<td>MURILIO OLIVEIRA (São Carlos, Brazil), Guilherme Back, Cassia Goulart, Bianca Domingos, Ross Arena, Audrey Borghi-Silva</td>
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<tr>
<th>OA2660</th>
<th>Inhibition by umifenovir is broadly effective against coronaviruses</th>
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<tr>
<td>Irina LENEVA (Moscow, Russian Federation), Evgeny Faizuloev, Nadezhda Kartashova, Anastasya Gracheva, Ekaterina Korchevaya, Artem Poromov, Georgy Ignatyev, Victor Volok, Liubov Kozlovskaya, Svetlana Loginova, Veronika Shchukina, Ravil Khamitov</td>
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<tr>
<th>OA2661</th>
<th>Experience of using Janus kinase inhibitors in COVID-19</th>
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<tbody>
<tr>
<td>Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Olga Prikhodko, Kristina Fesyun</td>
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</table>
Predictors of negative first SARS-CoV-2 PCR despite final diagnosis of COVID-19 and association with outcome
Thomas Gille (Bobigny, France), Jean Baptiste Lascarrou, Gwennhal Colin, Aurélie Le Thuaut, Nicolas Serek, Mickael Ohana, Bertrand Sauneuf, Guillaume Geri, Jean Baptiste Mesland, Gaetane Ribeyre, Claire Hussenet, Anne Sophie Boureau

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, Shavantni Wadanamby, Alexander Lister, Jamal Bhatti, Scott Hemphill, Krzysztof Poterlowicz, Dinesh Saralaya

Validation of the CFS score in patients with Covid-19 receiving only oral 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 Dotehin, Amaani Hussain, Samuel Dale, Sarah Manning, Lindsey Dew, Thomas Ross, Leyla Wannous, Sophia Oxenburgh, Declan Murphy, Richard Gavin, Leah Taylor, Sarah Welsh, Caitlin Carolan, April Donne, Nicholas Moss, Josephine Gwinnell, Fiona Starkie, Robert Johnston, James Dumas, Johanna Jones, Kristen Davies, Richard Anderson, Peter Ireland

High pulse dose steroids in Severe COVID-19 pneumonitis refractory hypoxemia to dexamethasone
Noëlia Khalil (Oranjestad, Aruba), John Kilici, Selene Kock

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

Introduction

Channel 3: 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): Pulmonary function testing Physiology Epidemiology Imaging

Method(s): Airway diseases

Chairs: Jane C. Davies (London, United Kingdom), Simon Y. Gräber (Heidelberg, Germany)

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
Rikke Mulvad Sandvik (Hørsholm, Denmark), Marika Nathalie Schmidt, Jørgen Hovland Olsen, Sune Rubak, Anders Lindblad, Hanne Vebert Olesen, Frederik Buchvald, Tacjana Pressler, Marianne Skov, Per Gustafsson, Kim Gjerum Nielsen

Longitudinal SF6 multiple breath washout in infants and toddlers with cystic fibrosis
Rikke Mulvad Sandvik (Hørsholm, Denmark), Marika Nathalie Schmidt, Maja Valentin Krågh, Christian Voldby, Frederik Buchvald, Tacjana 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
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 children with cystic fibrosis
Marc-Alexander Oestreich (Bern, Switzerland), Thuyvanka 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
Bettina Frauchiger (Bern, Switzerland), Kathryn Ramsey, Jakob Uessmann, Elisabeth Kieninger, Carmen Casaulta, Sophie Yammine, 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
Christoph Corin Willers (Bern, Switzerland), Bettina S. Frauchiger, Enno Stranzinger, Grzegorz Bauman, Orso Pusterla, Oliver Bieri, Kathryn Ramsey, Philipp Latzin
OA2676  Sensitive automated airway-artery method to monitor progression of CF airway disease
Qianting Lv (Rotterdam, Netherlands), Rikke M. Sandvik, Kim G. Nielsen, Eleni-Rosalina Andrinopoulou, Leticia Gallardo-Estrella, Jean-Paul Charbonnier, Harm A.W.M. Tiddens

OA2677  Evaluation of SnIII parameters as outcome measures of multiple breath washout (MBW) in preschool children with cystic fibrosis
Marie-Pier Dumas (Toronto, Canada), Nicholas Karsli, Renee Jensen, Felix Ratjen

OA2678  Late Breaking Abstract - Depression and anxiety in patients with cystic fibrosis before and during Covid 19 pandemic
Kaltra Skenderaj (Parma, Italy), Valentina Fainardi, Silvia Dioni, Susanna Esposito, Giovanna Pisi

OA2679  Discussion

Channel 4  Session 295  16:30 - 18:00

Oral presentation: Impact of COVID - 19, quality assurance and technology on pulmonary function

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  Sleep and breathing disorders

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

Tag(s): COVID

Chairs: Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Aisling McGowan (Dublin 15, Ireland)

OA2680  Introduction

OA2681  Ventilation heterogeneity after COVID-19
Olga Savushkina (Moscow, Russian Federation), Alexander Cherniak, Andrey Zaitsev, Evgeniy Kryukov

OA2682  Evaluation of patient attendance to respiratory physiology in the midst of the COVID-19 Pandemic
Sophie Yearsley (Stoke-on-Trent (Staffordshire), United Kingdom), Charlotte Hurst, Helen Stone, Ian Cliff

OA2683  Implementation of the 2017 ERS Methacholine Challenge Standard
Irene Steenbruggen (Zwolle, Netherlands), Peter De Laat, Anneke H.M. Van De Geijn, Jan Willem K Van Den Berg

OA2684  Evaluation of the Global Lung function Initiative reference values for spirometry and diffusion capacity.
Kevin De Soomer (Edegem, Belgium), Lidia Casas, Hilde Vlaerenberg, Ellie Oostvteen

OA2685  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 Mccaskell, Jeremy Road, Navdeep Rakhra

OA2686  Do bacterial/viral filters impact quality assurance verification of ultrasonic spirometers?
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvester

OA2687  Breath detection algorithms effect lung function outcomes
Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreich, Bettina Frauchiger, Philipp Latzin, Kathryn Ramsey

OA2688  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, Felip Burgos, Wim Janssens

OA2689  Use of artificial intelligence for improving quality control of oscillimetry
Chiara Veneroni (Milano (MI), Italy), Andrea Acciarito, Pasquale Pompei, Alessandro Gobbi, Raffaella Dellacà

OA2690  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, Maria José Diaz-Arribas, Ibai López-De-Uralde-Villanueva

OA2691  Discussion

Channel 5  Session 296  16:30 - 18:00

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 W. Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)

**OA2692 Introduction**

**OA2693**

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)

**OA2694 Comparison between Bronchoalveolar Lavage (BAL) and blood-derived microvesicles in lung diseases**
Erica Bazzan (Padova (PD), Italy), Mariaenrica Tiné, Claudia Maria Radu , Davide Biondini, Marco Damin, Umberto Semenzato, Alvise Casara, Paolo Simioni, Manuel G. Cosio, Marina Saetta

**OA2695**

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 Krasnodembksaya

**OA2696 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

**OA2697 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

**OA2698**

LSC - 2021 - SRC family kinases modulate molecular pathways associated with mitochondrial dysfunction in idiopathic pulmonary fibrosis
Carmen Veith (Tübingen, Germany), Nicolas Kahn (nicolas.kahn@web.de / Translational Research Unit, Thoraxklinik, Heidelberg), Milena Hristova (milena_big@yahoo.com / University of Vermont, Burlington), Christopher M. Dustin (Christopher.Dustin@uvm.edu / University of Vermont, Burlington), Michael Kreuter (kreuter@uni-heidelberg.de / Translational Research Unit, Thoraxklinik, Heidelberg), Marc A Schneider (Marc.Schneider@med.uni-heidelberg.de / Translational Research Unit, Thoraxklinik, Heidelberg), Frederik-Jan Van Schooten (Evanschooten@maastrichtuniversity.nl / Maastricht University, Maastricht), Albert Van Der Vliet (albert.van-der-vliet@med.uvm.edu / University of Vermont, Burlington), Agnes Boots (a.boots@maastrichtuniversity.nl / Maastricht University, Maastricht)

**OA2699 Chronic WNT/ß-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

**OA2700 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

**OA2701 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 Porsbjerg, Lena Uller, Cecilia Andersson

**OA2702 Late Breaking Abstract - The inflammasome cluster is linked with airway NETosis in COPD**
Madeleine Ingelsten (Malmö, Sweden), Hoda Shariﬁan, Magdalena Rhedin, Johan Jirholt, Sofía Lundin, Lina Odqvist, Sofia Winslow, Andrew Higham, Thomas Southworth, Dave Singh, Alix Berton, Zala Jevnikar

**OA2703 Discussion**

**16:30-17:15**
**INDUSTRY SKILLS LAB WORKSHOP**

SEE PAGE 1
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 Poberezhets (Vinnytsia, Ukraine)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
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<tr>
<td>16:35</td>
<td>NTM: an overview of changing epidemiology</td>
<td>Marc Lipman (London, United Kingdom)</td>
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<tr>
<td>16:50</td>
<td>The challenges of diagnosing NTM</td>
<td>Emmanuelle Cambau (Paris, France)</td>
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<td>17:05</td>
<td>The highs and lows of guideline-based therapy for NTM: a case review</td>
<td>Michael Loebinger (London, United Kingdom), Jakko van Ingen (Nijmegen, Netherlands)</td>
</tr>
<tr>
<td>17:20</td>
<td>Novel NTM treatments and approaches, repurposed to bacteriophages</td>
<td>Claire Andrejak (Amiens, France)</td>
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<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
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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

**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)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>16:30</td>
<td>Introduction</td>
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<tr>
<td>16:35</td>
<td>Overview of innate and adaptive immune responses in the airways</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>16:50</td>
<td>Targeting traits in asthma and COPD</td>
<td>Anneke Ten Brinke (Leeuwarden, Netherlands)</td>
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<tr>
<td>17:05</td>
<td>The yin and yang of immunosuppression with inhaled corticosteroids in asthma and COPD</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
</tr>
<tr>
<td>17:20</td>
<td>Macrolides targeting multiple immune pathways in asthma and COPD</td>
<td>Lena Uller (Lund, Sweden)</td>
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<tr>
<td>17:35</td>
<td>Discussion and Q&amp;A</td>
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</table>
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), Mina Gaga (Athens, Greece)

16:30 - 16:35
Introduction
Jeffrey Drazen (Waltham, United States of America)

16:35 - 16:50
Clinical pneumonia: how do I make a specific diagnosis?
Lindsey Baden (Boston, United States of America)

16:50 - 17:05
Pneumonia diagnostics in high resource settings
Tobias Welte (Hannover, Germany)

17:05 - 17:20
Pneumonia diagnostics in under-resourced environments
Kathryn Maitland (Kilifi, Kenya)

17:20 - 17:55
Discussion and Q&A

17:55 - 17:55
Conclusions
Jeffrey Drazen (Waltham, United States of America)

Studio Munich
Session 301
16:30 - 18:00
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 reflexion and discussion of these cases.

Disease(s): 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)

16:30 - 16:35
Introduction

16:35 - 17:55
Presentation of cases by the session facilitator
Marieke L. Duiverman (Groningen, Netherlands)

Case 1 - Author: Kristen A. Mooij-Kalverda, Netherlands

Case 2 - Author: Syeda Nafisa, United Kingdom

Case 3 - Author: Kathryn Hendrickson, United States of America

Case 4 - Author: Mariana Ramos Martins, Portugal

17:55 - 17:55
Session wrap-up

Studio Paris
Session 302
16:30 - 18:00
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.
### Disease(s)
- Thoracic oncology

### Method(s)
- Endoscopy and interventional pulmonology
- Imaging
- Surgery

### Tag(s)
- 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)
- Georgia Hardavella (Athens, Greece)

### Session 303

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Reference</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
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<td>2732</td>
</tr>
<tr>
<td>16:35</td>
<td>Severe autoimmune syndrome in a patient with a mediastinal mass</td>
<td>Jo Raskin (Kessel-Lo, Belgium)</td>
<td>2733</td>
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<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>
<td>Amanda Tufman (München, Germany)</td>
<td>2734</td>
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<tr>
<td>17:15</td>
<td>Combination immunotherapy in mesothelioma: managing expectations and new toxicities</td>
<td>Selina Tsim (Glasgow (Glasgow), United Kingdom)</td>
<td>2735</td>
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<tr>
<td>17:35</td>
<td>Re-challenge of immunotherapy in a lung cancer patient</td>
<td>Anne-Claire Toffart (Pontcharra, France)</td>
<td>2736</td>
</tr>
<tr>
<td>17:55</td>
<td>Session wrap-up</td>
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<td>2737</td>
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### Channel 6

**Session 303**

**16:30 - 18:00**

**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.

**Disease(s)**:
- Airway diseases
- Respiratory critical care

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

**Tag(s)**: COVID

**Chairs**:
- Gernot G.U. Rohde (Frankfurt am Main, Germany)
- Daiana Stolz (Basel, Switzerland)

<table>
<thead>
<tr>
<th>OA2738</th>
<th>Introduction</th>
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<tbody>
<tr>
<td>OA2739</td>
<td><strong>COPD.Pal: Using a person-based approach to develop a self-management app for people with COPD</strong></td>
<td>Sarah Rees (SA14 8QF, United Kingdom), Liam Knox, Rachel Gemine, Sarah Bowen, Phil Groom, David Taylor, Ian Bond, Keir Lewis</td>
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<tr>
<td>OA2740</td>
<td><strong>Children’s interstitial lung diseases (chiLD) – an area of unmet educational need?</strong></td>
<td>Elise Weir (Glasgow (Glasgow), United Kingdom), Tugba Sismanlar Eyuboglu, Matthias Griese, Nicolaus Schwerk, Deborah Snijders, Steve Cunningham</td>
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<tr>
<td>OA2741</td>
<td><strong>The effect of COVID-19 on the respiratory workforce and trainee education</strong></td>
<td>Sam Bartlett-Pestell (London, United Kingdom), Annakann Navaratnam, Ini Adelaja, Martin Allen</td>
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<tr>
<td>OA2742</td>
<td><strong>Audience response systems aid confidence in managing hospitalised patients with pneumonia online</strong></td>
<td>Amir Hakim (London, United Kingdom), William Ricketts</td>
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<tr>
<td>OA2743</td>
<td><strong>Digital medical conference attendees’ reasons for attendance and ideas for conference improvement: results of an international survey</strong></td>
<td>Sai Ram (Bern, Switzerland), Carine Pannetier, Nathalie Tabin, Richard Costello, Daiana Stolz, Kevin Eva, Sören Huwendiek</td>
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<tr>
<td>OA2744</td>
<td><strong>Respiratory upskilling training sessions for redeployed clinical staff in the COVID-19 pandemic</strong></td>
<td>Nicola Smallcombe (London, United Kingdom), Annelies Sweeney, Filitsa Allwright, Rachel Crisp, Helen Mills, Rachel Gill, William Ricketts</td>
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<tr>
<td>OA2745</td>
<td><strong>Late Breaking Abstract - Survey on pulmonologists’ clinical life during the COVID-19 pandemic</strong></td>
<td>Pia Iben Pietersen (Odense NØ, Denmark), Lars Konge, Rasmus Jørgensen, Amy Farr, Christian Laursen</td>
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<td>OA2746</td>
<td><strong>Discussion</strong></td>
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<td>Time</td>
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<tr>
<td>17:30-18:15</td>
<td><strong>INDUSTRY SKILLS LAB WORKSHOP</strong></td>
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<td><strong>Chairs</strong>: Aurélie Crabbé (Ghent, Belgium), Marc Lipman (London, United Kingdom), Emmanuelle Cambau (Paris, France), Michael Loebinger (London, United Kingdom), Jakko van Ingen (Nijmegen, Netherlands), Claire Andrejack (Amiens Cedex 1, France)</td>
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<tr>
<td>18:00 - 18:15</td>
<td><strong>Studio Barcelona</strong> Breakout room: Symposium, Pharmacology of lung immune responses: which pathways to target!</td>
<td>Barcelona</td>
<td>306</td>
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<td><strong>Chairs</strong>: Tommy Palai (Gaborone, Botswana), Anneke Ten Brinke (Leeuwarden, Netherlands), Peter J. Barnes (London, United Kingdom), Lena Uller (Lund, Sweden), Chair to be confirmed</td>
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<td><strong>Chairs</strong>: Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Jeffrey Drazen (Waltham, United States of America), Lindsey Baden (Boston, United States of America), Tobias Welte (Hannover, Germany), Kathryn Maitland (Kilifi, Kenya)</td>
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<tr>
<td>18:00 - 18:15</td>
<td><strong>Studio Munich</strong> Breakout room: Lungs on fire, LoF Respiratory critical care / Sleep and Breathing disorders</td>
<td>Munich</td>
<td>308</td>
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<td><strong>Chairs</strong>: Sarang Patil (Dhule (Maharashtra), India), Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<td>18:00 - 18:15</td>
<td><strong>Studio Paris</strong> Breakout room: Grand round, Lung cancer grand round</td>
<td>Paris</td>
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<td><strong>Chairs</strong>: 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>
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<td>18:15-19:45</td>
<td><strong>INDUSTRY VIRTUAL SYMPOSIUM</strong></td>
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<td>20:00-21:30</td>
<td><strong>INDUSTRY VIRTUAL SYMPOSIUM</strong></td>
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**渠道1  会议324  09:30 - 11:30**

**语言会话：中文项目2021**

**A联合ERS/CTS会议**

**目的**：向来自欧洲呼吸学会领导和中国呼吸医学领导的专家介绍和讨论新的呼吸医学进展；提供欧洲和中国的热病呼吸疾病话题的概述。

**疾病**：支气管疾病 间质性肺疾病 呼吸感染

**方法**：一般呼吸患者护理 呼吸重症监护

**标签**：临床

**目标人群**：成人肺科医生/临床医生，临床研究者，全科医生，医学学生，呼吸重症监护医生，呼吸科住院医师，呼吸科物理治疗师，基本科学/翻译科学家，呼吸科治疗师

**主席**：Jieming Qu (上海，中国)，Nicolas Roche (巴黎，法国)

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| 09:30 | **介绍**  
| 09:35 | Seroprevalence and humoral immune durability of anti-SARS-CoV-2 antibodies: a longitudinal, population-level, cross-sectional study in Wuhan, China  
| 09:50 | Long-COVID: What will be the legacy from the pandemic?  
| 10:05 | The role of epithelium-dependent fibroblast activation in pulmonary fibrosis  
| 10:20 | Interstitial lung diseases and COVID-19: myths and reality  
| 10:35 | Radiomics in lung cancer: progress and challenges  
| 10:50 | Winners and losers:  Managing chronic respiratory patients during the COVID-19 pandemic  
| 11:05 | 讨论和Q&A |

**渠道2  会议325  09:30 - 11:00**

**口头报告：免疫学的珍珠，研究和临床试验在哮喘、alpha-1抗胰蛋白酶缺乏症和COPD**

**目的**：此会议是根据8月23日发布于ERS大会平台的摘要构建的，以PowerPoint形式提供预先录制的音频注释。现场会议计划从9月5日至7日，每名演讲者将有5分钟的现场、幻灯片展示，之后是30分钟的讨论。

**疾病**：支气管疾病

**方法**：细胞和分子生物

**主席**：Marco Idzko (维也纳，奥地利)，Christian Taube (埃森，德国)

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| OA2830 | **介绍**  
| 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 Probozęcz, Elżbieta Grabczak, Joanna Hermanowicz-Salamon, 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 a1-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 Blecker, 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

Channel 3  Session 326  09:30 - 11:00

Oral presentation: Acute and chronic lung infections in children
Aim(s): 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, Anurath Karthik

OA2844  Pulmonary function in children previously treated with empymea
Pinar Ergenekon (İstanbul, Turkey), Mehmet Cihan Senturk, Yasemin Gokdemir, Cansu Yilmaz Yegit, Muruvvet Cenk, Mine Kalyoncu, Aynur Guliyeva, Ayten Ceren Bakir, Gursu Kiyian, Fazilet Karakoc, Efi Erdem Eralp, Saniye Girit Kannis, 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 Mcnamara
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

Channel 4  Session 327  09:30 - 11:00
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 Lorent (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 Tammi, Daiana Stolz

Deteriorating health status in bronchiectasis: longitudinal data from the EMBARC registry
Stefano Aliberti (Milano (MI), Italy), Rosario Manendez, Francesco Blasi, Felix Ringshausen, Anthony Desoyza, Montserrat Vendrell, Pieter Goeminne, Eva Polverino, Wim Boersma, Pierre Regis Burgel, Katerina Dimakou, Charles Haworth, Amelia Shoemark, Megan Crichton, Adam Hill, Michal Shteinberg, Michael Loebinger, Antoni Torres, Tobias Welte, Stuart Elborn, James D. Chalmers

Quality of care in bronchiectasis using the European Respiratory Society Guidelines as a reference standard- data from the EMBARC registry

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 Salvi

Corticosteroids in severe pneumonia. A propensity score matching study based on real-life.
Adrian Ceccato (barcelona, Spain), Alessandro Russo, Enric Barbeta, Patricia Oscanoa, Giusy Tiseo, Albert Gabarrus, Pierluiggi Di Giannatale, Stefano Nogas, Francesco Menichetti, 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 (Thessaloniki, Greece), Meropi Karakioulaki, Leticia Grize, Michael Tammi, Daiana Stolz
OA2859  
External assessment and validation of the RAPID score using an international multicentre pleural infection cohort treated with intrapleural fibrinolytics  
Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Najib Rahman, Lonny Yarmus, Jason Akulian

OA2860  
LSC - 2021 - Functional profiling and visualization of stromal cell dynamics in the influenza virus infected lung  
Julie Worrell (Glasgow, United Kingdom), George Finney (g.finney.1@research.gla.ac.uk / University of Glasgow,Glasgow), Chris Hansell (chahansell@gmail.com / University of Glasgow,Glasgow), Jagtar Singh-Nijjar (jsn33@cam.ac.uk / University of Cambridge, Cambridge), Fraser Morton (fraser.morton@glasgow.ac.uk / University of Glasgow,Glasgow), John Cole (john.cole@glasgow.ac.uk / University of Glasgow,Glasgow), Megan Macleod (megan.macleod@glasgow.ac.uk / University of Glasgow,Glasgow)

OA2861  
Discussion

Channel 5  Session 328  09:30 - 11:00

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)

OA2862  
Introduction

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 Vanlenteren, Jon R Konradsen, Sten Axelsson Fisk, Fredrik Nyberg, Christophe Pedroletti, Yvonne Sjöö, Jörgen Syk, Anne Lindberg, Alf Tunsäter, Ann Elberg Jansson, Johanna Karlsson Sundbaum

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 Wing, 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, Jadhiga 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 Mc Donald, Michael Abramson, E Haydn 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. Westendorp, Steffen Loft, Zorana J. Andersen

OA2870  
Forced Vital Capacity and Mortality in The BOLD Study: Preliminary Findings  
Emmanouil Bagkeris (London, United Kingdom), Octavia Mulhern, Andre 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
Studio Amsterdam  Session 329  09:30 - 11:00

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)

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<tr>
<th>Time</th>
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<tr>
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<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Pneumothorax: rethinking the intervention paradigm</td>
<td>Rob Hallifax (Oxford (Oxfordshire), United Kingdom)</td>
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<td>09:50</td>
<td>Pleural infection: phenotyping for optimal treatment selection</td>
<td>Najib M. Rahman (Oxford, United Kingdom)</td>
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<td>10:05</td>
<td>Patient's perspective</td>
<td>Tim Cook, (United Kingdom)</td>
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<tr>
<td>10:10</td>
<td>Treating mesothelioma in 2021: what is the role of surgery and immunotherapy?</td>
<td>Anna Bibby (Bristol (Avon), United Kingdom)</td>
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<td>10:40</td>
<td>Discussion and Q&amp;A</td>
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Studio Barcelona  Session 330  09:30 - 10:10

Guidelines session: ERS guidelines on non-continuous positive airway pressure therapies in obstructive sleep apnoea

Aims: To discuss new recommendations of a recent guideline on non-continuous positive airway pressure (Non-CPAP) therapies in obstructive sleep apnoea, determined by a systematic review of the literature. It is as an update of the 2011 ERS Statement on non-CPAP therapies, advanced into a clinical guideline.

Disease(s): Sleep and breathing disorders
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Medical Technical Assistant, Nurse, Patient, Journalist

Chairs: Anita Simonds (London, United Kingdom), Winfried J. Randerath (Solingen, Germany)

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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:32</td>
<td>Clinical approach</td>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
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<td>09:42</td>
<td>Treatment options and recommendations</td>
<td>Johan Verbraecken (Edegem (Antwerp), Belgium)</td>
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<tr>
<td>09:52</td>
<td>Practical approach with cases, interactive questions and discussion</td>
<td>Joerg Steier (London, United Kingdom)</td>
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Studio London  Session 331  09:30 - 11:00

Symposium: Living with a new norm: providing quality care in the post-COVID era

Aims: To explore the delivery of safe, high-quality and innovative respiratory care in the post-COVID era.
### 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)

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<td>09:35</td>
<td>Home treatment of pulmonary embolism</td>
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<td>09:50</td>
<td>Differential diagnosis of pre- and post-capillary pulmonary hypertension: the OPTICS study and other strategies</td>
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<td>10:05</td>
<td>Low DLCO in pulmonary vascular diseases</td>
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<td>10:20</td>
<td>Portopulmonary hypertension</td>
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<td>10:35</td>
<td>Discussion and Q&amp;A</td>
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### Studio Munich Session 332 09:30 - 11:00

**State of the art session: Pulmonary vascular diseases**

**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:** Martijn A. Spruit (Horn, Netherlands), Pierantonio Laveneziana (Paris, France), Joana Cruz (Leiria, Portugal)

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<td>Patient's perspective</td>
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<tr>
<td>09:40</td>
<td>Airway diseases: how to safely investigate respiratory symptoms in the post-COVID era</td>
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<tr>
<td>09:55</td>
<td>Evidence for and practical implementation of telephone, video-call and on-line consultations</td>
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<tr>
<td>10:10</td>
<td>Effectiveness, safety and delivery of pulmonary rehabilitation</td>
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<td>10:25</td>
<td>Maintaining care for high-risk patients with cancer in a pandemic</td>
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<td>10:40</td>
<td>Discussion and Q&amp;A</td>
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### Studio Paris Session 333 09:30 - 11:00

**Clinical trials session: ALERT: Asthma in adult, in children and ILDs**

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

**Method(s):** Pulmonary rehabilitation, General respiratory patient care

**Chairs:** Richard Costello (Dublin 9, Ireland), Daiana Stolz (Basel, Switzerland)

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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

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, Sergei Ochkur, Elizabeth Jacobsen, Reynold Panettieri, Calman Prussin

Breathing exercises for specialist care asthma patients: a multicentre randomised trial

Karen Hyerrellt Andreasson (Næstved, Denmark), Søren T Skou, Charlotte Suppli Ulrik, Hanne Madsen, Kirsten Sidenius, Celeste Porsbjerg, Karin Dahl Assing, Jannie Bloch-Nielsen, Mike Thomas, Uffe Bodtger

Wrap-up by discussant and discussion

Speaker to be confirmed

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

Late Breaking Abstract - Long-term Effect of Pulmonary Rehabilitation under Nintedanib treatment in Idiopathic Pulmonary Fibrosis (FITNESS study)

Takashi Ogura (Yokohama, Japan), YOSHIHIRO MORI, KENSUKE KATAOKA, OSAMU NISHIYAMA, MASAHIKO ANDO, SHINICHI ARIZONO, TOMOYA OGAWA, AKIRA SHIRAKI, KAZUYA ICHIKADO, HIROSHI ISHIMOTO, HIROYUKI ITO, KOJI SAKAMOTO, KEISUKE TOMII, HIROMI NIRO, TORU TSUDA, KYEKO OHKADO

Wrap-up by discussant and discussion

Speaker to be confirmed

Closing remarks

Channel 6  
Session 334  
09:30 - 11:00

Oral presentation: Optimising outcomes of lung transplantation: how to move forward?

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 a 30-minutes general discussion.

This session includes the Best Abstract for Assembly 8 - Thoracic Surgery and Transplantation, entitled “Host response towards decellularised lung extracellular matrix reinforced bioinks for 3D bioprinting lung tissue for transplantation”

Disease(s): Interstitial lung diseases  Airway diseases

Method(s): Transplantation  General respiratory patient care  Surgery  Respiratory intensive care  Pulmonary rehabilitation

Chairs: Robin Vos (Leuven, Belgium), Michael Perch (Gentofte, Denmark)

OA2908 Introduction

OA2909 Interstitial lung diseases and transplantation - how to choose the best candidate?
Martina Šterclová (Praha, Czech Republic), Zuzana Kovarikova, Libor Fila, Lucie Valentova-Bartakova

OA2910 The impact of colonization with therapy-resistant pathogens on the survival rate after lung transplantation (LUTX) in cystic fibrosis (CF)
Betina Weingard (Homburg (Saar), Germany), Franziska C. Trudzinski, Sophie Schneitler, Sören Becker, Hans-Joachim Schäfers, Robert Bals, Heinrike Wilkens, Frank Langer

OA2911 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 Paolo, Andrea Ermolaio, Federico Rea, Andrea Vianello

Basiliximab vs antithymocyte globulin after lung transplantation: A national review
Bruno de Aquigui Mendes (Lisboa, Portugal), Carlos Figueiredo, Mariana Cabral, Alexandra Borba, Alexandra Mineiro, João Cardoso, Paulo Calvinho, Luisa Semedo, José Fragata

Electronic nose for detecting chronic lung allograft dysfunction in lung transplant recipients
Nynke 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 Kahnert (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.
Justine Leroux (Strasbourg, France), Sandrine Hirschi, Arnaud Essaydi, Alain Bobbot, Tristan Degot, Armelle Schuller, Anne Olland, Romain Kessler, Benjamin Renaud-Picard

LSC - 2021 - Host response towards decellularised lung extracellular matrix reinforced bioinks for 3D bioprinting of lung tissue for transplantation
Martina M. De Santis (Lund, Sweden), Ian A. N. Da Silva (ian.augusto.silva@med.lu.se / Lung Bioengineering and Regeneration (LBR), Department of Experimental Medical Sciences, Wallenberg Center for Molecular Medicine, Stem Cell Center, Lund University, Lund), Sujeeth Prithiviraj (sujeeethkumar.prithiviraj.3684@med.lu.se / Laboratory for Cell, Tissue and Organ Engineering, Department of Clinical Sciences, Wallenberg Center for Molecular Medicine, Stem Cell Center, Lund University, Lund), John Stegmayr (john.stegmayr@med.lu.se / Lung Bioengineering and Regeneration (LBR), Department of Experimental Medical Sciences, Wallenberg Center for Molecular Medicine, Stem Cell Center, Lund University, Lund), Darcy E. Wagner (darcy.wagner@med.lu.se / Lung Bioengineering and Regeneration (LBR), Department of Experimental Medical Sciences, Wallenberg Center for Molecular Medicine, Stem Cell Center, Lund University, Lund).

Discussion

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 do to rigid thoracoscopy for suspected pleural malignancy.

Disease(s): Interstitial lung diseases, Pulmonary vascular diseases, Sleep and breathing disorders, Respiratory critical care, Airway diseases, Paediatric respiratory diseases, 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).

Robotic bronchoscopy combined with needle based confocal laser endomicroscopy (nCLE) for peripheral lung cancer
Christopher Manley (Philadelphia, United States of America)

Robotic bronchoscopy for peripherial lung nodule
Felix J.F. Herth (Heidelberg, Germany)

EBUS combined with EUS-B for a complete endoscopic staging of lung cancer
Vanina Livi (Rimini (FO), Italy)

Cryobiopsy in interstitial lung diseases
Sara Tomassetti (Florence, Italy)
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<td>11:00</td>
<td>Bronchoscopic radiofrequent ablation of lung cancer</td>
<td>Daniel Steinfort (Clifton Hill (VIC), Australia)</td>
<td>Studio Barcelona</td>
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<tr>
<td>11:15</td>
<td>Rheoplasty in chronic bronchitis</td>
<td>Judith Brock (Heidelberg, Germany)</td>
<td>Studio Barcelona</td>
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<tr>
<td>11:30</td>
<td>Target lung denervation (TLD) for COPD</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
<td>Studio Barcelona</td>
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<tr>
<td>11:45</td>
<td>Endobronchial valves for lung emphysema</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
<td>Studio Barcelona</td>
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**Session 336**

Breakout room: Breakout room: Guidelines session, ERS guidelines on non-continuous positive airway pressure therapies in obstructive sleep apnoea

**Chairs:** Sophia E. Schiza (Heraklion, Greece), Johan Verbraecken (Edegem (Antwerp), Belgium), Joerg Steier (London, United Kingdom), Sumedha Narula (New Delhi, India)

**Session 337**

Guidelines session: High flow nasal cannula in adults with acute respiratory failure

**Aims:** To provide the evidence on the application of high flow nasal cannula (HFNC) in adults with acute respiratory failure in different clinical scenarios, concerning a critical and patient centered outcomes (ie. mortality, intubation, lung gas exchange, comfort, dyspnea).

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

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

**Tag(s):** Clinical

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

**Chairs:** Anita Simonds (London, United Kingdom), Winfried J. Randerath (Solingen, Germany)

**Session 338**

Breakout room: Breakout room: Hot topics, Hot news from the pleura

**Chairs:** Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Najib M. Rahman (Oxford, United Kingdom), Anna Bibby (Bristol (Avon), United Kingdom), El bieta Magdalena Grabczak (Warszawa, Poland), Charles Wong (Hong Kong, Hong Kong)

**Session 339**

Breakout room: Breakout room: Guidelines session, High flow nasal cannula in adults with acute respiratory failure

**Chairs:** Raffaele Scala (Arezzo, Italy), Simon Oczkowski (Hamilton, ON, Canada), Begüm Ergan (Izmir, Turkey), Sumedha Narula (New Delhi, India)

**Session 340**

Breakout room: Breakout room: Symposium, Living with a new norm: providing quality care in the post-COVID era

**Chairs:** Irantzu Muerza Santos (Spain), Antonio Spanevello (Milan, Italy), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Thierry Troosters (Leuven, Belgium), Ilona Tietzova (Praha, Czech Republic), Ema Swingwood (Monmouthshire, United Kingdom)

**Session 341**

Breakout room: Breakout room: State of the art session, Pulmonary vascular diseases
Chairs: Olivier Sanchez (Paris, France), Harm Jan Bogaard (Amsterdam, Netherlands), Karen M Olsson (Hannover, Germany), Laurent Savale (Le Kremlin-Bicêtre, France), Mitja Jevnikar (Paris, France)

**Studio Paris**

**Session 342**

11:00 - 11:15

Breakout room: Breakout room: Clinical trials session, 3-ALERT: Asthma in adult, in children and ILDs

Chairs: Flávia Fonseca Fernandes (Brasília, Brazil), Chair to be confirmed

**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, Anamet 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 Büsching, Sabine Schöndorf, Julia Braun, Ramona Kunz, Tamara Cerini, Milo Puhan

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 Bjoerkling, Bernhard Ulm, Anna-Maria Peckka-Egili, Daniela Leitl, Inga Jarosch, Tessa Schneeberger, Sabine Spielmanns, Rainer Gloeckl, Rembert Koczulla

OA2942 Discussion
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 Kellerrer, Kathrin Kahnter, Franziska Trudzinski, Johanna Lutter, Korbinian Berschneider, Tim Speicher, Henrik Watz, Robert Bals, Tobias Welte, Claus Vogelmeier, Rudolf Jöres

**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, Josifin Eklöf, Tor Biering-Sorensen, Vibeke Gottlieb, Karin Armbrecht, Julie Janner, Mia Moberg, Therese S. Lapperre, Thyge L. Nielsen, Andrea Browatzki, Alexander Mathiauskas, Jørgen Vestbo, Philipp Schütze, 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 PRMT7 controls monocyte migration and COPD pathogenesis
Ali Oender Yildirim (Neuherberg, Germany), Thomas Conlon, Gizem Gunes, Aicha Jeridi, Rin Kim, Gerald Burgstaller, Stijn Verleden, Tobias Stöger, Gunnar Dittmar, Melanie Königsho, Oliver Eickelberg, Henrik Watz, Robert Schneider

**OA2950** COPD exacerbation and use of methotrexate – a nationwide study of 58,580 outpatients
Christina Marisa Bergsøe (Frederiksberg, Denmark), Pradeesh Sivapalan, Josefín Eklöf, Zaigham Saghir, Rikke Sørensen, Mohamad Isam Saeed, Jens-Ulrik Staehr Jensen

**OA2951** Relationship between prior triple therapy use and benefits of budesonide/glycopyrronium/formoterol on exacerbation risk: analysis from ETHOS
Dave Singh (Manchester, United Kingdom), Klaus F Rabe, Fernando J Martinez, Martin Jenkins, Mehul Patel, Paul Dornsky

**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, Hub 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 Camiciottoli, Alberto Rocca, Mariella D’Amato, Francesco Macagno, Eleonora Ingrassia, Ulrica Scaffidi Argentina, Alessio Piraino, Luca Richeldi

**OA2954** Discussion
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  Pulmonary function testing  Public health  General respiratory patient care

Tag(s): COVID

Chairs: Liesbeth Duijts (Rotterdam, Netherlands), Myrofora Goutaki (Bern, Switzerland)

OA2955  Introduction

OA2956  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

OA2957  The Palestinian primary ciliary dyskinesia (PCD) cohort: clinical, diagnostic and genetic spectrum
Nisreen Rumnman (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, Rueben Pengelly, Ahmad Qaapur, Bruna Rubbo, James Thompson, Gabrielle Wheway, Hannah Mitchison, Jane Lucas

OA2958  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 Usennman, Insa Korten, Uri Nahum, Pablo Sinues, Sven Schulzke, Oliver Fuchs, Philipp Latzin, Martin Röösli, Urs Frey

OA2959  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

OA2960  Dietary patterns and lung function in childhood: A longitudinal study
Mohammad Talaei Pashiri (London, United Kingdom), Pauline M. Emmett, Kate Northstone, Seif O. Shaheen

OA2961  Lung function trajectories and their determinants in 4-18 year-old children from the INMA birth cohort
Sarah Koch (Vancouver, Canada), Gabriela Peralta, Anne-Ekke Carns, Lourdes Cirugeda, Jordi Sanyer, Martine Vrijheid, Raquel Garcia-Esteban, Alicia Abellan, Monica Guxens, Maties Torrent, Ferran Ballester, Amparo Ferrero, Carmen Itiguez, Carlos Zabaleta, Mikkel Basterrechea, Maribel Casas, Judith Garcia-Aymerich

OA2962  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 Blanchn, Carmen Casaulta, Karin Hoyler, Anja Jochmann, Alexander Moeller, Dominik Mueller-Suter, Nicolas Regamey, Philipp Latzin, Claudia E Kuehni

OA2963  Delayed bronchiolitis season’s onset during COVID-19 pandemic
Sergio Ghirardo (Trieste, Italy), Nicola Ullmann, Marta Luisa Ciofl Degli Atti, Massimiliano Raponi, Renato Cutrera

OA2964  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

OA2965  Discussion
Defining progression in non-IPF ILD
Tinne Goos (Leuven, Belgium), Laurens J. De Sadeleer, Jonas Yserbyt, Ellen De Langhe, Adriana Dubbeldam, Erik K. Verbeken, Geert M. Verleden, Marie Vermant, Johny Verschakelen, Robin Vos, Birgit Weynand, Stijn E. Verleden, Wim A. Wuyts

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, António 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), Cornedine J. De Gooijer, Thierry N. Boellaard, Ferdi Van Der Heijden, Zuhir Bodalal, Stefano Trebeschi, Sjaak Burgers

Subclinical ILD is frequent and progresses across different connective tissue diseases
Anna Maria Hoffmann-Vold (Oslo, Norway), Helena Andersson, Silje Reiseter, Håvard Fretheim, Imon Barua, Torhild Garen, Øyvind Midveldt, 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. Gee (Sydney (NSW), Australia), Iain Stewart, Peter Youssef, Stephen Adelstein, Donna Lai, Sheng Hua, Wendy Mr Stevens, Susanna Proudman, Gene-Siew Ngian, Ian N Glasperle, 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

OA2977 Discussion

Studio Amsterdam Session 347 11:15 - 12:45
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 2978

11:20 Early detection of thoracic malignancies and artificial intelligence: a rapidly evolving field
Annemiek Snoeckx (Edegem (Antwerp), Belgium) 2979
### Multimodality management of non-small cell lung cancer stage III: the pulmonologist as pilot and partner
Armin Frille (Leipzig, Germany)  

![2980](image)

### New treatment concepts in stage IV non-small cell lung cancer: personalised multidisciplinary approaches
Isabelle Opitz (Zurich, Switzerland)  

![2981](image)

### Approaches to radiological staging of mesothelioma relating to modern treatment modalities
Kevin Blyth (Glasgow (Glasgow), United Kingdom)  

![2982](image)

### Discussion and O&A

![2983](image)

### 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)  

**Introduction**  

![2984](image)

**Phenotypes in acute COVID: lessons from the multicentre studies**  
Charlotte Summers (Cambridge (Cambridgeshire), United Kingdom)  

![2985](image)

**Needing oxygen in COVID? Acute respiratory support (RECOVERY-RS), continuous positive airway pressure, high-flow nasal oxygen and other approaches controversies**  
Gavin D Perkins (Birmingham (West Midlands), United Kingdom)  

![2986](image)

**Research prioritisation in long COVID: using patients and experts to develop an international consensus**  
Luke Daines (Edinburgh (Edinburgh), United Kingdom)  

![2987](image)

**What have we learned from big platform trials of COVID? RECOVERY, REMAP-CAP and others**  
Lennie P. G. Derde (Utrecht, Netherlands)  

![2988](image)

**Discussion and Q&A**  

![2989](image)

### Symposium 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)  

**Introduction**  

![2990](image)

**Patient's perspective**  
Jean-Michel Fourrier (Lagny sur Marne, France)  

![2991](image)

**Natural decline of (extra) pulmonary features in patients with COPD: a slippery slope**  
Lowie G.W. Vanfleteren (Gothenburg, Sweden)  

![2992](image)
Concepts, goals, challenges and effects of maintenance programs after pulmonary rehabilitation
Carolyn Rochester (New Haven, United States of America)

Take the active option: physical activity coaching programs
Heleen Demeyer (Leuven, Belgium)

Role of digital health to improve maintenance
Brian Caulfield (Dublin, Ireland)

Discussion and Q&A

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
Tag(s): Clinical
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)

Introduction

Management of subsegmental PE
Behnood Bikdeli (New York, United States of America)

Cancer-associated thrombosis
Manuel Monreal (Badalona, Spain)

Diagnosis and treatment of PE during pregnancy
Fionnuala Ní Áinle (Dublin, Ireland)

Management of recurrent PE in patients on anticoagulant therapy
Marc Rodger (Montreal, Canada)

Discussion and Q&A

Symposium: Precision medicine in respiratory infections

The Cournand Lecture

Aims: To present the Cournand Lecture on the latest translational science in the field of bronchiectasis; to learn about 1) the ERS living guideline on the management of COVID-19 infection; 2) the latest management of hospitalized patients with COVID-19 infection; 3) about the latest methods and findings in the field of the lung microbiome; to review the latest data on biomarkers and omics technologies and how these can guide precision medicine in airways diseases

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, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Scientist (basic, translational), Respiratory therapist
Chairs: Richard Costello (Dublin 9, Ireland), Daiana Stolz (Basel, Switzerland)

Introduction

The Cournand Lecture: the renaissance of bronchiectasis
James D. Chalmers (Dundee (Angus), United Kingdom)

The lung microbiome: bench to bedside
Sanjay Haresh Chotirmall (Singapore, Singapore)

Precision medicine in airways infections
Holly Rachael Keir (Dundee (Angus), United Kingdom)
Session 352 | 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)

**OA3010** | Introduction

**OA3011** | Pulse wave amplitude variations: a new biomarker of cardiovascular risk in patients with obstructive sleep apnea in HypnoLaus and ISAAAco cohorts

Raphael Heinzer (Lausanne, Switzerland), Manuel Sánchez-De-La-Torre, Geoffroy Solelhac, Mathieu Berger, Camila Hirotsu, José Haba-Rubio, Peter Vollenweider, Gerard Waebber, Pedro Marques-Vidal, Giulio Bernardi, Monica Betta, Alicia Sánchez-De-La-Torre, Ferran Barbe

**OA3012** | Pulse-rate variability during sleep studies predicts stroke risk in patients with obstructive sleep apnea

AbdelKebir Sabil (Paris, France), Chloé Gervès-Pinquie, Margaux Blanchard, Mathieu Feuillot, Wojciech Trzezpiuz, Nicole Meslier, François Goupi, Thierry Pigeanne, Frédéric Balusson, Emmanuel Oger, Jean-Marc Girault, Frédéric Gagnadoux

**OA3013** | Association of obstructive sleep apnea with thoracic fluid volume and small airways narrowing in asthma during sleep

Xiaoshu Cao (Toronto, Canada), Cristina Franciso, Nasim Montazeri Gahajverestan, Susan Tarlo, Matthew Stanbrook, T. Douglas Bradley, Azadeh Yadollahi

**OA3014** | Changes in CB cell maturation during exposure to chronic intermittent hypoxia

Candelaria Caballero Eraso (Sevilla, Spain), Olaia Colinas, Veronica Sobrino, Carmen Calero-Acuña, Rafaela Gonzalez-Montelongo, Ricardo Pardal, José Lopez-Barneo, Patricia Ortega -saenz

**OA3015** | Altitude-induced sleep apnea is highly dependent on the ethnic (Sherpa vs Tamang) background

Gréogy Heiniger (Lausanne, Switzerland), Simon Walbaum, Claudio Sartori, Alban Lovis, Raphael Heinzer

**OA3016** | Implantable cardiac devices in sleep apnoea diagnosis: a systematic review and meta-analysis

Raoua Ben Messaoud (Grenoble, France), Charles Khouri, Jean Louis Pépin, Jean Luc Cracowski, Renaud Tamisier, Fabian Barbieri, Anna Heidbreder, Pascal Defaye, Marie Joyeux-Faure

**OA3017** | Development of a digital medicine solution for home-based obstructive sleep apnea phenotyping

Jean-Benoit Martinot (Namur, Belgium), Sébastien Bailly, Lorent Hostaux, Renaud Tamisier, Nhat-Nam Le-Dong, Jean Pépin

**OA3018** | The GLP-1 receptor agonist Liraglutide attenuates intermittent hypoxia-induced pro-inflammatory macrophage polarization in primary macrophages

Ailbhe King (Dublin 4, Ireland), Susan Fitzpatrick, Cliona O'Donnell, Silke Ryan

**OA3019** | Multimodal phenotypic labelling using awake endoscopy, drug-induced sleep endoscopy and computational fluid dynamics for mandibular advancement device treatment outcome

Karien Van den Bossche (Edegem, Belgium), Sara Op De Beeck, Marijke Dieltjens, Annelies Verbruggen, Anneke Vroegop, Johan Verbreecken, Paul Van De Heyning, Marc Braem, Olivier Vanderveken

**OA3020** | Late Breaking Abstract - Sleep apnea syndrome and atherosclerosis: VE-Cadherin as a new antiatherogenic target?

Olfa Harki (LA TRONCHE, France), Sophie Sophie Bouyon, Emeline Emeline Lemarie, Alexandra Demory, Isabelle Vilgrain, Jean-Louis Pépin, Gilles Faury, Anne Briançon-Marjollet

**OA3021** | Discussion
### 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 Yorganc o lu (Izmir, Turkey)

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>11:45</td>
<td>Introduction</td>
<td></td>
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<tr>
<td>11:50</td>
<td>Congenital bronchobiliary fistula in an adult managed with bronchoscopic cyanoacrylate glue instillation</td>
<td>Muniza Bai (PONDICHERRY, India)</td>
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<tr>
<td>12:00</td>
<td>A rare case of hemoptysis</td>
<td>Niranjan Babu Ananda Setty (Bangalore (Karnataka), India)</td>
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<tr>
<td>12:10</td>
<td>The plug thickens - a case of obstructive, bronchial mucus plugs</td>
<td>Frederikke Falkencrone Rønsholt (Kgs. Lyngby, Denmark)</td>
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<tr>
<td>12:20</td>
<td>A case of peripheral eosinophilia</td>
<td>Arvind Tomar (Meerut, India)</td>
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<td>12:30</td>
<td>Drug user related pneumopathy: a case report</td>
<td>Fábio Kunita (Rio de Janeiro, Brazil)</td>
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<tr>
<td>12:40</td>
<td>Discussion and Q&amp;A</td>
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### Skills lab

**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>
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<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tr>
<td>12:10</td>
<td>Introduction</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<tr>
<td>12:12</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>Oscillometry</td>
<td>Ronald Dandurand (Beaconsfield (QC), Canada), Chung-Wai Chow (Toronto (ON), Canada)</td>
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<tr>
<td>12:42</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>
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### Studio Amsterdam

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

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  
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  
Breakout room: Symposium, Pulmonary embolism: special situations

Chairs: Behnood Bikdeli (New York, United States of America), Manuel Monreal (Badalona, Spain), Fionnuala Ní Ainle (Dublin, Ireland), Marc Rodger (Montreal, Canada), Mitja Jevnikar (Paris, France)

**Studio Paris**  
Session 359  
Breakout room: Symposium, Precision medicine in respiratory infections

Chairs: James D. Chalmers (Dundee (Angus), United Kingdom), Sanjay Haresh Chotirmall (Singapore, Singapore), Holly Rachael Keir (Paris, France), Flávia Fonseca Fernandes (Brasilia, Brazil), Marta Almagro (Barcelona, Spain)

**Skills lab**  
Session 360  
Breakout room: 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)

Case study - Interpretation of functional assessments to set up an individualised exercise training intervention

Thierry Troosters (Leuven, Belgium), Daniel Langer (Leuven, Belgium)

13:00-14:30

**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

Cancan Qi (Groningen, Netherlands), Merlijn van Breugel, Yafee Jiang, Casper-Emil Tingskov Pedersen, Ilya Pethoukhov, Judith Vonk, Ulrike Gehring, Marijn Berg, Manrix Bügel, Orestes Caprai, Erick Forno, Andréanne Morin, Anders Ulrik Eliaen, Zhongli Xu, Maarten Van Den Berge, Martijn Nawijn, Yang Li, Wei Chen, Louis Bont, Klaus Bønnelykke, Juan Celedón, Gerard Koppelman, Cheng-Jian Xu

PA3068
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 Pecival, Ben Prangemeier, Chris O'Donoghue, Sandrine Terry, Tanya Burke, William Gunning, Vanessa E Murphy, Paul D Robinson, Peter D Šly, 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, Ånke H Maitland-Van Der Zee, Uroš Potočnik, Susanne J H Vijverberg, Anna Nopp, Caroline Nilsson, Erik Melén

Peripheral blood TSLP (thymic stromal lymphopoietin) in children as a biomarker?

Renata 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

Asthma in combination with rhinitis and eczema is associated with higher levels of type-2 inflammation and symptom burden

Viita Blöndal (Uppsala, Sweden), Christer Janson, Fredrik Sundbom, Magnus Borres, Jenny Hallgren Martinsson, Nikolaos Tsolakis, Kjell Alving, Andre Malinovschi

Relationship between longitudinal changes in type-2 inflammation and clinical outcomes in young asthmatics

Nikolaos Tsolakis (Uppsala, Sweden), Tiago Jacinto, Andre Malinovschi, Magnus Borres, Christer Janson, Kjell Alving

Asthma and atopy in overweight children

Valentina Cvejosa-Colakovska (Skopje, North Macedonia), Emilija Vlashki

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

Characteristics of children with asthma and blood eosinophilia: an observational study

Rashmi Ranjan Das (Bhubaneswar (Odisha), India), Samarendra Mahapatro, Joseph John, Manoj Panigrahi

Association of the plasma levels and gene polymorphism IL12B, IL13 with severe asthma in Malaysian 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 Cvejosa 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.

Aneeka Deen (Colombo, Sri Lanka), Jayanee Jayakaduwa, Kinkini Kottahachchi, Osanda Dissanayake, Sidath Perera, Surangi Jayakody, Chinthani 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 (matare, 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

Kalomeira Kefala (Colombes, France), Francois Lavaud, Agnes Linglart, Philippe Guerin

Pre-congress content Session 368 13:15 - 14:15

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 : Chair to be confirmed

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, Saikia Sujoy, Karaj Jola

PA3087 Bedaquiline in the treatment of multi-drug resistant non-tuberculous 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, Maleeza Shah, Kelly Pennington, Tobias Peikert

PA3089 T cell subtypes in pleural effusion of non-tuberculous and non-tuberculous patients
Neda Dahl Rooftchayee (Tehran, Islamic Republic of Iran), Majid Marjani, Neda K.Dezfili, 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), Kieji Fujiwara, Fumiko Usugi, 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 (Watford, United Kingdom), Yadee Maung Maung Myint, Sachin Ananth, Cassandra Stavropoulos, Jacob Anitha, Madhuri Vidwans, 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 Echenarro, Elena Garay Llorente, Joseba Andia Iitrarte, Larraitz Garcia Echebarria, Milagros Irribarri Pascual

PA3094 Nontuberculous mycobacteria in respiratory tract samples: what does-it mean?
Samina Essebaa (Ariana, Tunisia), Hafaoua Daghfous, Amani Ben Mansour, Soumaya Ben Saad, Soraya Fenniche, Nawel Chaouch, Leila Gharbi, Agnès Hamzaoui, Habib Ghedira, Lamine Megdiche, Leila Slim, Fatma Tritar

PA3095 Nontuberculous pulmonary mycobacteriosis caused by slowly growing nontuberculous mycobacteria as pulmonary comorbidty
Anna Sargsyan (Schelkovo, Russian Federation), Natalya Makaryants, Larisa Lepekha, Anna Zaitseva

PA3096 Late Breaking Abstract - The use of Xpert Ultra in the diagnosis of tuberculosis in childhood and adolescence
Ana Alice Amaral Ibapina Parente (Rio De Janeiro (RJ), Brazil), Rafaela Baroni Aurilio, Clemen Couto Sant'Anna, Maria De Fátima Buzhuni Pombo Sant'Anna, Afrânio Lineu Kriski, Thiago Da Silva Santos Malhaquias, Sidnei Ferreira, Claudia Stella Percira, Lenita De Mello Lima, Michely Alexandrino De Souza Pinheiro, Belize Marques Barreto

Pre-congress content  Session 369  13:15 - 14:15

E-poster: Accurate diagnosis and prediction of malignant pleural 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 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), Duneshea De Fonseka (Sheffield, United Kingdom)
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<td>PA3097</td>
<td>Subclinical myasthenia gravis in thymomas</td>
<td>Florit Marcuse (Maastricht, Netherlands), Monique Hochstenbag, Janneke G.J. Hoeijmakers, Myrurgia Abdul Hamid, Jan Damoiseaux, Jos Maessen, Marc De Baets</td>
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<td>PA3098</td>
<td>How successful are medical thoracoscopists at predicting non-expandable lung?</td>
<td>Syed Ajmal (Nottingham (Nottinghamshire), United Kingdom), Sarah Johnstone, Muhammad Tufail, Rakesh Panchal</td>
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<td>PA3099</td>
<td>Are people with mesothelioma well represented in the English cancer patient experience survey?</td>
<td>Yvonne Narrey (Nottingham, United Kingdom), Iain Stewart, Aamir Khakwani, Vanessa Beattie, Andrew Wilcock, Ian Woolhouse, Paul Beckett, Richard Hubbard, Laila Tata</td>
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<td>PA3100</td>
<td>Impact of sarcopenia in long-term symptoms in patients with malignant pleural effusion.</td>
<td>Janet Rodriguez Torres (Granada, Spain), Laura López-López, Maria Granados-Santiago, Esther Prados-Roman, Alejandro Heredia-Ciuró, Marie Carmen Valenza</td>
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<td>PA3101</td>
<td>Variation in outcomes for M1a Stage Lung cancers- Outcome in Malignant Pleural Effusion significantly worse than patients with Contralateral Lung Nodules</td>
<td>Sayed Alderazi (Birmingham (West Midlands), United Kingdom), Anne Karanuatilleke, Benjamin Sutton</td>
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<td>PA3102</td>
<td>Modified Glasgow Prognostic Score – a predictor of survival in malignant pleural effusion</td>
<td>Beatriz Martins (São Mamede De Infesta, Portugal), Mariana Serino, Pedro Magalhães Ferreira, Rita Trovisco, David Coelho, Cláudia Freitas, Natália Melo, Gabriela Fernandes, Adriana Magalhães, Hélder Novais-Bastos</td>
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<td>PA3103</td>
<td>Primary cilium regulates cell migration and mechanical contraction in mesothelioma cell models.</td>
<td>Sotirios Zarogiannis (Larisa, Greece), Ourania Kotsiou, Rajesh Jagirdar, Erasmia Rouka, Eleanna Pitaraki, Konstantinos Gourgoulianis</td>
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<td>PA3104</td>
<td>Evaluating the presence of SARS-CoV-2 RNA in the pleural fluid of patients undergoing pleural procedures without symptoms of COVID-19</td>
<td>Nikolaos I. Kanellakis (Oxford, United Kingdom), Eibah Bedawi, Nikolaos Kanellakis, Megan Fisher, Yu Zhao, Vineeth George, Anand Sundaralingam, Xuan Yao, Aurelia Gondrand, Mohamed Ellayeh, Rob Hallifax, Jeffrey Thiboutot, Christina Macrosty, Hans Lee, Jason Akulian, Lonny Yarmus, David Feller-Kopman, Tao Dong, John Wrightson, Najib Rahman</td>
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<td>PA3105</td>
<td>The atypical cells in the pleural effusion smears stained with May Grunwald Giemsa - is it a new possible tool not to overlook malignancy?</td>
<td>Elżbieta Magdalena Grabczak (Warszawa, Poland), Piotr Korczyński, Agnieszka Wiśniewska, Michal Mierzejewski, Małwina Sołtysiak, Łukasz Koperski, Rafał Krenke</td>
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**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)

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<td>PA3106</td>
<td>The role of cathepsin S in the development of inflammation in patients with severe bronchial asthma</td>
<td>Irina Demko (Krasnoyarsk (Krasnoyarsk Krai), Russian Federation), Angelina Kraposhina, Elena Sobko, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva</td>
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<td>PA3107</td>
<td>Patient characteristics and treatment of chronic rhinosinusitis with nasal polyps (CRSwNP) in Canada</td>
<td>Alison Deighton (North Vancouver, Canada), Shelagh Szabo, Alain Gendron, Roxana Dragan, Gilles Detillieux, Heather Prior, Stephen Noorduyn</td>
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<td>PA3108</td>
<td>Asthma diagnosis and severity assessment, can microRNAs help? A pilot study</td>
<td>Aref Kyyaly (Southampton, United Kingdom), Tilman Sanchez-Elser, Ramesh Kurukulaarachty, Syed Hasan Arshad</td>
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<td>PA3109</td>
<td>Anti-IL5 therapy could prevent lung function decline in severe eosinophilic asthma: data from the belgian severe asthma registry</td>
<td>Sophie Graff (Liège, Belgium), Guy Brusselle, Shane Hanon, Carine Sohy, Lieven Dupont, Rudi Peche, Alain Michils, Charles Pilette, Guy Joos, Renaud Louis, Florence Schleich</td>
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<td>PA3110</td>
<td>Intermediate-onset asthma: similarities and differences with early and late-onset</td>
<td>Martina Turrin (CORDENONS, Italy), Michele Rizzo, Silvia Tonin, Kim Lokar Oliani, Matteo Bonato, Manuel Cosio, Marina Saetta, Simonetta Baraldo</td>
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Raised FeNO in optimally-treated severe asthma identifies persistent eosinophilic chemotactic pull towards the airway
Simon Couillard (Sherbrooke, Canada), Rahul Shrimanker, Gareth Hynes, Catherine Borg, Clare Connolly, Anna Hayman, Samantha Thulborn, Angela Moran, Sarah Poole, Timothy Powell, Rekha Chaudhuri, Adel H Mansur, Lorcan P Mcgarvey, Liam G Heaney, Stephen Fowler, Peter Bradding, Ian D Pavord, Timonthy S C Hinks

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

Transcriptomic profiles of eosinophilic asthmatic patients classified according to their atopic status
Sara Gerday (Liège, Belgium), Florence Schlech, Françoise Guissard, Monique Henket, Virginie Paulus, Renaud Louis

Aero-allergen sensitization in a general population: data from the LEAD population cohort study
Franziska Kölli (Wien, Austria), Marie-Kathrin Breyer, Sylvia Hartl, Gabriele Kohlböck, Otto Burghuber, Wolfgang Pohl, Torben Sigsgaard, Emiel Wouters, Robab Breyer-Kohansal

Immunoglobulin G and subclasses in COPD exacerbator phenotype: levels in exacerbation time and clinical stability
Jordi Juanola Pla (Mataro, Spain), Ramon Boixeda Viu, Isabel Moreno Hernandez, M. Carmen De La Torre Terron, Maria Bartolomé Regué, Anna Serrano Fores, Otto Burghuber, Elisabet Palomera Fanegas, Mateu Serra Prat, Jordi Almirall Pujol

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 Millán Pons, Miguel Román-Rodriguez, Bernardo López-Andrade, Carlos Almonacid, Diurbis Velasco Álvarez, Janwillem W.H. Kocks, Borja G. Cosio

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

Higher expression of lipoxygenase and cyclooxygenase pathways in bronchial than alveolar lavage from allergic asthmatics
Nicole van der Burg (Lund, Sweden), Henning Stenberg, Zuzanna Diamant, Leif Bjermer, Ellen Tufvesson

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

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

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 Colak

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 Melén

Eosinophil-derived neurotoxin levels in serum are associated with asthma-like symptoms
Robert Movérare (Uppsala, Sweden), Magnus Molin, Andrei Malinovschi, Eleftheria Persinidou, Anders Sjölander, Christer Janson

Sex Differences in Severe Asthma
Adnan Azim (Bournemouth (Dorset), United Kingdom), Clair Barber, Laurie Lau, Matthew Harvey, Paddy Dennison, Thomas Brown, Thomas Jones, Scott Elliot, Anoop Chauhan, Ramesh Kurukullaaratchy, Peter Howarth

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)
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
Simonetta Vernocchi (Gallarate, Italy), Teresa Serini, Andreas Aceranti, Annalisa Salsa

Defining health states with visual analogue scale and Leicester Cough Questionnaire in chronic cough
Peter Cho (, United Kingdom), Katherine Rhatigan, Hannah V Fletcher, Caroline J Jolley, Richard D Turner, Surinder S Birring, Surinder S Birring

Clinically meaningful thresholds for change in cough severity visual analogue scale in chronic cough
Peter Cho (, United Kingdom), Katherine Rhatigan, Meril Oras, Hannah V Fletcher, Caroline J Jolley, Richard D Turner, Surinder S Birring, Surinder S Birring

Influenza vaccination in children with high-risk chronic diseases
Elpis Hatzigiorgou (Thessaloniki, Greece), Evangelia Argyropoulou, Alexandra Soldatou, John Tsanakas

Parents' attitude towards seasonal vaccination of children against an influenza virus
Roman Bontsevich (Belgorod, Russian Federation), Alina Mikhno, 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 drug 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

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 Hoorenbeeck

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

E-poster: Assessing the impact of COVID-19 on 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.

Disease(s): Respiratory critical care

Method(s): Respiratory intensive 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 Mancuzzo (Belo Horizonte (MG), Brazil), Carolina Marinho, Jacqueline Das Graças Ferreira De Oliveira, Aline Priscila Batista, Alvaro Lucea Torres Brandão, Ana Sophia 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 Guerrero, 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 Frébard (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, Eglantine 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

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, Lucien De Oliveira Conterno, Paulo Roberto Mendes, Ligia Roccoto Ratti, Mônica Corso Pereira

Early physiotherapy improves outcomes in Acute Respiratory Distress Syndrome in Covid-19 pneumonia
Ludivoca capitelli (San Nicola La Strada, Italy), Antonio Prisco, Dario Cuomo, Roberta Cianci, Miriam Buonincontro, Rosalba Donizzetti, 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 Lúcia 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, Tatyana Vinogradova, Evgenij Sokolovich, Petr Yablonskiy

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, Nicolo 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, Jocelyn Hall, Nicholas Hart, Patrick Murphy, Bhaskar Mukherjee, Georgios Kalfsakas

PA3175 Impact of COVID-19 pneumonia on pulmonary function, radiographic imaging and quality of life in a cohort of survivors
Mariam 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 Jameleddine

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), Rafael E. de la Hoz (New York, United States of America)

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, Anatoliy Saprykin, 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

Burnout among Healthcare Workers during COVID-19 Pandemic in Aceh, Indonesia
Rinal Dianto (Banda Aceh, Indonesia), Ferry Dwi Kurniawan, Subhan Rio Pamungkas, Marty Jawarpury, Teuku Zulfikar

Occupational and environmental exposure to SARS-CoV-2 in and around infected mink farms
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
PA3182 Potential environmental transmission routes of SARS-CoV-2 inside a large meat processing plant experiencing COVID-19 clusters
Myrna M.T. de Rooij (Utrecht, Netherlands), Reina S. Sikkema, Martijn Bouwknegt, Yvette De Geus, Kamelia Stanoeva, Sigrid J. Nieuwenweg, Ceder Raben, Lidwien A.M. Smit

PA3183 Occupational exposure to mineral fibers and incidence of recurrent chest infections in insulators
Subhabrata Moitra (Edmonton, Canada), Ali Farshchi Tabrizi, Dina Fathy, Linda Henderson, Fadi Khadour, Muhammad T. Naseem, Mohamed Osman, Lyle Melenka, Paige Lacy

PA3184 SARS-CoV-2 infection in healthcare workers in Northern Italy
Francesco Bini (Pavia (PV), Italy), Alessandro Maria Marra, Bruno Dino Bodini, Angelo De Lauretis, Maria Chiara Papetti, Stefano Carlo Zucchetti, Paola Faverio

PA3185 The occurrence of respiratory infections in relation to the occupation in a working-age population
Jouni J.K. Jaakkola (Oulu, Finland), Taina K. Lajunen, Rachel Nadif, Maritta S. Jaakkola

PA3186 Occupation and the occurrence of respiratory infections among adults with newly diagnosed asthma
Maritza S. Jaakkola (Oulu, Finland), Taina K. Lajunen, Rachel Nadif, Jouni J.K. Jaakkola

PA3187 Cumulative incidence of SARS-CoV-2 infections in health workers in Germany
Albert Nienhaus (Hamburg, Germany), Jan Felix Kersten, Martin Platten, Rita Cranen, Claudia Peters, Hilmar Wisplinghoff, Alexander Daniel Bach, Guido Michels

PA3188 Impact of particle exposure systems on acute effects in an in vitro alveolar model
Joshua Bateman (Dinas Powys, United Kingdom), Rachel Smith, Sarah Robertson, Alison Buckely, Matthew Wright, Shareen Doak, Martin Clift

PA3189 Pulmonologists’ sleep quality during COVID-19 pandemic: a nation-wide survey
Josué Pinto (Porto, Portugal), Joana Patrício, Susana Sousa, Marta Drummond

PA3190 Perception of anxiety, depression and insomnia in Tunisian healthcare workers during COVID-19 pandemic.
Islam Mejri Ep Ajili ( Hammam Lif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Asma Riahi, Samira Mhamdi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui

PA3191 Does being infected with COVID-19 have a psychological impact on healthcare workers?
Islam Mejri Ep Ajili ( Hammam Lif Ben Arous, Tunisia), Islam Mejri Ep Ajili, Asma Riahi, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui

PA3192 Clinical course and exposure characteristics of Covid-19 confirmed healthcare personnel at the lung center of the philippines
Faye Bautista (Las Pinas, Philippines), Benilda Galvez, Clarizze Francesca Moje-Tapang

PA3193 Late Breaking Abstract - Estimating the relationship between environmental exposures and acute exacerbations of COPD
Bryan Ross (Lachine, Canada), Dany Doiron, Pei Zhi Li, Andrea Benedetti, Jean Bourbeau

PA3194 Late Breaking Abstract - Air and surface contamination with SARS-CoV-2 in rooms of infected nursing home residents: the Netherlands

PA3195 Late Breaking Abstract - Differential toxicities of particulate matter components linked to air pollution and adverse health effects
Anna-Karin Larsson-Callerfelt (Lund, Sweden), Sofie Orell, Nilofar Faruqui, Jenny Rissler, Nora Marek, Daniel Kalbermatter, Lena Scholtz, Ute Resch-Genger, Linda Elowsson Rendin, Konstantina Vasilitiou, Mike Shaw, Monica Karedal

Pre-congress content Session 375 13:15 - 14:15
E-poster: COVID - 19, smoking and e-cigarettes

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 Çarkoğlu

**PA3198**
**Coping with anxiety during COVID-19 pandemics- correlations with tobacco dependence, social determinants, and COVID-19 history**
Letitia Trofor (Iasi (Iasi), Romania), Oana-Elena Rohozneau, Mona Dobrin, Ilinca 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 Karadağan (Rize, Turkey), Tahsin Gökhan Telatar, Melihet Halit Baykal, Burcu Aykanat Yurtseven

**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 Danil, 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, Pinar Ay, Osman Elbek, Fusun Yildiz, Murat Ceyhan

**PA3205**
**Can Plain Packaging be Effective without a Standard Design?**
Elif Dagli (Istanbul, Turkey), Pinar Ay, Ummuhan Sonmez, Tanzer Gezer, Osman Elbek, Fusun Yidiz, Murat Guner, Murat Ceyhan

**PA3206**
**Acute health effects of short-term use of Heated Tobacco Products – preliminary results.**
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 Karadağan (Rize, Turkey), Yalçın Kanbay, Özgür Önal

**PA3209**
**An evaluation of the hospital smoking-cessation services in Portugal**
Sofia Belo Ravara (Covilhã, Portugal), Mariana Silva Ribeiro, Hilson Cunha Filho

**PA3210**
**The Effect of Gender Difference on the Smoking Cessation**
Neslihan Özcëlik (Rize, Turkey), Songül Ozyurt

**PA3211**
**5 years’ experience of the Quitline in Hungary—where do we go next?**
Erika Pataki (Budapest, Hungary), Erzsebet Tóth, Diana Darwish, Zsuzsanna Cselko, Krisztina Bogos

**PA3212**
**Does Covid-19 affects smokers differently?**
Mariem Ferchichi (Tunis, Tunisia), Ikbel Khalfallah, Sabrine Louhaichi, Nouha Boubaker, Jamel Ammar, Basma Hamdi, Agnes Hamzaoui

**PA3213**
**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)

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<th>Certain conditions of respiratory assessment affect breathing frequency and awareness. Olivier Van Hove (Bruxelles, Belgium), Olivier Debeir, Vasileios Andrianopoulos, Dimitri Leduc, Gael Deboeck, Bruno Bonnechère</th>
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<td>Simultaneous measurement of multiple breath washout and functional lung MRI Anne-Christianne Kentgens (Grindelwald, Switzerland), Orso Pusterla, Orso Pusterla, Orso Pusterla, Orso Pusterla, Grzegorz Bauman, Grzegorz Bauman, Francesco Santini, Francesco Santini, Christoph Corin Willers, Oliver Bieri, Oliver Bieri, Philipp Latzin, Kathryn Ramsey</td>
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<td>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</td>
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<td>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</td>
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<td>Validation of manual and automated wheezing detection from audio recordings Neil Skjodt (Lethbridge (AB), Canada), Samaneh Sarraf, Ronald S. Platt, Kevin Chan</td>
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<td>Respiratory function monitoring in amyotrophic lateral sclerosis patients: 1-year analysis Sónia Isabel Silva Guerra (Viseu, Portugal), João Portela, Filipa Carriço, Daniela Rodrigues, Margarida Redondo, Tiago Pinto, Miguel Gonçalves, Marta Drummond</td>
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<td>CLE-test with cold air as provocation factor – a feasibility study Jon Andrew Hardie (Bergen, Norway), Sandra Studheim, Signe Bø, Ola Drange Røksund, Håkon Kvidal, Hege Synnøve Clemm</td>
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<td>High accuracy of automated respiratory rate readings in a novel, non-contact home monitor William Do (Worcester Park, United Kingdom), Christopher Wheeler, Maarten De Vos, Richard Russell, Mona Bafadhel</td>
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<td>PA3226</td>
<td>Exercise metabolism: the key to performance Martin Osswald (Zürich, Switzerland), Dario Kohlbrenner, Nora Nowak, Noriane a. Sievi, Diana Mandler, Renato Zenobi, Pablo Sinues, Jörg Spörr, Johannes Scherr, Malcolm Kohler</td>
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<td>Pulmonary function in children with transfusion-dependent thalassemia and its relation to serum ferritin Marwa Moaaz (Alexandria, Egypt), Omneya Badreldin, Mohamed Abougabal, Aya Fata</td>
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<td>Gender and speech related differences on thoracoabdominal motion during cognitive tasks Olivier Van Hove (Bruxelles, Belgium), Olivier Debeir, Vasileios Andrianopoulos, Dimitri Leduc, Gael Deboeck, Bruno Bonnechère</td>
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<td><strong>E-poster: Imaging in COVID-19</strong></td>
<td><strong>Aims:</strong> 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.</td>
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<td><strong>Method(s):</strong> Imaging General respiratory patient care Respiratory intensive care Pulmonary function testing Public health Pulmonary rehabilitation</td>
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<td><strong>Chairs:</strong> Mario Silva (Milan, Italy), Anna Kerpel-Fronius (Budapest, Hungary)</td>
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<td><strong>The absolute lobar and pixel analysis of COVID-19 pneumonia in CT images</strong></td>
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<td><strong>The correlation between the extent of radiological attainment of COVID-19 and oxygen demand</strong></td>
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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, Indrajeeet Das

The role of CT Thorax scans in triaging suspected cases of Covid-19
Mary Flynn (London, United Kingdom), Hyun Park, K Aguilaressguerra, 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 Fesenko (Slobozhanske, Ukraine), Tetyana Pertseva, Lada Siabro, Olena Myronenko

Outcomes of level 1 Covid-19 inpatients at six months
Jonathan Bates-Powell (Cramlington, United Kingdom), Dilraj Bhullar, Catherine Dotchin, Emily Grimshaw, Ellen Tullo, Avinish Aujayeb

Differences in host inflammatory response and severity according to gender in COVID-19
Jone Solorzano Santobeña (bilbao, Spain), Imanol Gonzalez, Beatriz Gonzalez, Alejandro Rezola, Edurne Echevarría, Sonia Castro, Marta García, 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 Akçalı, Pakize Ayşe Turan, Özgür Batum, Aysun Şengül, Zühal Ekici Ünsal, Nalan İşik Kabakoğlu, Nalan Ogan, Şerife Torun, Günülü Ak, Şule Akçay, Berna Körümcüoğlu, Nazan Şen, Pınar Mutlu, Ülkü Yılmaz

Another aspect of COVID pandemic: where has all the Flu gone?
Taya Chapman (Rayleigh, United Kingdom), Etel Etel, Harmesh Moudgil, Koottalai Srinivasan, Emma Crawford, Annabel Makan, Nawaid Ahmad

Risk contribution of comorbidities in hospitalized patients with Covid 19 pneumonia
Nikolay Kyuchukov (Pleven, Bulgaria), Ilia Krachunov, Zlatina Ivanova, Temenuzhka Ignatova-Danova, Pavлина Glogovska, Plamen Pavlov, Tsanya Popova, Yavor Ivanov
Descriptive study of patients admitted to hospital for suspected COVID19 with initial negative PCR: clinical characteristics, methods of confirmation, and most common alternative diagnoses.

Elena Curto Sánchez, Esther Palones Femenia, Inés Podzamczer Valls, Laia Cendón Panades, Albert Rafecas Codern, Fernando Gutierrez Pereyra, Vicente Plaza Moral

Asymptomatic hypoxia in Covid-19

Federico Raimondi, Luca Novelli, Arianna Ghirardi, Mariangela Amoroso, Roberta Trapasso, Mauro Gori, Michele Senni, Chiara Allegri, Roberta Biza, Marisa Anelli, Caterina Conti, Gianluca Imeri, Gianmarianno Marchesi, Ferdinando Luca Lorini, Fabiano Di Marco

Comparative analysis between survivors and deceased in the first wave of the COVID-19 pandemic

Larisa Dobrescu, Tudor Păsăreanu, Ludmila Pîslaru, Carla Glavan, Alexandra Lehocz, Adelina Neiconi, Stefan Mihaiuca, Nicoleta Bertici

Impact of bacterial co-infection with COVID-19 on morbidity and mortality

Scott Waring, Gvantsa Gamtkitsulashvili, Siddarth Kumar, Shavita Kuckreja, Ugochukwu Ekeowu, Samir Naik, Muhammad Anwar, Peter Russell

Clinical features of COVID-19 pneumonia in elderly patients

Imen Sahnoun, Soumaya Debiche, Soumaya Ben Saad, Fatma Ezzahra Dabbebi, Ameni Ben Mansour, Asma Zaaafouri, Sarra Ben Sassi, Hafaoua Daghfous, Sonia Maalej, Fatma Tritar, Leila Douik El Gharbi, Soumaya Debiche

Risk factors for long-term hospitalization in patients with COVID 19

Amani Kacem, Soumaya Ben Saad, Fatma Ezzahra Dabbebi, Soumaya Debiche, Soumaya Ben Saad, Fatma Ezzahra Dabbebi, Ameni Ben Mansour, Asma Zaaafouri, Sarra Ben Sassi, Hafaoua Daghfous, Sonia Maalej, Fatma Tritar, Leila Douik El Gharbi, Soumaya Debiche

Profile of respiratory infections among mild/asymptomatic COVID 19 patients in a tertiary referral of central India

Deepak Muthreja, Rajesh Swarnakar, Abhishek Faye

Impact of COVID-19 on patients with chronic lung disease

Etel Etel, Taya Chapman, Harmesh Moudgil, Koottalai Srinivasan, Annabel Makan, Emma Crawford, Nawaid Ahmad

Comparison of body composition, physical capacity, and immuno-metabolic profile of hospitalized patients with community-acquired pneumonia caused COVID-19, influenza, and bacteria.

Camilla Koch Ryrsø, Arnold Matovu Dungu, Maria Hein Hegelund, Andreas Vestergaard Jensen, Adin Sejdic, Daniel Faehnert-Jepsen, Rikke Krogh-Madsen, Birgitte Lindegaard

Common symptoms in hospitalized COVID-19 patients by age, severity and survival outcome – A literature review

Eileen Han, Ember Lu, Anne Heyes, Josephine Mauskopf, Marguerite Bracher, Helen Birch

Clinical Characteristics and Outcomes of Type 2 Diabetes and patients Infected with COVID-19

Soumaya Bouchareb, Hasse Biali, Soumaya Touil, Yosra Brahem, Kessisa Souhir, Jihene Ayeb, Nadia Keskes Boudawara, Elena Boussofara

The epidemiological and clinical characteristic of COVID-19 cases from the Republic of Moldova

Evelina Lesnic, Tatiana Osipov, Alina Malic, Adriana Niguleanu, Carmina Paladi

Features of the clinical course of coronavirus and bacterial pneumonia

Irina Demko, Angelina Kaposhina, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva, Elena Sobko, Elena Verbitskaya, Ksenia Shadrina

Clinical differences between elderly and nonelderly patients with COVID-19

Gülistan Karadeniz, Fatma Demirci Ucsular, Gülnur Polat, Aysu Ayrancı, Enver Yalnız, Filiz Güldaval, Melih Bülürşür, Ceyda Anar

Pre-congress content Session 379 13:15 - 14:15

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, Kyongryun Lee, 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 Masaoutis, 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 Spagno

**PA3275**
The histopathological correlate of interstitial lung abnormalities: an explant lung study

**PA3276**
Interstitial lung abnormalities with a diagnosis of idiopathic pulmonary fibrosis
Tomohiro Bando (Seto, Japan), Reoto Takei, Yasuhiro Yamano, Toshiki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Takeshi Johkoh, Junya Fukuoka, Yasuhiro Kondoh

**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 BAHR (Tunis, Tunisia), Mona Mlika, Afef 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. Hruk, Brendan Lee, Claudia Staa-Weijnitz

**PA3284**
The impact of idiopathic pulmonary fibrosis on the airway length per generation in human lung

**PA3285**
Anti–fibrotic efficacy of Lck inhibitor via the suppression of TGF–β production in regulatory T cells
Kozo Kagawa (Tokushima, Japan), Kozo Kagawa, Kazuya Koyama, Seidai Sato, Takeshi Imakura, Kojin Murakami, Naoki Takahashi, Nobuhito Natio, 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, Aykut Çilli, Güven Özkaya, Ahmet Ursavas, Can Sevinc

**PA3288**
FOLLOW-UP OF PATIENTS WITH SEVERE COVID-19 PNEUMONIA AND TORPID EVOLUTION
Oswaldo Antonio Caguana Velez (Barcelona, Spain), Oswaldo Antonio Caguana Velez, Jose Gregorio Gonzalez García, Flavio Zuccarino, Juan Martinez Llorens, Judit Villar, Joaquim Gea Guirald, Diego Rodriguez Chiaradia, Eva Balcells Vilarmau
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 (Ancona (AN), Italy), Nicolas Kahn (Heidelberg, Germany)

**PA3290**

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 Kardal, Diana Leeming, Elisabeth Bendstrup, Jannie Sand, Saher Shaker

**PA3291**

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 Crescimannino (Palermo (PA), Italy), Luca Palazzolo, Manuela Bertini, Salvatore Arrisicato, Oreste Marrone

**PA3292**

Kaposiform lymphangiomatosis in adult patients– results of sirolimus treatment

Elżbieta Radzikowska (Warszawa, Poland), Katarzyna Blasińska, Małgorzata Szolokowska, Elżbieta Wiatr

**PA3293**

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-Nuñez, Andrés Calvache-Mateo, Alejandro Heredia-Ciuró, Marie Carmen Valenza

**PA3294**

The efficacy of inhaled tiotropium add-on to budesonide/formoterol in patients with bronchiolitis obliterans after hematopoietic stem cell transplantations

Hyonsoo Joo (Seoul, Republic of Korea), Jeong Uk Lim, Chin Kook Rhee

**PA3295**

Prognostic value of respiratory variables in candidates for liver transplantation.

Hélène Pringuez (Paris, France), Antoine Beurnier, Athénais Boucly, Nathan Ebstein, Jérémie Pichen, Sophie Biluçon, Xavier Jais, Mitja Jevnikar, Étienne Marie Jutant, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale

**PA3296**

Clinical Characteristics of Methotrexate Associated Lymphoproliferative Disorders

Manabu Suzuki (Tokyo, Japan), Sachi Matsubayashi, Keita Sakamoto, Motoyasu Iikura, Shinya Isumi, Masayuki Hojo, Haruhiyo Sugiyama

**PA3297**

The frequency of the respiratory comorbidities in patients (pts) with rheumatoid arthritis (RA)

Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Larisa Botvinikova, Oksana Plekhanova

**PA3298**

Pulmonary involvement in antisynthetase syndrome: more than myopathy

Fatma Çiftci (Ankara, Turkey), Sema Nur Süsülü, Oya Kayacan

**PA3299**

Long-term oxygen therapy in complex treatment of patients with respiratory failure due to congenital kYPHOscliosis

Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Darya Sklyarova, Elizaveta Volchkova

**PA3300**

Pretransplant lung function tests in patients with malignant hemopathy undergoing stem cell transplantation.

Ichraf Anane (Sousse, Tunisia), Sana Sellami, Sahar Chakroun, Ines Kammoun, Leila Triki, Sana Benjemaa, Hela Zouari, Kaouther Masmoudi

**PA3301**

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

**PA3302**

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

**PA3303**

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 Thvenot, Eric Nguyen-Khac, Christophe Bureau, Manon Allaire, Jean-Baptiste Noubaum, Véronique Loustaud-Ratti, Xavier Cause, Philippe Sogni, Bertrand Hanslik, Marc Bourlière, Jean-Marie Péron, Nathalie Ganne-Carré, Thong Dao, Bernard Maitre, Laure Elkrief, Chantal Raherison, Tristan Le Magarou
**Pre-congress content**

**Session 381**  
13:15 - 14:15

**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 Buiteman–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 Viroille, 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 Stefānescu, Julien Caliez, Thomas Similowski, Julie Delemazure, Alexandre Demoule

- **The dynamics of dyspnea in patients (pts) with pneumonia on the background of SARS-CoV2 infection**  
  Lyudmila Konopkina (Dniepropetrovsk, Ukraine), Tetiana Pertseva, Olena Myronenko, Olha Shchudro

- **Palliative Care in hospitalized adults with COVID-19**  
  Luíza 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 Piza, 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, Debasish 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, Heidi J Dalton, Nicole White, Kei Sato, Sally Shrapnel, Jonathon P Fanning, Benoit Liquet, Samuel Hinton, Aapeli Vuorinem, Gareth Booth, Jonathan E Millar, Simon Forsyth, Mauro Panigada, John Lafey, Daniel Brodie, Eddy Fan, Antoni Torres, Davide Chiumento, Amanda Corley, Alyaa Elhazmi, Carol Hodgson, Shingo Ichiba, Carlos Luna, Srinivas Murthy, Alistair Nichol, Pauline Yeung, Mark Ogino, Antonio Pesenti, Huynh Trung Trieu, John F Fraser

Sara Picciucchi (Forlì, Italy), Antonio Vizzuso, 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 Chrysikos, Alexandros Kalogeromitros, Georgios Koukoultsios

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, Stamatios Tsipilis, Ioanna Dimopoulou, Anastasia 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, Andrea Gomes Lopes, Carlos Diaz Lopez, Francois Philippart, Bélaïd 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 Gambín (Leida, 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
Laura Price (London, United Kingdom), Benjamin Garfield, Charles Mcfadyen, Charlotte Briar, Colm Mcceabe, Stefan Ledot, Melissa Baldwin, Katerina Vlachou, Susanna Price, S John Wort, Brijesh Patel

Effect of neurophysiological facilitation techniques on functional levels and respiratory in intensive care patients
Mehmet Burak Üyaroglu (ISTANBUL, Turkey), Yasemin Cirak, Nurgül Dürüstkan 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)
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<td>Larissa Gorbach (Minsk, Belarus)</td>
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<td>Treatment of multidrug-resistant tuberculosis in Uzbekistan from 2012 to 2018: does practice follow policy?</td>
<td>Ruziulia Usmanova (Tashkent, Uzbekistan), Nargiza Parpieva, Irina Liverko, Hayk Davtyan, Olga Danisiuk, Ajay Kumar, Jamshid Gadoev, Sevak Alaverdyan, Kostyantyn Duncev, Barno Abdusamatova, Ilhomjon Butabekov</td>
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<td>Clinical and mutualal profile of extensively drug resistant tuberculosis cases in northern India.</td>
<td>Ajay Kumar Verma (Lucknow (Uttar Pradesh), India), Yash Jagdhari, Surya Kant, Richa Mishra, Kanchan Srivastava, Jyoti Bajpai</td>
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<td>Efficiency of intravenous treatment with levofloxacin in patients with MDR pulmonary tuberculosis in the intensive phase of chemotherapy</td>
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<td>Biological properties of Mycobacterium tuberculosis (Mtb) resistant to biocides</td>
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<td>Medico-social features of resistance development to new anti–TB drugs in patients with MDR/XDR TB</td>
<td>Elena Kildyuusheva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Igor Medvinsi, Sergey Skornyakov, Tatiana Lugovkina, Tatiana Umpeleva, Natalia Ereemeeva</td>
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<td>Risk factors for radiological and functional sequelae in multi-drug resistant tuberculosis</td>
<td>Mariem Ferchichi (Tunis, Tunisia), Soumaya Ben Saad, Ameni Ben Mansour, Othman Neffati, S Belhadj, Leila Slim, Hafaoua Daghfous, Fatma Tritar</td>
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<td>Tolerance to chemotherapy regimens with bedaquiline in adolescents with MDR/XDR pulmonary TB</td>
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<td>Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Maria João Cavaco, Carina Rolo Silvestre, André Nunes, Joao Araujo, Paula Raimundo, Daniel Duarte, Carla Cardoso, Natalia André, Ruta Macedo, António Domingos</td>
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<td>Tatiana Butova (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gunenius, Tetiana Sprynsian, Leonid Grechanyk, Dmytro Butov</td>
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### Pre-congress content | Session 383 | 13:15 - 14:15
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**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)

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<td>Cluster analysis of World Trade Center (WTC) related lower airway diseases</td>
<td>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</td>
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<td>A systematic review of the occupational burden of chronic obstructive pulmonary disease in the Commonwealth of Independent States</td>
<td>Denis Vinnikov (Almaty, Kazakhstan), Tatsyana Rybina, Leonid Strizhakov, Sergey Babanov, Irina Mukatova</td>
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<td>Respiratory health assessment in agricultural workers by job exposure matrices</td>
<td>Sasõ Stoleski (Skopje, North Macedonia), Jordan Minov, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimonova, Jovanka Karadzinska-Bislimonova</td>
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<td>PA3353</td>
<td>Association of COPD and Asthma COPD Overlap (ACO) with World Trade Center (WTC) occupational exposure intensity</td>
<td>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</td>
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<td>Francesco Pistelli (Pisa (PI), Italy), Duane L. Sherrill, Sandra Baldacci, Sara Maio, Laura Carrozzi, Giovanni Viegi</td>
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<td>Hyaluronic acid as predictor of occupational COPD exacerbation</td>
<td>Vasili Fedotov (Nizhny Novgorod, Russian Federation), Blinova Tatyana, Dobrotina Irina, Khlystov Alexei</td>
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<td>PA3357</td>
<td>Evolution of the respiratory function of professional divers over a 6 year period</td>
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<td>Validation of the GLI 2012 African American module in adult Zimbabwean women: A cross sectional study</td>
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<td>Galina P. Orlova (St. Petersburg, Russian Federation), Elena A. Surkova</td>
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<td>Mesothelioma in Curacao versus the Netherlands; incidence and advices for liability for compensation</td>
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<td>Joseph PYANA KITENGUE (Lubumbashi, Democratic Republic of the Congo), Fabian Mukonke Kyungu, Tony Kayembe-Kitenge, Abdon Mukalay Wa Mukalay, Benoit Nemyre</td>
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<td>Hsiao-Chi Chuang (Taipei, Taiwan), Hsiao-Chi Chuang, Kang-Yun Lee, Ta-Chih Hsiao, Jer-Hwa Chang, Han-Pin Kuo</td>
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### 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)

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<td>Impact of Aspergillus fumigatus infection on lung function in children with cystic fibrosis</td>
<td>Ludmila Balanetchi (Cluj-Napoca (Cluj), Romania), Rodica Selevestru, Mariana Cotorobai, Diana Rotaru-Cojocari, Cristina Tomacinschi, Natalia Barbova, Eva Gudumac, Svetlana Sciuca</td>
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<td>Molecular genetic characteristics of Pseudomonas aeruginosa strains isolated from children with cystic fibrosis in Moscow.</td>
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Late Breaking Abstract - Effects of a new airway clearance technology in children with cystic fibrosis - A homecar randomized controlled trial
Katarzyna Walicka-Serzysko (Warszawa, Poland), Magdalena Postek, Justyna Milczewska, Natalia Jeneralska, Aleksandra Cichocka, Ewa Siedlecka, 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 pricking tests detect sensitisations against colonising fungal species in cystic fibrosis patients?
Sara Zanella (Padova, Italy), Volker Strenger, Walter Buzina, Sophia Kienreich, Markus Egger, Andreas Pfleger, Ernst Eber

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)

PA3383 CAPTAIN: Improvements in airflow obstruction in patients with uncontrolled asthma
Dave Singh (Manchester, United Kingdom), Zelie Bailes, Neil Barnes, Louis-Philippe Boulet, Roland Buhl, Rekha Chaudhuri, Frances Gardiner, Ian Pavord, Emilio Pizzichini, David Slade, Claus F. Vogelmeier, John Oppenheimer

PA3384 CAPTAIN: Relationship between FEV1 reversibility at screening as a continuous variable and treatment response
Guy Brusselle (Ghent, Belgium), Neil Barnes, Roland Buhl, Frances Gardiner, Liam G. Heaney, Hiromasa Inoue, Giselle Mosnain, Alberto Papi, Emilio Pizzichini, Jun Tamaoki, Claus F. Vogelmeier, Agne Zarankaite, Ian Pavord

PA3385 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

PA3386 CAPTAIN: Effects of triple therapy on FEV1 response in patients with inadequately controlled asthma on ICS/LABA

PA3387 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

PA3388 Mometasone/indacaterol demonstrates similar efficacy in men and women: pooled analyses of PALLADIUM and IRIDIUM studies

PA3389 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

PA3390 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 Maspéro (Ciudad Autónoma Buenos Aires, Argentina), Huib A M Kerstjens, Kenneth R Chapman, Richard 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 Maspéro, Kenneth R Chapman, Richard N Van Zyl-Smit, Motoki 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 Mehuys, Louise Coucke, Lies Lahousse

Use of short-acting β2-agonists in patients with adult-onset asthma during 12-years

Iida 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 (PARIS, France), 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 Safioti, 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 pharmacists

Bilun Gemicioglu (İstanbul, Turkey), Nejdiye Mazican, Gunay Can, Ilkay F. Alp Yıldırım, Sonmez B. Uydes Dogan

The sustainability agenda and inhaled therapy: what do patients want?

Charlotte Renwick (London, United Kingdom), Grainne 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 Löfdahl, 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), Giulia Veronesi (Milan, Italy)

Diagnosis and management of thoracic cystic lymphangioma

Sarra Zairi (Tunis, Tunisia), mariem hadj dahmane, Habib Besrour, Mahdi Abdennadher, Amira Dridi, Yoldoz Houcine, Mouna Attia, Faouzi Mezni, Taher Mestiri, Hazem Zribi, Adel Marghli

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 Frihka
Iterative surgical resections in non-small cell lung carcinoma
Ahmet Üçvet (Izmir, Turkey), Serkan Yazgan, Özgür Samancılar, Soner Gürsoy, Ahmet Emin Erbaycu, Berna Kömürcüoğlu

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 Zairi, Adel Marghli

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 Llina

MANAGEMENT OF PULMONARY METASTASIS OF COLO-RECTAL CANCERS
mahdi Abdennadher (Ariana, Tunisia), amina abdelkbir, Imen Bouassida, Bechir Ben Rathia, Nidhal Balloumi, Hazem Zribi, Sarra Zairi, Adel Marghli

HEMATEMESIS AS UNIQUE PRESENTING SYMPTOM OF TYPICAL PULMONARY CARCINOID IN A 13-YEARS-OLD GIRL
Manuela Seminara (Bergamo, Italy), Paola Ciriacio, Ahmad Kantar, Ilaria Dalla Verde, Marta Odoni, Angelo Carretta, Giampiero Negri

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

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, Zairi Sarra, Marghli Adel

Impact of the evolutionary stage of pulmonary hydatid cyst on the postoperative course
Abdessalem Bentati (Sfax, Tunisia), Walid ABID, Zied Chaari, Aymen Ben Ayed, Imed Frikha

Secondary bronchogenic pulmonary hydatidosis: a rare entity
Imen Bouassida (Ariana, Tunisia), Rime Essid, Amina Abdelkbir, Hazem Zribi, Habib Bessrour, Mariem Affes, Sonia Ouergui, Sarra Zairi, Adel Marghli

Patients managed for a lung hydatid cyst: what do they know about their pathology?
Sarra Zairi (Tunis, Tunisia), Dorra Jaraya, Mehdi Abdennadher, Hazem Zribi, Hela Kamoun, Amira Dridi, Hedia Bellali, Tahar Mestiri, Adel Marghli

Chest wall hydatid cyst: an unusual localization
Abdessalem Bentati (Sfax, Tunisia), Aymen Ben Ayed, Walid Abid, Zied Chaari, Ahmed Ben Ayed, Imed Frikha

Primary heterotopic pleural hydatidosis: a rare entity
Imen Bouassida (Ariana, Tunisia), Rime Essid, Mahdi Abdennadher, Chaker Jaber, Sarra Zairi, Henda Neji, Amira Dridi, Hazem Zribi, Adel Marghli

SURGICAL MANAGEMENT OF PULMONARY ARTERIOVENOUS MALFORMATIONS
mahdi Abdennadher (Ariana, Tunisia), Rime Essid, Hazem Zribi, Sarra Zairi, Imen Bouassida, Henda Neji, Sonia Ouergui, Mouna Milka, Adel Marghli

Ectopic mediastinal thyroids: Surgical management and outcomes
Kenan Can Ceylan (İzmir, Turkey), Güntuğ Batuhan, Şeyda Örs Kaya

Mediastinal schwannoma
Imen Bouassida (Ariana, Tunisia), Rime Essid, Amina Abdelkbir, Hazem Zribi, Amani Ben Mansour, Ayda Ayedi, Sonia Ouergui, Adel Marghli

Thymectomy in the Management of juvenile myasthenia gravis
mahdi Abdennadher (Ariana, Tunisia), Mariem Hadj Dahmane, WIFEK SAIDANI, Hazem Zribi, Sarra Zairi, Imen Bouassida, Sonia Ouergui, 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.
Proteobacteria phylum association with airway- and emphysema-dominant COPD phenotypes defined by computed tomography
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Kairori Haldar, Mike Barer, Deepak Subramanian, David Parr, Loems Ziegler-Heitbrock, Ivo Gut, Dave Singh, Chris Brightling

Real-world exacerbation rates in Japanese patients with COPD: results from the EXACOS observational cohort study
Bo Ding (Möndal, Sweden), Rebecca Zaha, Masato Ishida, Sophie Graham, Ai Hayashi, Sam Huse, Hana Müllervá, Shigeo Muro

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 Sidletskaya

Fat-Free Mass Index and functional limitation in COPD
Sahnoun Mariam (Sfax, Tunisia), Kchaou Khouloud, Haddar Asma, Chakroun Sahar, Masmoudi Kaouthar

Is there an endotype to the treatable eosinophilic trait of chronic obstructive pulmonary disease (COPD)
Olivia Walsh (Shropshire, United Kingdom), Manoj Marathe, Harmesh Moodgil, Koottalai Srinivasan, Emma Crawford, Annabel Makan, Nawaid Ahmad

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

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 Ambruzzo, Alessandra Corino, Francesca Mariani, Ilaria Ferrarotti, Angelo Guido Corsico

The Correlation Between COPD Severity and The Left Ventricular Function
jihen Ben Halima (Tunis, Tunisia), Asma Saidane, Emma Ben Jemai, Manel Ben Halima, Haifa Zaib, Hichem Aouina

What makes Alpha1-antitrypsin deficiency patients exacerbate: a 5-year cohort
Nuno Faria (Porto, Portugal), Maria Inês Costa, Joana Gomes, Maria Sacena

COPD phenotypes on computed tomography and its relationship with exercise and ventilatory function
Lidia Marilia Valente Marques Sousa Gomes (São Pedro do Sul, Portugal), Sofia Rodrigues Sousa, João Nunes Caldeira, Samuel Pereira, Alexandra Tenda Cunha, Inês Farinha, Cidália Rodrigues

Brainstem auditory evoked potential in COPD patients: a comparative study
Asma Haddar (Sfax, Tunisia), Inès Kammoun, Rim Kammoun, Khouloud Kchaou, Ghazi Sakly, Khouchtar Masmoudi

Nutritional status in patients with chronic obstructive pulmonary disease - a first multi-centre experience in Croatia
Davorka Mursic (Zagreb, Croatia), Tajana Jalusic Gluncic, Jelena Ostojic, Sandra Skrinjaric-Cincar, Lilijana Bulat Kardum, Martina Dokoza, Alma Rozman, Natasa Karkamkovic Lazarus, Erim Besic, Miroslav Samsarzija, Andrea Vukic Dugac

Are there correlations between composite index and quality of life in COPD? DOSE vs ADO
Khouloud Kchaou (Sfax, Tunisia), Asma Chaker, Soumaya Khaldi, Sahar Chakroun, Saloua Mokaddem, Saloua Jameleddine

Association of GDF-15 with 6 minute walking test.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Paula Martin Audera, Daymara Boucle Tirador, Mayte Garcia-Enzueta, Milagros Ruiz De Infante Perez, Ana Berja, Armando Raúl Guerra, Bernardo A Eduardo Lavín, Sheila Izquierdo Cuervo, Guido Andreata, 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

Validation of COPD population screener (COPD-PS) questionnaire in a community-based setting of Nepal
Tara Ballav Adhikari (Kathamndu, Nepal), Pawan Acharya, Marieann Hogmann, Brendan Cooper, Raju Pangeni, Arjun Karki, Torben Sigsgaard, Dinesh Neupane, Per Kallestrup
**Pre-congress content**

**Session 388**

**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 disorders

**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)

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**PA3441**

**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

**PA3442**

**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

**PA3443**

**Pulmonologists collaborate with explainable artificial intelligence for superior interpretation of pulmonary function tests**

Nilaakash Das (Leuven, Belgium), Sofie Happaerts, Marko Topalovic, Wim Janssens

**PA3444**

**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

**PA3445**

**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, John Hess, Vinicio De Jesus Perez, Roham Zamanian

**PA3446**

**Pre-post evaluation of healthcare resource utilization (HCRI) among patients with COPD enrolled in a digital health intervention.**

Thomas Brazzeal (Orange, United States of America), Leanne Kaye, Rahul Gondalia, Marwa Bassiouni, Meredith Barrett, David Stempel

**PA3447**

**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 Schraner, Jörg D. Leuppi

**PA3448**

**Prompting sedentary behaviour change in COPD: Acceptability and feasibility of wearable device**

Wade Michalchuk (Toronto, Canada), Anne-Marie Selzler, Roger Goldstein, Dina Brooks

**PA3449**

**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 Verstraete (Leuven, Belgium), Nilakash Das, Iwein Gyselinck, Maarten De Vos, Wim Janssens
Pre-congress content

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

Lorna Kantoni (vinnitsa, Ukraine), Nataliia Slepchenko, Yuri Mostovoy, Dmytro Dmytriiev, Kateryna Dmytriieva

Automatic lung sound analysis accuracy: a validation study

Alexander Mathioudakis (Stockport, United Kingdom), Olga Kharevich, Elena Lapteva, Irina Kovalenko, Elena Katibnikova, Anastasia Pozdnjakova, Anatoliy Laptev, Valentin Korovkin, Irina Bezruchkho, Galina Novskaya, Irina Lantuchova, Ekaterina Monosova, Maria Zhurovich, Ivan Dulub, Olga Adamovich, Viktoria Hotko, Helena Binetskaya, Aleksey Karankevich, Vitali Dubinetski

Barriers and enablers of attendance to a virtual pulmonary rehabilitation programme

Maria Kouloupoulou (London, United Kingdom), Victoria Meyrick, Michelle Johnson, Gemma Kerslake, Peter Cho, Laura-Jane Smith, Charles Reilly, Irem Patel

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 Latzin

Comparison Of Lung Clearance Index, Impulse Oscillometry And Spirometry in Children With Primary Ciliary Dyskinesia

Pinar Ergenekon (Istanbul, Turkey), Utku Batu, Ela Erdem Eralp, Cansu Yilmaz 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 Ramamoorthy Ram Ganesh, Johnny Goodwin, Bulent Karadag, Panayiotis Kouis, Ana Reula Martin, Kim Nielsen, Mary Anne Olm, Heymuyt 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 Hüsler, Eugenie Collaud, Eva Pedersen, Claudia Kuehni, Myrofora Goutaki

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
The role of genetics in diagnosing primary ciliary dyskinesia (PCD) in pediatric patients in Gothenburg, Sweden.  
Christina Kavouridou (Brämhult, Sweden), Karsten Kötz

Case series of 25 children with Primary Ciliary Dyskinesia (PCD): evolution over the last 33 years  
Sergio Iniesta González (Valencia, Spain), Diannet Quintero García, Ángela Moreno Palomino, Ana Barrés Fernández, Silvia Castillo Corullón

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 Kuehn

Depression and anxiety in mothers of home ventilated children before and during COVID-19 pandemic  
Pinar Ergenekon (Istanbul, Turkey), Cansu Yılmaz Yegit, Muruvvet Cenk, Nilay Baş Ikizoglu, Emnine Atag, Yasemin Gökdemir, Ela Erdem Eralp, Bulent Karadag

Effect of standardized hands-on-training in caregivers of children with tracheostomy  

The effect of training the health care providers with simulation model on the care of patients with chronic tracheostomy  

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 Borrero-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 narrative. 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), Chair to be confirmed

Correlation between initial oxygen desaturation and initial chest scan findings of COVID19  
arbia chaieb (Tunis, Tunisia), Sarra Maazaoui, Sonia Habibech, Mariem Friha, Täsni Zneigui, Neder Mefteh, Slim Ghdira, Hajar Racil, Nawel Chaouch

Blood lactate level in patients with severe COVID-19: Does it have any added value?  
Raghdha Hassan (Telford, United Kingdom), H Moudgil, E J Crawford, A Makan, S Srinivasan, N Ahmad

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 Arulanandam, Dileep Nair, Haleema Siddique, Eleanor Tindall, Efštathia Venizelou, Andrew Womersley, Charlotte Campbell, Mitra Shahidi

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 Danaevska

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 Moatemi, 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), Bochra Karaborni, Amine Boufaress, 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 Achilleas Arkoudis, Athanasios Tsochatzis, 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, Mohamamd 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

### Pneumomediastinum 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 Khalfallah, Safa Marzouki, Line Kaabi, Rihab Jebeli, Mohamed Ali Kharrat, Jamel Ammar, Besma Hamdi, Agnes 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 Kumlrien 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), Benzarti Wafa, Hajjej Sabri, Knaz Asma, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Benzarti Mohamed, Gargouri Imen

### Prognostic value of neutrophil-to-lymphocyte ratio in hospitalized patients with COVID-19

Nouha Boubaker (Nabeul, Tunisia), Besma Hamdi, Sabrine Louhaichi, Ikbel Khalfallah, Mariem Ferchichi, Safa Belkhir, Jamel Ammar, Agnes Hamzaoui

### Urinalysis parameters as a useful tool to predict severity in coronavirus disease 2019 (COVID19)

Warda Jelassi (TUNIS, Tunisia), Meriem Mjid, Yosra Yahia, Y Messaoudi, Saoussen Khari, Asma Allouche, Marwa Klila, Yacine Ouaichi, Mahdi Gharbi, Sana Cheikhrouhou, Hamida Maghraoui, Foued Daly, Samira Merai, Sonia Toujani, Besma Dhahri
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 Jaksch, 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 Blevenbergh, Bart M. Vanaudenaerde, Stijn E. Verleden, Laurens J. Ceulemans, Dirk E. Van Raemdonck, Geert M. Verleden, Robin Bos, 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

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**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
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<td>Identification and analysis of clinical phenotypes in COPD patients: PALOMB Cohort</td>
<td>El-hassane Ouailaya (Bordeaux, France), Maëva Zysman, Émilie Berteaud, Laurent Falque, Emmanuel Monge, Laurent Nguyen, Annaig Ozier, Jean Michel Dupis, Marielle Sabatini, Cécilia Nocent-Ejani, 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 Daoudi, Élodie Blanchard, Julie Macey, Rémi Veillon, Xavier Demant, Claire Bon, Leo Grasison, Mathieu Molimard, Chantal Raherison-Semjen</td>
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<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>
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<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, Xiao-Mei Mai, Lowie Vanfleteren, Arnulf Langhammer</td>
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<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>
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<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, René 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>
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<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 Möller Weinreich, Christian Torp-Pedersen</td>
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<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>
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<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>
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<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), Marieann Hogmann, Brendan Cooper, Anupa Rijal, Arne Drews, Arjun Kark, Torben Sigsgaard, Dinesh Neupane, Per Kallestrup</td>
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<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-Aymerich, Garun Hamilton, Davids John, Peter Frith, Rosa Faner, Alvar Agusti, Michael Abramson, Jennifer Perret, Caroline Lodge</td>
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<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>
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<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 Cziszek, Fernando Saldias, 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>
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<td>PA3514</td>
<td>Relationship status and respiratory diseases: an analysis on a general population sample</td>
<td>Lucia Cazzolletti (Verona (VR), Italy), Maria Elisabetta Zanolin, Leonardo Antonicelli, Salvatore Battaglia, Roberto Bono, Angelo Corsico, Nicola Murgia, Mario Oliveri, Pietro Pirina, Giuseppe Verlato, Marcello Ferrari</td>
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<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 Pinnock, Ee Ming Khoo, Aziz Sheik, Su-May Liew, Chiu-Wan Ng, Rita Isaac, Karuthan Chinna, Li Ping Wong, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong-Kee Pang, Sanjay Juvekar</td>
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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, Adrian 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 Mguuza, Bridie O'Dowd, Nicola Lee, Freda Yang, Tracyanne Grandison, Victor Noguera, Katrina Bissett, Malcolm Shepherd, Rekha Chaudhari

Bronchial Thermoplasty and severe asthma with frequent severe exacerbations: a controlled study.
Justine Leroux (Strasbourg, France), Naji Khayath, Cezar Matut, Diana Ochea, Francois 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, Elen Rapsomaniki, Keith Peres Da Costa, Yang Xu, Jennifer K Quint

Efficacy of different dosing regimens 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, Jaleelahbeevi Bte Noor Mohamed, Mei Fong Liew, Pee Hwee Pang, John Abisheganaden, Tow Keang Lim, Hui Fang Lim
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<td>PA3531</td>
<td>Spirometric changes in bronchodilation tests as predictors of asthma diagnosis and treatment response in patients with FEV1 =80% predicted</td>
<td>Min Zhang, China; Huijuan Hao, Wuping Bao, Yishu Xue, Yan Zhou, Zhihuan Huang, Dongning Yin, Yingying Zhang, Pengyu Zhang, Chengjian Lv, Lei Han, Xin Zhou, Junfeng Yin</td>
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<td>PA3532</td>
<td>Use of health care and management of asthma patients in the emergency room during the COVID 19 pandemic: lessons for the next wave.</td>
<td>Simon Foulquier, Bruguières, France, Elise Noel Savina, Laurent Guilleminault, Alain Didier, Frederic Balen</td>
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<td>PA3533</td>
<td>The effects of nebulised beta-2 agonists on clinical observations in asthma exacerbations: a systematic review</td>
<td>Craig Mortimer, Sevenoaks (Kent), United Kingdom, Dimitra Nikoletou, Ann Ooms, Julia Williams</td>
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<td>PA3534</td>
<td>Inhaled antibiotic therapy in patients with severe asthma</td>
<td>ELENA AVALOS PEREZ-URRIA, Spain, Rosa Maria Girón Moreno, Carolina Victoria Cisneros Serrano, Elisa Martínez Besteiro, Marta Erro Iribarren, Adrián Martínez Vergara, Ana Martínez Meca, Julio Ancochea</td>
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<td>PA3535</td>
<td>Shared decision making in severe asthma therapy: qualitative study of physician-patient communication</td>
<td>Ember Lu, Philadelphia, United States of America, Katya Solovyeva, Zachary Hebert, Lisa Kietzer, Simon Griffiths, Zeina Eid Antoun, Tom Keeley, Rafael Alfonso-Cristancho</td>
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<td>PA3536</td>
<td>Late Breaking Abstract - Response to mepolizumab in patients with severe CRSwNP using EUFOREA 2021 criteria</td>
<td>Claire Hopkins, London, United Kingdom, Joseph K Han, Valerie J Lund, Claes Bucht, Zuzana Diamant, Wystke Fokkens, Ana R Sousa, Steven G Smith, Shbing Yang, Bhabita Mayer, Steve W Yancey, Robert Chan, Stella E Lee</td>
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<td>PA3537</td>
<td>Late Breaking Abstract - Two-year cumulative oral corticosteroid exposure in severe eosinophilic asthma before and after anti-IL-5 therapy</td>
<td>Johannes A Kroes, Leeuwarden, Netherlands, Sybrand W J Zielhuis, Kim De Jong, Sander W Zielhuis, Eric N Van Roon, Elisabeth H D Bel, Anneke Ten Brinke</td>
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<td>PA3538</td>
<td>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</td>
<td>Marek Lommatzsch, Rostock, Germany, Stephanie Korn, Tanja Plate, Thorsten Gründ, Henriek Watz</td>
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<td>PA3539</td>
<td>Late Breaking Abstract - International, prospective real-world study of mepolizumab in patients with severe asthma at one year: REALITI-A</td>
<td>Charles Pilette, Bruxelles, Belgium, Giorgio Walter Canonica, Rekha Chaudhuri, F. Eun-Hyung Lee, Jason Kihyuck Lee, Carlos Almonacid Sanchez, Rafael Alfonso-Cristancho, Rupert Jakel, Aoife Maxwell, Robert Price, Peter Howarth</td>
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**Pre-congress content**

**Session 394**

**Time:** 13:15 - 14:15

**E-poster: Thoracic ultrasound as a bedsdie 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, Pia Iben Pietersen

**Abstracts:**

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<td>Diagnosing pneumothorax through standardized bilateral ultrasound images comparison</td>
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<td>PA3543</td>
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<td>Abdul Rasheed Qureshi, Lahore, Pakistan</td>
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<td>PA3544</td>
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<td>Maged Hassan, Alexandria, Egypt, Marawan Abo Ouf</td>
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### 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)

#### PA3548

**Recognising the long-term burden of short course oral corticosteroids**

Liam G. Heaney (Belfast, United Kingdom), Florence Schleich, Stephanie Korn, Peter Howarth, Zeina Eid Antoun, Arnaud Bourdin, Giorgio W. Canonica

#### PA3549

**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

#### PA3550

**Assessing Variability of Greenhouse Gas (GHG) Emission Estimates from Inhaled Medicines**

Nigel Budgen (Macclesfield, United Kingdom), Andy Whiting, Michael Collins, John Bell

#### PA3551

**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

#### PA3552

**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

#### PA3553

**Adherence to medication advice through a remote electronic asthma and COPD service**

Niels Schipper (Groningen, Netherlands), Anna Jetske Baron, Bertine M.J. Fokstra-De Blok, Hans Wouters, Esther I. Metting, Ellen Van Heijst, Ronald A. Riemersma, Huib A.M. Kerstjens, Janwillem W.H. Kocks

#### PA3554

**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

#### PA3555

**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

#### PA3556

**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

#### PA3557

**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

#### PA3558

**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, Sanir Gupta

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

Acceptability of healthcare professionals to get vaccinated against COVID-19 two weeks before initiation of national vaccination in Greece
Athanasia Pataki (Thessaloniki, Greece), Seraphim Kotoulas, Emilia Stefanidou, Ioanna Grigoriou, Ioanna Tsiouprou, Paraskevi Argyropoulou

Exploring the psychological impact of the COVID-19 pandemic on adults with asthma: A quantitative study
Kirstie McClatchey (Edinburgh, United Kingdom), Tracy Jackson, Emma Kinley, Amy Chan, Noelle Morgan, Jessica Rees, Hilary Pinnock

Exploring the psychological impact of the COVID-19 pandemic on adults with asthma: a qualitative study
Tracy Jackson (Edinburgh (Edinburgh), United Kingdom), Kirstie Mcclatchey, Amy Chan, Noelle Morgan, Hilary Pinnock

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

Anxiety and Depression Levels of Healthcare Workers During COVID-19 Pandemic
Muzaffer Onur Turan (Izmir, Turkey), Nilgün Yılmaz Demirci, Güntülü Ak, Süle Akçay, Ulku Aka Akturk, Semra Bilâçeroğlu, Funda Coşkun, Özdemir, Nazan Şen, Ülkü Yılmaz

Hyperventilation as a possible explanation for exercise intolerance in young athletes after mild COVID-19
Oxana Fesenko (Moscow, Russian Federation)

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)

Chronic NIV in COPD: an exploration of pooled individual patient data
Tim Raveling (Groningen, Netherlands), Judith Vonk, Marieke Duiverman, Peter Wijkstra

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

Rescue2-Monitor (R2M) study: an overview of screened patients.
Léo Grassion (Bordeaux, France), Sandrine Jaffre, Marjolaine Georges, Sandrine Pontier, Julien Soler, Patricia Peñacoba, Jean Michel Arnaud, Christel Raymond, Arnaud Prigent, Maria Alexandra Mineiro, Wojciech Trzezpiur, Bebiana Conde, Claudia Rabec, Joao Winck, Pedro Antonio, Jesus Gonzalez-Bermejo

Who are the chronic pulmonary obstructive disease patients highly compliant to home mechanical ventilation?
Luis Lázaro Ferreira (Vila Nova de Gaia, Portugal), Nicole Fernandes, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

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

Defining successful NIV setup: data from a real-life cohort
Grégoire Jolly (Rouen, France), Emeline Fresnel, Christian Caillard, Zouhair Gharsallaoui, Antoine Cuvelier, Maxime Patout
Is there a pattern of compliance to home mechanical ventilation depending on disease? Luis Lázaro Ferreira (Vila Nova de Gaia, Portugal), Nicole Fernandes, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

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, Estefania Mira Padilla, Cristina Muñoz Corroto, Pablo García Lovera, Natalia Pascual Martínez

Venous thromboembolic (VTE) in patients with ALS: an incidence study Estefania Mira Padilla (Córdoba, Spain), Maria Melgar Herrero, Cristina Gomez Rebollo, Pablo Garcia 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**

**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 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

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

**Tag(s):** COVID

**Chairs:** Frédéric Lador (Genève 14, Switzerland), Pilar Escribano-Subias (Madrid, Spain)
| PA3587 | Controversies over the impact of the COVID-19 pandemic on patients with Pulmonary Arterial Hypertension | Nicoleta Sorina Bertici (Timisoara (Timis), Romania), Larisa Dobrescu, Luadmla Pislaru, Ioisif 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 |
| PA3591 | Sildenafil for treatment of associated pulmonary hypertension in patients with severe COVID-19 pneumonia. | 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 | Aleksandar Bokan (Loewenstein, Germany), Gerd Staehler, 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 Saxer (Zürich, Switzerland), Paula Appenzeller, Mona Lichtblau, Charlotte Berlier, John-David Aubert, Andrea Azzola, Jean-Marc Fellrath, Thomas Geiser, Frederic Lador, Susanne Pohle, Isabelle Opitz, Markus Schwerzmann, Hans Stricker, Michael Tamm, 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 Parihar, Akshayaya Pradhan, Riddhi Jaiswal |
| PA3598 | The effect of lung diseases on pulmonary hypertension and the effect of pulmonary hypertension on the lung | Ismail Güzelkak (Ankara, Turkey), Beste Özeres, Dilber Ademhan Tural, Bircel Sunman, Halime Nayir Büyüksahin, Ebru Aypar, Tefik Karagöz, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper |
| PA3599 | Whipple's disease: a rare and life-threatening cause of pulmonary hypertension | Etienne-Marie Jutant (Paris, France), Anne Roche, Athénais Boucly, Alice Camboulive, Mitja Jevnikar, Xavier Jais, Olivier Sitbon, Marc Humbert, Laurent Savale, David Montani |
| PA3600 | 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 Sugiuira, Ayako Shigeta, Seiichiro Sakao, Koichiro Tatsumi |
| PA3601 | 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 |
| PA3602 | Risk assessment in Pulmonary Arterial Hypertension (PAH) based on the Simplified French Model: A single centre experience | Umair Falak (Darlington (Co Durham), United Kingdom), Kishor Lekhak, Muhammad Waseem Athar, Rachel Crackett, James Lordan, Guy Macgowan, Andrew Fisher, Arun Nair |
| PA3603 | Abnormal right ventricular to pulmonary artery coupling in sickle cell disease | Tatiana Ballez (Bruxelles, Belgium), Flore Samantha Benghiat, Céline Dewachter, Ana Roussoulières, Jean-Luc Vachiéry |
Impact of cyanosis on ventilatory kinetics during stairclimbing in pulmonary arterial hypertension
Chinthaka Samaranayake (London, United Kingdom), Yingmei Luo, Karina Siewers, Christopher Warren, Stuart Craig, Carl Harries, Laura Price, Aleksander Kempny, Michael Gatzoulis, Konstantinos Dimopoulos, Nicholas Hopkinson, S John Wort, James Hull, Colm McCabe

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

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 Sibton, - 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 Physiology 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 Yatsyzhyn

PA3608 Submicroscopic changes of of hemomicrocirculatory bed of the lungs in long term experimental streptozotocin-induced diabetes mellitus
Yuliya Fedorchenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaiats

PA3609 LSC - 2021 - Submicroscopic changes of type I alveolocytes in the early stages of experimental diabetes mellitus
Yuliya Fedorchenko (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
Álmos 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 Kiryukhina (St. Petersburg, Russian Federation), Marina Dyakova, Nataliia Serebryanaya, Dilyara Esmedlyaeva, Piotr Yablonskii

PA3612 Smoking induces activation of the complement system in the small airways in a sex-specific manner
Spela Kokelj (Göteborg, Sweden), Jörgen Östling, Karina Fromell, Kristina Nilsson Ekdahl, Henrik C. Olsson, Anna-Carin Olin

PA3613 Pro-fibrotic phenotype of human Hermansky-Pudlak syndrome lung fibroblasts
Bernadette Gochuco (Bethesda, United States of America), Jennifer Wang, Lily Smith, Jasmina Abdalla, Meixing Zuo, Tesiya Franklin, Shachar Abudi, Resat Cinar, May Malicdan, 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 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), Yuqin Wang (yuqin.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), Christoph Mayr(christoph.mayr@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)
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<td>Maria Eduarda Moreira Lino, Leandro Norberto Da Silva Junior, Rodolfo De Paula Vieira</td>
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<td>The filamentous Pseudomonas phage Pf disrupts airway basal cell proliferation</td>
<td>Elizabeth Burgener (Palo Alto, United States of America), Laura Rojas Hernandez, Paul Bollyky, Carlos Milla</td>
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<td>Lipopolysaccharide (LPS) treatment enhances the regenerative capacity of mesenchymal stromal</td>
<td>Aina Areny Balagué (Sabadell, Spain), Marta Camprubi Rimblas, Raquel Guillamat Prats, Lluís Blanch, Anna Roig,</td>
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<td>Verónica Pulitó-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Belén Atienza-Mateo, Víctor M.</td>
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<td>LSC - 2021 - Club cell functions as a Wnt-responsive progenitor for tissue repair in COPD</td>
<td>Yan Hu (Aurora, United States of America), Chiara Ciminieri (<a href="mailto:c.ciminieri@rug.nl">c.ciminieri@rug.nl</a> / Department of Molecular Pharmacology, Groningen Research Institute for Asthma and COPD (GRIAC), University of Groningen, Groningen), Christopher Evans (<a href="mailto:christopher.evans@cuanschutz.edu">christopher.evans@cuanschutz.edu</a> / Division of Pulmonary Sciences and Critical Care Medicine, School of Medicine, University of Colorado, Aurora), Melanie Koenigshoff (<a href="mailto:koenigshoffM@upmc.edu">koenigshoffM@upmc.edu</a> / Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh)</td>
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<td>PA3623</td>
<td>Aberrant endothelial CXCL signaling in COPD</td>
<td>Neerhika Kothapalli (Overland Park, United States of America), John E. Mcdonough, Micha Sam Brickman Raredon,</td>
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<td>PA3624</td>
<td>LSC - 2021 - Investigating the role of vitamin A intake and retinoic acid signalling in lung homeostasis and repair - A multidisciplinary approach</td>
<td>Rosoin Mongey (London, United Kingdom), Sally Yunsun Kim (<a href="mailto:sally.kim@imperial.ac.uk">sally.kim@imperial.ac.uk</a> / Imperial College London, London), Diana Van Der Piaat (<a href="mailto:d.van-der-piaat@imperial.ac.uk">d.van-der-piaat@imperial.ac.uk</a> / Imperial College London, London), Cosetta Minelli (<a href="mailto:cosetta.minelli1@imperial.ac.uk">cosetta.minelli1@imperial.ac.uk</a> / Imperial College London, London), Charlotte Dean (<a href="mailto:c.dean@imperial.ac.uk">c.dean@imperial.ac.uk</a> / Imperial College London, London), Matthew Hind (<a href="mailto:m.hind@rbht.nhs.uk">m.hind@rbht.nhs.uk</a> / Imperial College London, London)</td>
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<tr>
<td>PA3625</td>
<td>Association between alpha1 antitrypsin (AAT) circulating polymers (CP) and lung and liver disease in patients with AAT deficiency (AATD)</td>
<td>Alexa Nuñez (Barcelona, Spain), Irene Belmonte, Elena Miranda, Eduardo Loeb, Miriam Barrecheguren, Georgina Farago, Esther Rodriguez, Francisco Rodriguez-Frias, Marc Miravitlles, Cristina Esquinas</td>
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### 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

Need for patient’s education: asthmatics perception of asthma as a lung disease
Daniela Cavalet Blanco (Porto Alegre (RS), Brazil), Luciana Silva, Raquel Ribeiro, Ana Paula Tubiana, Eduarda Jaeger, Carolina Aranchipe, Laura Fillmann, Jamile Vieira

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.
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

Can AI help in detecting respiratory diseases with incomplete lung function data?
Nilakash Das (Leuven, Belgium), Armin Halilovic, Julie Maes, Kevin Ray, Marko Topalovic

Comparative predictive assessment of lung health status in young people
Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Egor Dmitrievich Mokin

Patient’s views on a computer decision support for diagnosing asthma: a qualitative study.
Victoria Murray (Edinburgh, United Kingdom), Eddie Donaghy, Hilary Pinnock, Luke Daines

Clinicians views on developing an asthma CDSS for primary care
Eddie Donaghy (Edinburgh, United Kingdom), Victoria Murray, Hilary Pinnock, Luke Daines

Systematic review of clinical decision support systems for breathlessness in outpatient settings
Anthony Paulo Sunjaya (Sydney, Australia), Sameera Ansari, Christine Jenkins

Overdiagnosis of COPD and asthma among elderly with chronic dyspnea
Deniz Dogan Mülazimoglu (Ankara, Turkey), Oya Kayacan

The impact of pulmonary tuberculosis on the quality of life of Colombian patients and their families. A case-control study
Vicente Benavides Córdoba (Cali, Colombia), David Garces, Mariana Cañon, Yurany Benavides, Marcela Beltran, Jhonatan Betancourt-Peña

Exploration of the feasibility to combine patients with COPD and chronic heart failure in self management groups with focus on exercise self-efficacy.
Maiakie Giezeman (Karlstad, Sweden), Mikael Hasselgren, Josefim Sundh, Ann-Britt Zakrisson, Kersti Theander

ACCURACY OF COPD SCREENING STRATEGIES AMONG HYPERTENSIVE PATIENTS IN BRAZIL: A BREATHE WELL STUDY
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

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
Santosh Baniya (Kathmandu, Nepal)

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.
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan, J. François Vellin, François Rubin, Asma Omarjee

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
Jyoti Bajpai (Lucknow (Uttar Pradesh), India), Surya Kant, Akshyaya Pradhan, Ajay Verma, Darshan Bajaj

Cardiac Cormorbidities in COPD Patients : A Cross Sectional Study
UTKARSH KHATTRI (Meerut, India), Lalit Singh, Rajeev Tandon, Geeta Karki, Nida Choudhry
PA3644 Association of combined anxiety and depression with quality of life, dyspnea, exercise tolerance in COPD patients
Abebaw Mengistu Yohannes (Azusa, United States of America), Richard Casaburi, Sheila Dryden, Nicola Alexander Hanania

PA3645 Systematic quality assessment of patient education materials and decision aids for breathlessness
Anthony Paulo Sunjaya (Sydney, Australia), Lexia Bao, Allison Martin, Christine Jenkins

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)

PA3646 Correlation between chest CT severity scores and clinical and biochemical parameters of COVID-19 pneumonia.
Berna Kömürcüoğlu (Izmir, Turkey), Batum Ozgur, Salik Bilge, Susam Seher, Karadeniz Gulistan

PA3647 Liver dysfunction on admission worsen clinical manifestations and outcomes of Coronavirus Disease 2019
Fang-Ying Lu (Shanghai, China), Rong Chen, Kandi Xu, Jie Huang, Dexiong Yang, Tao Bai, Yun Feng, Yi Guo

PA3648 Relationship between chest CT findings and clinical conditions of COVID-19: A multicentre experience

PA3649 Association between age, deprivation and ethnicity with COVID-19 hospitalisation and mortality
Danyal Jajbhay (London, United Kingdom), Yee Ean Ong, Jessica Gates, Martina Cusinato, Emma Lombard, James May, Adrian Draper

PA3650 COVID-19 pneumonia and clinical follow-up: results of a prospective cohort
Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), Sabrina Resnik, Florencia Santtia, Laura Barria, Federico Felder, Mariano Sosi, Facundo Nogueira, Laura Mirey, Anu Engelmayer, Ana Putruele, Carlos Luna

PA3651 Predictors of worse prognosis in young adults hospitalized with COVID-19 pneumonia: a multi-center Italian study (COVID-UNDER50)
Martina Bonifazi (Ancona (AN), Italy), Federico Mei, Edlira Skrami, Flavia Carle, Stefano Gasparini, Lina Zuccatosta, Alessandro Di Marco Berardino, Donatella Amico, Elisabetta Balescio, Francesco Bini, Piero Candoli, Antonella Caminati, Sergio Harari, Giampietro Marchetti, Guido Levi, Sara Piciucchi, Venerino Poletti, Claudia Ravaglia, Sara Lococo, Marina Saetta, Sara Tomsotteli, Mario Tamburrini, Umberto Zuccon, Alessandro Zanforlin, Vincenzo Menditto

PA3652 Predictive factors of response to systemic corticosteroids in patients hospitalized with COVID-19 pneumoniae
Iria Veiga Teijeiro (Lugo (Galicia), Spain), Indhira Guzmán Peralta, Diego Pérez Ortiz, Luis Pérez De Llano, Irene Martín Robles, Nagore Blanco Cid, David Dacal Rivas, Rafael Golpe Gómez

PA3653 Association between type of antihyperglycemic therapy and COVID-19 outcomes in patients with type 2 DM
Michael Brovko (Moscow, Russian Federation), Larisa Akulkina, Anastasia Schepalina, Victoria Sholomova, Sergey Moiseev, Alisa Yanakaewa, Denis Konovalov

PA3654 Severity, risk of progression or thrombosis – what does the D-dimer really reflect in COVID-19 pneumonia?
Maria Krykhitina (Dniepropetrovsk, Ukraine), Kseniia Bielosludtseva, Tetyana Pertseva, Lyudmila Konopkina

PA3655 Study of likelihood of infection with Covid-19 among hospital staff.
Jayalakshmi T.Kutty (Mumbai (Maharashtra), India), Bhumi Madhav, C G Prakash, Dipti Dhanwante, Narendra Patil, Dhanaji Revande

PA3656 Severity or risk of progression: what does serum ferritin really reflect in COVID-19 pneumonia?
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Olena Myronenko, Lyudmila Konopkina, Tetyana Pertseva, Oksana Plekhanova, Maria Krykhitina
Input of comorbidities to hospitalization of patients with COVID-19. 
Irina Lizinfeld (Moscow, Russian Federation), Natalia Pshenichnaya, Lyubov Parolina, Grigorii Zhuravlev

Evaluation of the relationship between laboratory parameters and pulmonary function tests in COVID-19 patients
Buğra Kerget (Erzurum, Turkey), Alperen Aksakal, Ferhan Kerget

Early profiling of low-risk SARS-CoV-2 pneumonia for ward allocation
Raúl Méndez (Valencia, Spain), Paula González-Jiménez, Ana Latorre, Leyre Serrano, Luis Alberto Ruiz, Rafael Zalacaín, Pedro Pablo España, Ane Uranga, Catia Cillóniz, Antonio Torres, Rosario Menéndez

Incidence and risk factors for structural lung disease following SARS-CoV-2 infection
Maximilian Gysan (Wien, Austria), Antje Lehmann, Dominik Bemstzky, 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), Fatnanur Kazankaya, Melih Buyuksiirin, Mine Gayaf, Filiz Guldavat, Fatma Demirci Ucshal, Ceyda Anar, Gülru Polat, Özgür Batam, Aysu Ayrancı, Enver Yalız

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 Oppedissano, 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 Civilette, Lisa Giuliani, Roberta Biza, Chiara Allegri, Marisa Anelli, Roberta Trapasso, Mariangela Amoroso, Lucia Gandini, Sofo Comandini, Caterina Conti, Claudia Maria Sanfilippo, Gianluca Imeri, Gianmariiano Marchesi, Ferdinando Luca Lorini, Fabiano Di Marco

preditive factors of severe outcome in patients with covid-19 pneumonia
Donia Belkhir (Tunis, Tunisia), Mariem Maalej, Hana Blibech, Houda Snene, Aymen Jbali, Israa Wadhane, Line Kaabi, Ahmed Lauter, Nadia Mehill, Nozha Ben Salah, Bechir Louzir

Carolina Andrea Urbina Carrera (Valladolid, Spain), Raúl López-Izquierdo, Tomás Ruiz Albi, Jesús Francisco Bermejo-Martin, Raquel Almansa, Fátima Villaña Sanz, Lucia Arroyo Olmedo, Susana Sánchez Ramón, Francisco Martín-Rodriguez, Fernando Moreno Torrro, Daniel Alvarez, Félix Del Campo Matia

Role of ivermectin in hospitalized patients with mild to moderate COVID-19.
Syed Muhammad Zubair (karachi, Pakistan), Aqusa 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, Ayagama Vanchikova, Boris Kuznik

Azithromycin and Hydroxychloroquine in hospitalized patients with confirmed SARS-CoV-2 infection - a randomized placebo-controlled trial (ProPAC-COVID Trial)
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)

PA3685 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
Shyreen 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, Milena 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-?B pathway in three-dimensional lung epithelial cells
Ellen Goeteyn (Sint-Amandsberg, Belgium), Charlotte Rigauts, Lucia Grassi, Gina Van Damme, Eva Van Braeckel, Tom Coenye, 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 Aik, Anne-Christin Hauschild, Thomas Damm, Assel Suleimenova, Ainash Oshibayeva, Zhanna Kalmatayeva, Claus Vogelmeier, Larry Lands

PA3694 Image analysis of tissue macrophages to confirm differential phagocytosis between groups by microscopy and automated bacterial quantification
Riccardo Wysockanski (Cambridge, United Kingdom), Jonathan Baker, Peter Fenwick, Chris Dunsby, 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 (ainamartin89@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; Fomers Veterinary Medicine And Innovation SLF,Palma)

PA3696 Differential effects of Nintedanib and SB525334 in primary human cell-based assays of lung fibrosis
Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Martina Bonatti, Britt Sotthewes, Jeroen Degroot, Gino Villetti, Maurizio Civelli, Marcello Trevisani, Maria Gloria Pitelli

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 Romnow, Morten Karsdal, Anne-Christine Bay-Jensen, Diana Julie Leeming, Jannie Marie Bülow Sand
**Session 403**

**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)

**PA3705**

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 Anderson, Aruna T Bansal, Elisabeth H Bel, Malin Fagerås, Rod Hughes, Hiromasa Inoue, Glenda Lassi, José Maria Olaguibel, Alberto Papi, Marcelo Rabahi, Helen K Reddel, Adrian Rendon, Maarten Van Den Berge, Hana Müllerová

**PA3706**

Importance of type and degree of IgE sensitisation for defining fractional exhaled nitric oxide reference values

Suneela Zaiqham (Malmö, Sweden), Xingwu Zhou, Magnus Molin, Anders Sjölander, Robert Movéare, Christer Janson, Andrei Malinovschi

**PA3707**

Eosinophilic inflammation and muscle mass in chronic airway disease

Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Tim Van Zutphen, Huib Kerstjens, Anneke Ten Brinke

**PA3708**

Phenotyping asthmatic patients by cluster analysis in a real-world setting

Francesca Bertolini (Ombassano, Italy), Giorgio Ciprandi, Fabio Gallo, Elisa Riccardi, Vitina Carriero, Fabio Luigi Massimo Ricciardolo

**PA3709**

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

**PA3710**

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 Barratt, Maria Luisa De Candia, Giovanna Elisiana Carpagnano
PA3711  
Features of FeNO-high asthma phenotype  
Francesca Bertolini (Orbassano, Italy), Andrea Elio Sprio, Elisa Riccardi, Andrea Baroso, Vitina Carriero, Fabio Luigi Massimo Ricciardolo

PA3712  
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

PA3713  
High prevalence of mild asthma among asthmatics visiting emergency department (ED)  

PA3714  
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

PA3715  
Acute exacerbation phenotypes of asthma and COPD: impact on clinical outcomes  
Muzhda Ghanizada (Copenhagen, Denmark), Ajmal Jabarkhil, Susanne Hansen, Nanna Dyhre-Petersen, Christian Woehlk, Marianne Bastrup Søndergaard, Therese Lapperre, Celeste Porsbjerg

PA3716  
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

PA3717  
Burden of asthma by treatment step in the French CONSTANCES general population cohort  
Nicolas Roche (Paris, France), Rachel Nadif, Caroline Fabry-Vendrand, Laura Pillot, Gabriel Thabut, Clément Teissier, Stéphane Bouée, Marie Zins, Marcel Goldberg

PA3718  
Asthma management - opinion of family doctors and patient’s view  
Anna V Demchuk (Vinnytsia, Ukraine), Yuriy M Mostovoy, Tetyana V Konstantynovych

PA3719  
A pictorial asthma action plan to improve asthma control in Malaysian adults  
Sharif-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, Azainorsuzila Mohd Ahad, Bee Kiau Ho, Salsbiah Mohamed Isa, Richard Parker, Andrew Stoddart, Yong Kek Pang, Karuthan Chinna, Ee Ming Kho

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 Weitoft

PA3721  
LSC - 2021 - Effects of mild to moderate asthma in pregnancy on the wellbeing of mother and newborn; A case control study from Sri Lanka.  
Duminda Yasaratne (Kandy, Sri Lanka), Thushani Anuththara (tanuththara@gmail.com / University of Peradeniya,Kandy), Gihan Jayalath (gihan.jayalath2@gmail.com / University of Peradeniya,Kandy), Farook Rafsanjani (f.jani.rafsan@gmail.com / University of Peradeniya,Kandy), Sajith Priyankara (tmspriyankara@gmail.com / National Institute of Fundamental Studies,Kandy), Gayan Bgowatte (gbgowatte@gmail.com / University of Peradeniya,Kandy), Chathura Rathnayake (chathura.ratnayake@gmail.com / University of Peradeniya,Kandy), Samath Dharmaratne (samath.dharmaratne@nblbs.md / University of Peradeniya,Kandy), Shyamali Dharmage (s.dharmage@unimelb.edu.au / University of Melbourne,Melbourne)

PA3722  
Late Breaking Abstract - Small airways dysfunction predicts asthma control and exacerbations: Longitudinal Data from ATLANTIS Study  
Monica Kraft (Tucson, United States of America), Matthew Richardson, Brian Hallmark, Dean Billheimer, Marteen Van Den Berge, Leonardo Fabbri, Thys Van Der Molen, Gabriele Nicolini, Alberto Papi, Klaus F Rabe, Dave Singh, Chris Brightling, Salman Siddiqui

PA3723  
Late Breaking Abstract - Adrenal function improvement after oral corticosteroid reduction in benralizumab-treated severe eosinophilic asthma: PONENTE maintenance phase  
Mark Gurnell (Cambridge, United Kingdom), Mark Gurnell, Liam G. Heaney, Andrew Menzies-Gow, Jonathan Corren, Elisabeth H. Bel, Jorge Maspéro, Timothy Harrison, David J. Jackson, David Price, Njira Lugogo, Annie Burden, Alex De Giorgio-Miller, Kelly Padilla, Ubaldo J. Martin, Esther Garcia Gil, James Kreindler

PA3724  
Late Breaking Abstract - The SF-36 quality of life scales are sensitive measures of lung function decline  
Jorunn Kirkeleit (Bergen, Norway), Trond Riise, Debbie Jarvis, Francisco Gomez Real, Christer Janson, Benedicte Leynaert*, Cecilia Svanes*

Pre-congress content  
Session 404  
13:15 - 14:15  
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)

PA3725 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

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 Cábrita, 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 Škrgat (Golnik, Slovenia), Maruša Kopač, Matija Rajvec, Uška Bidovec Stojković, Izidor Kern, Romana Pantur, Peter Korošec

PA3731 Omalizumab exposure patterns in real-life: An 11-year French population-based study of 19,203 patients with severe asthma.
Marc Humbert (Le Kremlin-Bicêtre, France), Arnaud Bourdin, Antoine Deschildre, Mathieu Molimard, Camille Taille, Driss Kamar, Céline Thommèler, Audrey Lajoie, 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 Quírc, Nadia Daizadeh, Nami Pandit-Abid, 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 Garcia 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 Merelo, Celia Pinedo

PA3737 Severe asthma outcomes over two years of therapy with mepolizumab
Lynn Elsey (Hale, United Kingdom), Thomas Pantin, Leanne J Holmes, Gael Tavernier, Stephen J Fowler

PA3738 Omalizumab in severe allergic asthma associated with COPD: a multicentric cohort study
Sophie Pereira (Croz, France), Nathalie Bautin, Juliette Verhille, Philippe Bonniaud, Gilles Devouassoux, Stephanie Fry, Laurent Guilleninault, Naji Khayath, Christophe Leroyer, Cecile Chenivesse, Nathalie Bautin
Impact of biologic therapy in severe asthma with nasal polyps

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 Felongco, Aref Kyyaly, Matthew Harvey, Paddy Dennison, Hongmei Zhang, Peter Howarth, Syed Hasan Arshad, Ramesh Kurukularatnachy

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 biologics 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 M Rasmussen, Celeste Borsbjerg

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 Beghé, 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)

Clusters of comorbidities in unclassifiable interstitial lung disease
Thomas Skovhus Prior (Egå, Denmark), Charlotte Hylgaard, Sebastiano Emanuele Torrisi, Sissel Kronborg-White, Claudia Ganter, Michael Kreuter, Elisabeth Bendstrup

IPF cluster analysis highlights diagnostic delay and cardiovascular comorbidities association with outcome
Jaume Bordas-Martinez (Barcelona, Spain), Ricard Gavaldà, Jessica Shull, Vanesa Vicens-Zygmont, Lurdes Planas-Cerezales, Guadalupe Bermudo-Peloche, Salud Santos, Neus Salord, Carmen Monasterio, Guillermo Suarez-Cuartin, Maria Molina-Molina

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

All-cause mortality in an Idiopathic Pulmonary Fibrosis (IPF) cohort: retrospective analysis with cardiac QRISK-2
Matthew Watson (Cambridge, United Kingdom), Thomas McCellan, Muhunthan Thillai

Do worse scores on patient-reported outcomes predict the progression of interstitial lung disease (ILD)?
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Paolo Spagnolo, Martin Kolb, Michael Kreuter, Hillario Nunes, Wirke Stansen, Klaus Rohr, Giichi Inoue

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

Validation of the SGRQ-I derived from SGRQ
Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Saher Burhan Shaker, Jesper Romhild Davidsen, Ole Hilberg, Haridarshan Patel, Elisabeth Bendstrup

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

PFBO 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
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

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 Oggiorni, Emanuela Barisione, Paolo Ceruti, Chiara Papetti, Angelo De Laurentis, Antonella Caminati, Angela Valentino, Stefano Centanni, Donatella Noë, Matteo Della Zoppa, Silvia Crotti, Marco Grosso, Samir Giuseppe Sukkar, Denise Modina, Marco Andreoli, Roberta Niccoli, Giulia Suigo, Federica De Giacomi, Lorenzo Giovanni Mantovanni, Alberto Pesci, Fabrizio Luppi

Association between Pulmonary Infections and the Prognosis in Patients with Idiopathic Pulmonary Fibrosis
Masuda Norestani (Farum, Denmark)

Unclassifiable Interstitial Lung Disease (ILD), Why?
Elizabeth De Freitas Gonzalez (León, Spain), Carmen López Garay, Cristina Menéndez Sánchez, Carlos Mier Bango, Pablo Franco Suárez, Laura Sierra Herranz, Elena Bollo De Miguel, Javier Juan García, Nieves Alonso Orcajo, Juan Ignacio López Fernández, Silvia Fernández Huerga

Economic impact of IPF exacerbations in Spain: prospective, observational, multicentric study (OASIS study)
Alba Ramon (B, Spain), Esteban Cano-Jiménez, Maria Jesus Rodriguez-Nieto, Ana Dolores Romero Ortiz, Ana Villar, Silvia Armengol, Anna Julià, Marta Morros

Epidemiology of Idiopathic Pulmonary Fibrosis in Australia
Ingrid A. Cox (Bellerive (TAS), Australia), Petr Otahal, Barbara De Graaff, Tamera Corte, E. Haydn Walters, Andrew J. Palmer

Frequency of observed interstitial lung disease in a secondary care hospital in the North West of England.
Shan Liung Liew (Leeds (England), United Kingdom), Coral Hayton, Zoe Borrill, Hou Law, Georges Ng Man Kwong

Association between severity of Idiopathic Pulmonary Fibrosis and air Pollution levels in Madrid
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Ester Zamarroñ De Lucas, Carlos Carpio Segura, María Hidalgo Sánchez, Gema Bonilla Hernán, María Isabel Torres Sánchez, Maria Fernández-Velilla Peña, Prudencio Díaz-Agero Álvarez, Elena Villamañán Bueno, Rita Regojo Zapata, Concepción Prados Sánchez, Rodolfo Álvarez-Sala Walther

Association between mortality of Idiopathic Pulmonary Fibrosis and air Pollution levels in Madrid
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Carlos Carpio Segura, Ester Zamarroñ De Lucas, María Hidalgo Sánchez, Gema Bonilla Hernán, María Isabel Torres Sánchez, Maria Fernández-Velilla Peña, Prudencio Díaz-Agero Álvarez, Elena Villamañán Bueno, Rita Regojo Zapata, Concepción Prados Sánchez, Rodolfo Álvarez-Sala Walther

Real-world antifibrotic treatment persistence and clinical outcomes for patients with idiopathic pulmonary fibrosis
Ying Qiu (Princeton, United States of America), Julia Zhu, Brandon Elpers, Jenny Jiang, Adesuwa Ogboho, Rajesh Mallampati, Clare Byrne, Jackson Tang, Aryeh Fischer

Effect of sildenafil add-on to antifibrotic treatment in IPF patients
Jieun Kang (Seoul, Republic of Korea), Jin Woo Song

Pre-congress content Session 406 13:15 - 14:15
E-poster: COVID19, acute respiratory failure 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): Respiratory critical care

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

Tag(s): COVID

Chairs: Ignacio Martin-Loeches (Dublin, Ireland), Zhonghua Shi (Amsterdam, Netherlands)

Association of plasma level of Mixed lineage kinase domain-like protein with severity and outcome of sepsis
Hongseok Yoo (Seoul, Republic of Korea), Jin Young Lee, Junseon Park, Kyeongman Jeon

MMP2 probe based on in vivo imaging technique for tracking ALI/ARDS in mice
Nuha Alekhmimi (Riyadh, Saudi Arabia), Jurgen Popp, Mohammed Zourob

Evaluation of the relationship between KIM-1 and suPAR level in COVID-19 patients and a different perspective on suPAR
Buğra Kerget (Erzurum, Turkey), Ferhan Kerget, Alperen Aksakal, Seda Aşıkın, Elif Yılmazel Uçar, Leyla Sağlam
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<td>PA3767</td>
<td>Epidemiological profile and clinical outcomes of patients hospitalized for COVID-19 in a medium complexity Brazilian hospital</td>
<td>Agostinho Hermes Medeiros De Neto (João Pessoa (PB), Brazil), Mariana Pereira Morais, Luiz Felipe Diniz Cavalcanti, Mustapha Muhammed Kane, Maria Beatriz Oliveira Sarmento, Lucas W. N Farias Barro, Cristianne Silva Alexandre</td>
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<td>PA3768</td>
<td>The efficacy of convalescent plasma therapy in severe COVID-19 patients: a systematic review</td>
<td>Swathi Muddasani (South Miami, United States of America), Zar Kotlarsic, Kuchalambal Agadi, Michelle Jeu, Amanda Chavarria, Omoeyeme Edaki, Marcos Sanchez-Gonzalez</td>
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<td>PA3769</td>
<td>Economic burden associated with clinical management of COVID-19 – A literature review</td>
<td>Ember Lu (Philadelphia, United States of America), Eileen Han, Anne E Heyes, Josephine Mauskopf, Marguerite G Bracher, Helen J Birch</td>
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<td>PA3770</td>
<td>LSC - 2021 - Can Hematological Ratios Predict Outcome of COVID-19 Patients? Egyptian Multicentric Study.</td>
<td>Mai M. Aly (Assiut, Egypt), Taghreed S. Meshref (<a href="mailto:Taghreed.meshref@aun.edu.eg">Taghreed.meshref@aun.edu.eg</a> / Critical Care unit, Department of Internal Medicine, Faculty of Medicine, Assiut University,Assiut), Marwa A. Abdelhameid (<a href="mailto:Marwa.ahmed@aswu.edu">Marwa.ahmed@aswu.edu</a> / Department of Internal Medicine, Faculty of Medicine, ,Aswan), Shima A. Ahmed (<a href="mailto:shimaahematology1617@gmail.com">shimaahematology1617@gmail.com</a> / Department of Internal Medicine, Faculty of Medicine, ,Qena), Asmaa S Shaltout (<a href="mailto:AsmaaShaltout@aun.edu.eu">AsmaaShaltout@aun.edu.eu</a> / Department of Bacteriology and Immunology,Assiut), Alaa Eldin Abdel-Moniem (<a href="mailto:alaaelsoniem@yahoo.com">alaaelsoniem@yahoo.com</a> / Critical Care unit, Department of Internal Medicine, Faculty of Medicine, Assiut University,Asiut), Dina Â Hamad (<a href="mailto:dinaalihamad@aun.edu.eu">dinaalihamad@aun.edu.eu</a> / Critical Care unit, Department of Internal Medicine, Faculty of Medicine, Assiut University,Assiut)</td>
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<td>PA3771</td>
<td>Health care professionals’ perceptions regarding the challenges of mechanical ventilation in the context of the COVID-19 pandemic</td>
<td>Lumnie Sabanai Shintaku (Brasilia, Brazil), Fábio Ferreira Amorim, Fábio Henrique Monteiro Oliveira, Carlos Humberto Llanos, Guillermo Alvarez Bestard, Sérgio Henrique Evangelista, Rodrigo Rocha, Julia De Sá Kanbay, Alessandra Maia Freire, Licia Zanol Lorenzini Stanzani, Fernando Vegas Do Monte, Sanderson Cesar Macedo Barbalho</td>
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<td>PA3772</td>
<td>Clinical experience with high-flow nasal cannula for COVID-19 patients in Japan.</td>
<td>Takashi Katsuno (Tokyo, Japan), Manabu Suzuki, Masayuki Hojo, Jin Takasaki, Haruhito Sugiyama</td>
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<td>PA3773</td>
<td>Prolonged mechanical ventilation patients receiving Acupuncture treatment for improving the respiratory status</td>
<td>Chang Yujen (Taichung City, Taiwan), Chen Jiaming, Huang Sungyen</td>
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<td>PA3774</td>
<td>Diaphragm function in patients with sepsis and septic shock. A longitudinal ultrasound study</td>
<td>Aymeric Le Neindre (Férolles-Attilly, France), Johan Wormser, Marta Luperto, Cédric Bruel, Benoit Misset, Belaid Bouhemad, Francois Philippart</td>
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<td>PA3775</td>
<td>Early changes in ARDS severity in COVID-19 patients</td>
<td>Michiel Schuitt (Amsterdam, Netherlands), Marcus Schultz, Frederique Paulus, Ary Serpa Neto</td>
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<td>PA3776</td>
<td>POST-COVID-19 LUNG FIBROSIS: STUDY OF 600 CASES IN TERTIARY CARE SETTING IN INDIA</td>
<td>Shital Vishnu Patil (Latur (Maharashtra), India), Gajanan Gondhali, Rajesh Patil</td>
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<td>PA3777</td>
<td>EFFECT OF HYPERGLYCEMIA ON POST-COVID-19 LUNG FIBROSIS: STUDY OF 600 CASES IN TERTIARY CARE SETTING IN INDIA</td>
<td>Shital Vishnu Patil (Latur (Maharashtra), India), Rajesh Patil, Gajanan Gondhali</td>
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<td>PA3778</td>
<td>Revising risk stratification in mechanically ventilated ICU patients: the longitudinal European BioVent study</td>
<td>Lucas Boeck (Riehen, Switzerland), Hans Pargger, Peter Schellongowski, Charles-Edouard Luyt, Marco Maggiorini, Kathleen Jahn, Jean Chastre, Rene Lötischer, Evelyne Bucher, Nadine Cueni, Martin Siegemund, Thomas Staudinger, Michael Tamm, Daiana Stolz</td>
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<td>PA3779</td>
<td>Hyperoxia on admission and mortality in patients with sepsis.</td>
<td>Lunnie Sabanai Shintaku (Brasilia, Brazil), Licia Zanol Lorenzini Stanzani, Lumie Shintaku, Daniella Oliveira, Pedro Argote, Rosalia Santana, Clarissa Araujo, Pedro Martins, Lara Mendes, Marcelo Maia, Carlos Silveira, Fabio Amorim</td>
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<td>PA3780</td>
<td>Late Breaking Abstract - Associations of intensity of ventilation with mortality in COVID–19 patients with ARDS</td>
<td>Michiel Schuitt (Amsterdam, Netherlands), David Van Meenen, Ignacio Martin–loeches, Guido Mazzinari, Marcus Schultz, Frederique Paulus, Ary Serpa Neto</td>
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<td>PA3781</td>
<td>Late Breaking Abstract - The mortality predicting factors at admission and during hospitalisation of patients with SARS COV2</td>
<td>Eritjan Tashi (Fier, Albania), Perlat Kapiszyi, Eugerta Dilka, Sofiela Telo, Alma Teferici, Esmeralda Nushi, Kloedina Bratja, Armela Cuko, Valentina Hima, Luljeta Hoxha, Serxho Golgota, Emira Osja, Franc Rrumbullaku, Marsel Broqi, Edi Vakefliliu, Erjon Sula, Silva Bala</td>
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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
Chairs: Mohammed Munavvar (Preston (Lancashire), United Kingdom), Dirk-Jan Slebos (Groningen, Netherlands)

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 Porritt, 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, Ellayeh 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), Andreas Kostrogliou, 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

Pleurodesis through drain for malignant pleural effusion: a case control study
Ines Laouini (Nabeul, Tunisia), Narjes Abid, Manel Loukil, Nadia 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 Cocconcelli, 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), Nadia Gader, Narjes Abid, Manel Loukil, Hedia Ghrairi
PA3796  Sustained Results of Bronchoscopic Lung Volume Reduction (BLVR) with Zephyr Valves: Four-year Follow-up - A Case Report
Hugo Goulart De Oliveira (Porto Alegre (RS), Brazil), Diogo Martins De Oliveira, Igor Gorski Benedetto, Ana Luisa Fernandes Dubiela, Taiane Alves Vieira, Narinder S Shargill, Amarilio Vieira De Macedo Neto

PA3797  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
Pavlina Lenga (Berlin, Germany), Christian Graf, Christoph Ruwwe-Glösenkamp, Jacopo Saccamanno, Jens Rücker, Stephan Eggeling, Sven Gläser, Sylke Kurz, Gunda Leschber, Christian Grah, Christoph Ruwwe-Glösenkamp, Jacopo Saccomanno, Jens Rückert, Stefan Schneider, Stefanie Hinterthaller, Joachim Pfannschmidt, Andreas Gebhardt, Franz Stanzel, Angela Holland, Andreas Kirschbaum, Birgit Becke, Olaf Schega, Ralf-Harto Hübner

PA3798  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

PA3799  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 Herth, Ralf Eberhardt

PA3800  Ten years experience of paediatric airway foreign bodies
Diana Rotaru-Cojocari (Chișinău, Republic of Moldova), Victor Rascov, Eva Gudumac, Rodica Selevestru, Ina Garbi, Mariana Gutzun, Elena Papadia, Aliona Cotoman, Cristina Tomacinschi, Svetlana Sciucu

PA3801  Late Breaking Abstract - The role of High Flow Nasal Cannula in reducing hypoxic events during bronchoscopic procedures compared to Low Flow Nasal Cannula: a metaanalysis
Fotios Sampsonas (Patra, Greece), Vasilios Karamouzos, Theodoros Kampaitsakos, Ourinia Papaioannou, Matthias Katsaras, Maria Lagadinou, Dimitrios Velissaris, Grigoris Stratakis, Argyrios Tzouvelekis

PA3802  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

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Pre-congress content

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)

PA3803  Persisting immune response to SARS-CoV-2 in a local Austrian population
Dennis Ladge (Mönchengladbach, Germany), Oliver Harzer, Hannes Winkler, Andrea Knies, Miriam Schneider, Robert Wagner, Peter Engel, Wilhelm Frank, Ralf Braun

PA3804  Bacterial respiratory co-infections of patients hospitalized with COVID-19: a prospective microbiologic study in single tertiary hospital in Kazakhstan
Nelya Bissenova (Astana, Kazakhstan), Aigerim Yergaliyeva

PA3805  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-Victoria Cristea, Antonela Dragomir, Elmira Ibraim, Gina-Ana Ciolan, Eddan Visan Athir, Ioana Bulacu, Ramona Nedelcu, Oana Parlitanu, Stefan Leu, Silviu-Mihail Dumitru, Andreia Cristina Andru, Oana-Andreea Chelaru, Oana Grigore, Beatrice Mahler, Claudia-Lucia Toma, Irina Strambu

PA3806  Predictors of severe COVID-19 disease in the inpatient cohort, Russian Federation.
Grigory Kaminskiy (Moscow, Russian Federation), Elena Veselova, Olga Lovacheva, Tatiana Tyulkova, Anastasia Samolova

PA3807  Prevalence and impact of comorbidities in Tunisian moderate to severe COVID-19 patients
Line Kaabi (Tunis, Tunisia), Sabrine Louhairchi, Ikbel Khalfallah, Rabiah Jebali, Safa Marzouki, Med Ali Kharrat, 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 Baloiro 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 Khamnous (Agadir, Morocco), Fatima Bounaou, Lamia Manssouri, Houda Moubachir, Hind Serhane

Severe prognosis factors linked to Covid-19 patients hospitalized at Hassan II hospital in Agadir

Abdelkrim Khamnous (Agadir, Morocco), Fatima Bounaou, Houda Moubachir, Houda Jamil, Ilyass Esserfati, Houda Moubachir, Houda Serhane

Telemedicine solutions for patients in intensive care unit with Covid-19 in Russia

Michael Brovko (Moscow, Russian Federation), Sergey Moiseev, Sergey Avdeev, Nataliya Trushenko, Viktoria Sholomova, Alexey Moiseev, Aram Kirbalyan, Pavel Potapov, Anastasia Schepalina, Larisa Akulkina, Victor Fomin

Thromboembolic events in COVID-19 patients: A Tunisian case series study.

Sabra Louhaichi (Ariana, Tunisia), Mariem Ferchichi, Ikbelle Khalfallah, Safa Belkhir, Nouha Boubaker, Jamel Ammar, Besma Hamdi, Agnès Hamzaoui

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Dragos-Cosmin Zaharia (Bucuresti, Romania), Alexandra-Maria Cristea, Antonela Dragomir, Elmina Ibraim, Gina-Ana Ciolan, Eddan Visan Athir, Ioana Bulacu, Ramona Nedelcu, Oana Parlitene, Stefan Leu, Silviu-Mihail Dumitru, Beatrice Mahler, Claudia Toma, Irina Strambu

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MARK EDISON DE VERA (Taguig, Philippines), Genevie Ombao, Virginia De Los Reyes

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Tetiana Harashchenko (Kyiv, Ukraine), Yurii Antipkin, Vasyl Podolskiy, Volodymyr Podolskiy, Volodymyr Lapshyn, Tetiana Umanets, Tetiana Kaminiska, Ludmila Livshits

SARS-CoV-2 seropositivity in asymptomatic frontline health workers in Ibadan, Nigeria

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Correlates of the SARS-CoV-2 Ag or Total Ig antibody levels with hematological parameters in Greek hospitalized COVID-19 patients

Erasima Rouka (Larissa, Greece), Ourania Kotsisou, Garyfallia Perlefe, Athanasios Pagonis, Ioannis Pantazopoulos, Konstantinos Gourgoulisian
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)

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## Pre-congress content

### Session 410  
**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)

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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)

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Eamon Sweeney (Letterkenny, Ireland), Marcus Butler, Eleanor Dunican, Emmet Megrath, Michael Keane, Cormac Mccarthy

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Diagnostic role of the cough profile in COVID-19 patients
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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

Pre-congress content
Session 412 13:15 - 14:15

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 Enili Fernandez (München, Germany), Laura Fregonese (London, United Kingdom)

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<td>Late Breaking Abstract - 12-month lung clinical and functional consequences in patients with severe COVID-19</td>
<td>Gulnora Abdullaeva (Moscow, Russian Federation), Malika Mustafina, Segey AvdeeV, Galina Girdina</td>
</tr>
</tbody>
</table>
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), François 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, Nataliia 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 Ncube, 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 (Calí, 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

Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Olha Shchudro, Ksenia Bielosludtseva, Tetyana Pertseva, Lyudmila Konopkina, Mariia Krykhntia

**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

Chamiliya Perera (Kelaniya, Sri Lanka), Zainab Yusuf, Akila Jayamaha, Mark Orme, Upendra Wijayasiri, Tamara 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 (LODEV, 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 Brissimis, 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 Carpegnano

PA3910 Frailty: An indicator for poor outcomes among in-hospital pulmonology patients
Nilüfer Aylin Acet Öztürk (Bursa, Turkey), Nilüfer Aylin Acet Öztürk, Aslı Görek Dilektaşlı, Özge Aydın Güçlü, Ahmet Ursavaş, Ezgi Demirdögen, Funda Coşkun, Esra Uzaslan, Mehmet Karadağ

PA3911 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 Sáncchez, María Granados Santiago, Javier Martín Núñez, Marie Carmen Valenza

PA3912 Does a supplementation in branch amino acid improve pulmonary rehabilitation effect in COPD?
Jean-Claude Meurice (Poitiers, France), Fabrice Caron, Pierre Ingraud, Quentin Graton, Olivier Dupuy, Claire De Bisschop

PA3913 Effects of Combined Physical Training on Lung Function and Mechanics and on Pulmonary Immune Response in Overweight and 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

PA3914 Late Breaking Abstract - Functional benefits of post COVID-19 multidisciplinary pulmonary rehabilitation program
Richard Haouchan (Beirut, Lebanon), Richard Haouchan, Moussa Riachy, Carine Harmouche, Zakha Naoum, Myriam Salameh, Pierre Merheb, Toni Matta, Serge Aoun, Antoine Kik, Marc Raad, Hind Eid, Bassem Habr

PA3915 Process evaluation of the British Lung Foundation Active Steps service
Arwel Jones (Melbourne, Australia), Hayley Robinson, Mark Saunders, Amanda Brewer, Colin Ridyard, Murray Smith, Jenna Peel, Joel Shopland, Claire Wilson, Jan Swan, Susan Frizzell, Abi Dean, Mark Hinchcliffe, Graham Law, Niroshan Siriwardena

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): Airway diseases Respiratory critical care
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)

PA3916 Stop omalizumab: a multicenter follow up study after discontinuation in pediatric patients with severe asthma
Valentina Agnese Ferraro (Roma (VI), Italy), Amelia Licari, Alessandro Volpini, Grazia Fenu, Manuela Seminara, Franca Rusconi

PA3917 Characterisation of a paediatric population referred for a dysfunctional breathing assessment
Kirstin Unger (Edinburgh, United Kingdom), Laura Blazey, Pooja Seta, Kenneth Macleod

PA3918 Use of Omalizumab in children in real clinical practice.
Evelina Lokshina (Moscow, Russian Federation), Svetlana Zaytseva, Olga Zaytseva, Anna Tomilova, Olga Voronina, Olga Murtazaeva, Valery Mukhutorykh, Irina Tsybalk

PA3919 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, Jérôme Msihid, David J. Lederer, Megan Hardin, Yi Zhang, Asif 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 Mcnamara

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

The various questions asked by parents about their children's asthma
Zaidane Israa (Rabat, Morocco), Zaidane Israa, Jaabouti Ghizlane, Batali Soukaina, Benbrahim Fadwa, El Hafidi Naïma, Benchekroun Soumia, Chafiq Mahraoui

The value of magnesium sulfate nebulization in moderate to severe asthma exacerbations in children
Department of pneumo-allergology and pediatric infectious disease Children's hospital CHU Ibn Sina Rabat morocco
Fatima azzahraa yatribi (RABAT, Morocco), Soukaina Batali, Soumia Benchekroun, Naima Hafidi, Chafiq Mahraoui

Long-term effects of multidisciplinary inpatient asthma treatment
Yoni Van Dijk (Badhoevedorp, Netherlands), Monique Trijbeels, Bart Van Ewijk

Prescribing montelukast in children with asthma: a systematic review
Eleanor Dixon (Swindon, United Kingdom), Charlotte King, Daniel Hawcutt, Ian Sinha

Evaluation of the teach-to-goal method in improving inhaler technique in paediatric asthma patients
Orla Mallon (Moneymore, United Kingdom), Michael Shields, Dara O'Donoghue, Patrick Mc Crossan

Assessment of current practice of paediatric respiratory and allergy teams in Cambridge University Hospital during the COVID-19 pandemic era and optimisation of the service
Doxa Kotzia (London, United Kingdom), Elizabeth Powell, Sarah Nethercott, Alaa Ali, Gemma Wilson, Zaraquiza Zolkipi, Donna Mshane

Monoclonal antibody treatments for paediatric severe asthma–outcomes, attitudes and adherence
Megan Sheppard (Sydney (NSW), Australia), Ajay Kevat, Louisa Owens, Melinda Gray

Impact of COVID-19 side-effects on children with recurrent wheeze and asthma
Nicole Maison (München, Germany), Heidrun Herbrüggen, Bianca Schaub, Christina Schaubberger, Svenja Foth, Ruth Grychtol, Mustafa Abdo, Henrik Watz, Wilfried Nikolaizik, Klaus F. Rabe, Matthias Kopp, Gesine Hansen, Erika Von Mutius, Thomas Bahmer, Jimmy Omony

Evidence of early abnormal airways' inflammation in children with type 1 diabetes
Dejan Radovanovic (Milano (MI), Italy), Marina Saad, Elisa Franceschi, Stefano Pini, Giuseppe Croce, Luca Perotto, Maurizio Rizzi, Pierschille Santus

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)
14:50 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 neurilemmoma
Sugeesha 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

Channel 2 Session 416 14:45 - 16:15

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)

**OA3941** Introduction

**OA3942** Initial observed improvement in medication adherence maintained during the COVID-19 pandemic in asthma and COPD
Meredith Barrett (San Francisco, United States of America), Leanne Kaye, Jared Nagano, Vy Vuong, Meredith Barrett, Meredith Barrett

**OA3943** Early supported discharge of COVID-19 patients with home oxygen therapy
Rosie Harkness (Manchester, United Kingdom), Abdel Hakim Rezgui, Rebecca Towns, Rebecca Lessons, Aimee Lindley, Hou Law, David Thomson

**OA3944** Effects of an eHealth intervention promoting correct use of medication in patients with asthma and chronic obstructive pulmonary disease
Kyma 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

**OA3945** Physiological measurements with wearables during urban walks for telemonitoring of patients with COPD
Joren Buekers (Barcelona, Spain), Ane Arbillaga-Etxarri, Elena Gimeno-Santos, Guillaume Chevance, Jean-Marie Aerts, Judith Garcia-Aymerich

**OA3946** Vironix: remote screening, detection, and triage of viral respiratory illness via cloud-enabled, machine-learned APIs.
Samanth Swaminathan (New York, United States of America), Botros Toro, Nicholas Wysham, Nicholas Mark, Sriram Ramanathan, James Morrill, Vimay Konda, Shreyas Iyer, Christopher Landon

**OA3947** Engagement with an asthma app to monitor medication adherence and its association with patients’ characteristics
Rita Amaral (Porto, Portugal), Cristina Isabel Oliveira Jácome, Rute Almeida, Ana Margarida Pereira, Sandra Mendes, Magna Alves-Correia, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Luis Araujo, Mariana Couto, Dario Antolin-Amérgo, 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, Lilia Maia Santos, Ana Arrobas, Margarida Valério, João Cardoso, Madalena Emiliano, Rita Geraldo, José Carlos Cidrais Rodrigues, Georgeta 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 Joao Vasconcelos, Maria Fernanda Teixeira, Manuel Ferreira-Magalhães, Luis Taborda-Barata, Maria José Cállex, Adelaide Alves, João Almeida Fonseca
Assessment of patient engagement and adherence with once-daily indacaterol/glycopyrronium/mometasone (IND/GLY/MF) Breezhaler digital companion in asthma: interim analysis from Germany
Holger Woehrle (Ulm, Germany), Paul Masteridis, David A Stempel, Leanne Kaye, Connelly Doan, Karen Mezzi

Remote monitoring of patients with COPD using a tablet system: proof of concept.
Malte Frerichs (Göteborg, Sweden), Kristina Andelid, Anita Nordenson, Anders Andersson, Monika Crona, Daan Dohmen, Anders Ullman, Lowie G.W. Vanfleteren

Roll-out of video-supported treatment in Moldova to promote people-centered model of care
Cristina Celan (Chisinau, Republic of Moldova), Stela Bivol, Valentina Vile, Sofia Alexandru, Lilian Severin

Late Breaking Abstract - Fully automated airway measurement correlates with radiological disease progression in Idiopathic Pulmonary Fibrosis
Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom), Michael Roberts, Kirl Kirov, Tom McLellan, Evan Morgan, Fahdi Kanavati, Darren Gallagher, Philip Molyneaux, Carola-Bibane Schönlieb, Alessandro Ruggiero

Introduction

Feasibility of assessing ventilation inhomogeneity by volumetric capnography during resuscitation of preterm infants
Emma Williams (London, United Kingdom), Emma Williams, Theodore Dassios, Anne Greenough

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

Long term lung function in those born of multiple versus singleton pregnancies
Christopher Harris (London, United Kingdom), Alan Lunt, Janet Peacock, Anne Greenough

Influence of breathing dynamics on the effective concentration of oxygen delivered to infants via high-flow nasal cannula
Aris Bertzouanis (Patras, Greece), Sotirios Fouzas, Gabriel Dimitriou

Effect of upper airways during non-invasive high frequency oscillatory ventilation (nHFOV)
Davide Bizzotto (Milano (MI), Italy), Chiara Veneroni, Daniele Bani, Raffaele L. Dellacà

Influence of antenatal corticosteroids and sex on the mortality and morbidity of extremely prematurely born infants
Rebecca Lee (London, United Kingdom), Emma Williams, Theodore Dassios, Anne Greenough

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 Cornuau, 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

Late Breaking Abstract - Lung function trajectories in very preterm infant
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Abdulrhman Abdelfattah, Raffaele Dellacà, Maria Luisa Ventura

Late Breaking Abstract - Less invasive surfactant administration (LISA) to preterm infants on high flow nasal cannula (nHFOV).
Asad Nasim (Maidenhead, United Kingdom), Sanja Zivanovic, Muhammad Abubakar, Alexandra Scrivens, Charles Roehr

Discussion
**Channel 4  Session 418  14:45 - 16:15**

**Oral presentation: Acute 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.

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

**Tag(s):** COVID

**Chairs:** Adrian Ceccato (Barcelona, Spain), Chair to be confirmed

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<td>OA3966</td>
<td>Acute and sustained endothelial damage in COVID-19  Raúl Méndez (Valencia, Spain), Paula González-Jímenez, Ana Latorre, Mónica Piqueris, Leyre Bouzas, Katheryn Yépez, Ana Ferrando, Enrique Záldivar-Olmeda, Antonio Moscardó, Ricardo Alonso, Soledad Reyes, Rosario Menéndez</td>
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<td>OA3968</td>
<td>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 Svaroop</td>
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<td>OA3969</td>
<td>NK1 receptor antagonist Tradipitant decreases time to recovery in patients with severe COVID-19, early analysis of Odyssey study data  Sandra Śmieszek (Washington, United States of America)</td>
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<td>OA3971</td>
<td>Symptom Prediction and Mortality Risk Calculation for COVID-19 Using Machine Learning  Nahal Mansouri (Lausanne, Switzerland), Elham Jamshidi, Sahand’ Rahi</td>
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<td>OA3972</td>
<td>Type 1 inflammatory endotype relates to low compliance, lung fibrosis, and severe complications in COVID-19  Takehiro Hasegawa (Hamburg, Germany), Atsushi Nakagawa, Kohjin Suzuki, Kazuto Yamashita, Saya Yamashita, Niina Iwanaga, Eiya Tamada, Kenta Noda, Keisuke Tomii</td>
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<td>OA3973</td>
<td>Comparison of COVID-19 mortality at the first and second wave adjusted for the 4C mortality score  Pierre-Olivier Brivelyaux (Sion, Switzerland), Gregoire Gex, Isabelle Fréard, Petrut Vremaroiu, Niels Gobin, David Lawi, Redouane Bouali</td>
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<td>OA3974</td>
<td>Late Breaking Abstract - Elevated NETosis and migration but impaired anti-microbial responses by COVID-19 neutrophils  Kyle Belchamber (Birmingham, United Kingdom), Shaun Thein, Jon Hazeldine, Frances Grudzinska, Michael Hughes, Alice Jasper, Kay Por Yip, Dhruv Parekh, Elizabeth Saepy, David Thickett, Aaron Scott</td>
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<td>OA3975</td>
<td>Discussion</td>
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**Channel 5  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)

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<tr>
<th>OA3976</th>
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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 Keirsbilck, Benoit Nemery, Peter H.M. Hoet, Steven Vanderschueren, Wim A. Wuys, 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.

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 Kahlmann (Rotterdam, Netherlands), Catharina C. Moor, Caroline E. Broos, Johannes C. C. M. In ’T Veen, Maria J. Overbeek, Marco J. H. Grootscholten, Roxane Keller, 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
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 reflection and discussion of these cases.

**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, Nurse, Radiologist, Respiratory physiotherapist, Respiratory therapist, Medical Student

**Chairs:** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Nicolas Roche (Paris, France), Carolina Maria Gotera Rivera (Madrid, Spain)

**Discussants:** Dave Singh (Manchester, United Kingdom)

**14:45** Introduction

**14:50** Presentation of cases by the session facilitator

- **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
Nicotine and cannabis use among teenagers: from prevention to treatment. What works?
Ashlı Görek Dilektaşlı (Bursa, Turkey)

15:50 Discussion and Q&A

State of the art session: Sleep and breathing disorders

14:45 - 16:15

Sleep revolution meets obstructive sleep apnoea: classification, grading, outcome indicators and use of new technologies

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)

Studio Munich Session 423

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

Respiratory medicine meets other disciplines: Emerging data for the management of respiratory tract infections

14:45 - 16:15

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)

Studio Paris Session 424

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)
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>ID</th>
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<tbody>
<tr>
<td>15:05</td>
<td>Use of diagnostic tests in respiratory tract infections: an economic analysis.</td>
<td>Maarten Postma (Groningen, Netherlands)</td>
<td>4015</td>
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<tr>
<td>15:20</td>
<td>Management of community-acquired pneumonia: new evidence-based algorithms.</td>
<td>Evelina Tacconelli (Milano (MI), Italy)</td>
<td>4016</td>
</tr>
<tr>
<td>15:35</td>
<td>Are antimicrobials still the future of respiratory infection therapy?</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
<td>4017</td>
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<tr>
<td>15:50</td>
<td>Discussion and Q&amp;A</td>
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<td>4018</td>
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</table>

**Channel 6**  
**Session 425**  
**TUESDAY 07 SEPTEMBER, 2021**  
**14:45 - 16:15**  
**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)

<table>
<thead>
<tr>
<th>OA4019</th>
<th>Introduction</th>
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<tbody>
<tr>
<td>OA4020</td>
<td>Comparison of extubation outcome after spontaneous breathing trials with T-piece and pressure support ventilation in patients with expiratory flow limitation</td>
<td>Yanisa Kluanwan (Bangkok, Thailand), Napplika Kongpolprom</td>
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<tr>
<td>OA4021</td>
<td>Validation of Prognostic Scores in Extracorporeal Life Support: A Multi-Centric Retrospective Study</td>
<td>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</td>
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<tr>
<td>OA4022</td>
<td>Tracheostomy Practice and Outcomes in Patients with COVID–19 ARDS – insights from PREVENT–COVID</td>
<td>Anissa Tsonas (Amsterdam, Netherlands), Michela Botta, Janneke Horn, Michael Brenner, Marita Teng, Brendan McGrath, Marcus Schultz, Frederique Paulus, Ary Serpa Neto</td>
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<tr>
<td>OA4023</td>
<td>Electrical impedance tomography monitoring for predicting lung collapse after positive end expiratory pressure decrement in recovering acute respiratory distress syndrome</td>
<td>Thunyawee Sermkaew (Bangkok, Thailand), Napplika Kongpolprom</td>
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<tr>
<td>OA4024</td>
<td>Development and validation of a point of care breath test for octane detection</td>
<td>Laura A. Hagens (Leusden (UT), Netherlands), Alwin R.M. Verschueren, Ariana Lammers, Nanon F.L. Heijnen, Marry R. Smit, Tamara M.E. Nijser, Inge Geven, Marcus J. Schultz, Dennis C.J.J. Bergmans, Ronny M. Schnabel, Lieuw C.J. Bos</td>
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<tr>
<td>OA4025</td>
<td>ROX index validity for predicting mechanical ventilation requirement in pneumonia</td>
<td>Manuela Herrera Tamayo (Bogotá, Colombia), Alirio R Bastidas, Karen D. Pedreros, Manuela Herrera, German A Carmona, Laura D Saza, Laura E Bello, Carlos A Munoz, Juan C Chavez, Jennifer C. Arias, Paula Alcaraz, Maria D. Hernandez, Alejandro Nonzaque, Natalia Trujillo, Andres F Pineda, Gisa S. Montaño, Luis F Reyes</td>
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<tr>
<td>OA4026</td>
<td>Galectin-3 as predictor of mortality and ICU admission in patients with COVID 19 Acute Respiratory Failure</td>
<td>Andrea Portacci (Taranto, Italy), Fabrizio Diaferia, Carla Santomasi, Federica Barratta, Esterina Boniello, Vincenzo Nicola Valerio, Silvano Dragionieri, Giovanna Elisiana Carpannano</td>
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<tr>
<td>OA4027</td>
<td>Coinfection in patients with severe COVID-19 requiring ECMO support. A subanalysis of the ECMO VIBER study.</td>
<td>Maria Martinez Martinez (Barcelona, Spain), Pablo Blanco-Schweizer, Pablo Ruiz De Gopegui, Roberto Roncon-Albuquerque Jr., Maria Paz Fuset, Maria Victoria Boado, Elena Sandover, Ricardo Gimeno, Philip Fortuna, Alfredo González, Joaquin Colomina, Marc Andreu Pedrosa, Maria Sol Siliati Robles, Francesc Xavier Nuvialas Casals, Ricard Ferrer, Jordi Riera</td>
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<tr>
<td>OA4028</td>
<td>Late Breaking Abstract - Cytomegalovirus reactivation in COVID-19 patients with Acute Respiratory Distress Syndrome.</td>
<td>Anupam Agrawal (Lucknow, India), ANUPAM AGRAWAL, Atul Garg, Mohan Gurjar, Ujjala Ghoshal, Prabhakar Mishra, Akshay Arya, Shreyas Gutte, Gaurav Pandey</td>
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**Discussion**
15:30-16:15
INDUSTRY SKILLS LAB WORKSHOP

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 Mahmutovic Persson (Lund, Sweden), Greetje Vande Velde (Leuven, Belgium), Tim Rosenow (Perth (WA), Australia), Merian Kuipers (Den Haag, Netherlands)

Studio Barcelona  
Session 428  
16:15 - 16:30

Breakout room: Lungs on fire, LoF Airway diseases?  
Chairs: Dave Singh (Manchester, United Kingdom), Lydia Finney (London, United Kingdom)

Studio London  
Session 429  
16:15 - 16:30

Breakout room: Symposium, Orphan childhood disease: nicotine and cannabis addiction  
Chairs: Charlotte Pisinger (Frederiksberg, Denmark), Ilona Jaspers (Chapel Hill, United States of America), Elif Dagli (Istanbul, Turkey), Lynne Schofield (Leeds, United Kingdom), Aslı Görek Dilektal (Bursa, Turkey)

Studio Munich  
Session 430  
16:15 - 16:30

Breakout room: State of the art session, Sleep and breathing disorders  
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)

Studio Paris  
Session 431  
16:15 - 16:30

Breakout room: Respiratory medicine meets other disciplines, Emerging data for the management of respiratory tract infections  
Chairs: Maurizio Sanguinetti (Rome, Italy), Evelina Tacconelli (Milano (MI), Italy), Stefano Aliberti (Milano (MI), Italy), Aurélie Crabbé (Ghent, Belgium), Maarten Postma (Groningen, Netherlands)

Channel 1  
Session 432  
16:30 - 18:00

Joint session: Hot topics in thoracic oncology  
ERS/Industry joint session  
Chairs: Torsten Gerriet Blum (Berlin, Germany)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>16:30</td>
<td>Introduction</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
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<tr>
<td>16:35</td>
<td>Checkpoint inhibition (neo-)adjuvant therapy in early stage lung cancer: the oncological evidence</td>
<td>Karim Vermaelen (Ghent, Belgium)</td>
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<td>16:55</td>
<td>Checkpoint inhibition (neo-)adjuvant therapy in early stage lung cancer: the surgical evidence</td>
<td>Isabelle Opitz (Zurich, Switzerland)</td>
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<tr>
<td>17:15</td>
<td>Is pathological response a valid surrogate for outcome?</td>
<td>Aurelie Fabre (Dublin 4, Ireland)</td>
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<tr>
<td>17:35</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>

Channel 2  
Session 433  
16:30 - 18:00

Symposium: Keys to success in science  
Early career member session 2021  
Aims: To describe how young researchers can get involved in European Research Society (ERS) activities; to present critical steps for a successful career in respiratory research and medicine; to discuss challenges and opportunities for women in science.  
Target audience: Clinical researcher, Medical Student, Scientist (basic, translational)  
Chairs: Daniela Gompelmann (Vienna, Austria), Maxime Patout (Mont-Saint Aignan, France)
# ERS Virtual International Congress 2021

## DETAILED PROGRAMME

**TUESDAY 07 SEPTEMBER, 2021**

### Channel 3  
**Session 434**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Presentation Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Introduction</td>
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<tr>
<td>16:35</td>
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<td><strong>ERS activities: how to get involved</strong>&lt;br&gt;Niki Ubags (Epalinges, Switzerland)</td>
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<td>16:50</td>
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<td><strong>Keys for successful science</strong>&lt;br&gt;Lies Lahousse (Ghent, Belgium)</td>
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<td>17:05</td>
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<td><strong>Mina Gaga lecture</strong>&lt;br&gt;Alberto Garcia-Basteiro (Maputo, Mozambique)</td>
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<td>17:20</td>
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<td><strong>Women in science</strong>&lt;br&gt;Sheila Ramjug (Altrincham, United Kingdom)</td>
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<td>17:35</td>
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<td><strong>Discussion and Q&amp;A</strong></td>
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### 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 pneumonia  
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, Jimstian 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 Ekborn (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 (London, United Kingdom), Mira Osimibi, 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 Mancezo (Belo Horizonte (MG), Brazil), Carolina Marinho, Jacqueline 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 Mitte 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 Hérengt, Samuel Vergès |
| OA4051 Association between symptoms and objective physiological outcomes in severe COVID-19 pneumonia survivors  
Caroline Jolley (London, United Kingdom), Parisa Zamani, Sneha 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 |
Late Breaking Abstract - Lung function before and after COVID-19 infection in young adults
Ida Mogensen (Skarpnäck, Sweden), Jenny Hallberg, Sofia Björkander, Qiang Pan-Hammarström, Lena Palmberg, Christer Janson, Anna Bergström, Erik Melen, Inger Kull

Discussion

Channel 4
Session 435 16:30 - 18:00

Oral presentation: Exacerbations of chronic respiratory diseases, including SARS-CoV-2

Aims: This session is based on 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.

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)

OA4054 Introduction

OA4055 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

OA4056 SARS-Cov-2 infection in asthma patients treated with biologics

OA4057 A data management and analysis platform for RASP-UK multiomics clinical datasets
nazarin Zournemat Kermani (hanworth, United Kingdom), John Busby, Kai Sun, Ioannis Pandis, Gabrielle Gainsborough, Yike Guo, Ian Adcock, Tim Hardman, Liam Heaney

OA4058 Association between subcutaneous fat area and risk of asthma exacerbation in obese patients
Armige Gasparyan (Moscow, Russian Federation), Nathalia Chichkova, Natalia Serova

OA4059 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 Megarvey, Anjela Tzoncheva, Qing Li, Allison Martin Nguyen, Jonathan Schellhout, David Muccino, Carmen La Rosa

OA4060 How do cough patterns correlate with novel capsaicin cough challenge parameters?
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Kimberley Holt, Kevin Mcguinness, Kitty Sheppard

OA4061 Chronic cough associated with COPD exacerbation, pneumonia and death: A prospective study of the general population
Eskild Morten Landt (Koege, Denmark), Yunus Colak, Borge G Nordestgaard, Peter Lange, Morten Dahl

OA4062 Exacerbations in chronic obstructive pulmonary disease (COPD) in Ontario, Canada
Erika Penz (Saskatoon, Canada), Stephen Noordyn, Mena Soliman, Christina Qian, Karissa Johnston, Erika Penz

OA4063 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

OA4064 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, Ricca Orzes, Claudio Tantucci

OA4065 Discussion

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)

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 Urbanikowska, Joanna Lange, Honora Mateczuk, Matthias Griesse

OA4071
Pulmonary involvement in rheumatological diseases in children
Pelin Asfuroglu (Ankara, Turkey), Tugba Sismanlar Eyuboglu, Ayse Tana Aslan, Sevcan Bakkaloğlu Ezgu, Oguz Soylemezoglu

OA4072
Respiratory function testing in infants with laryngeal stridor: diagnosis at a glance and follow up.
Silvia Bloise (Roma (RM), Italy), Raffaella Nenna, Laura Petrarcha, 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 Griesse, 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 Cobanoğlu

OA4075
Discussion

16:30-17:15
INDUSTRY SKILLS LAB WORKSHOP SEE PAGE 1

Studio Amsterdam

Journal session: Intestinal 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 (München, Germany), Katerina Antroniou (Heraklion, Greece)

16:30
Introduction
Rebecca Craven (London, United Kingdom)
### Disease pathology in interstitial lung disease
Elisabetta Renzoni (London, United Kingdom)

### Biomarker discovery, development, and implementation in interstitial lung diseases
Gisli Jenkins (London, United Kingdom)

### Early diagnosis of fibrotic interstitial lung disease: challenges and opportunities
Paolo Spagnolo (Padova (PD), Italy)

### Treatment of interstitial lung diseases: current approaches and future directions
Kerri Johannson (Calgary (AB), Canada)

### Discussion and Q&A

### 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)

#### 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
Chairs: Jonathan Grigg (London, United Kingdom), Alexander Möller (Zürich, Switzerland)

**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)

16:30 Introduction

16:35 The effect of the green environment and climate change on respiratory health
    Elaine Fuertes (London, United Kingdom)

16:50 Environmental exposures and socio-economic disparity: the effect on lung health across the life course
    Ulrike Gehring (Utrecht, Netherlands)

17:05 The new WHO air quality guidelines presentation
    Michal Krzyzanowski (London, United Kingdom)

17:20 The new WHO air quality guidelines: policy and clinical implications for children with respiratory diseases
    Barbara Hoffmann (Düsseldorf, Germany)

17:35 Discussion and Q&A

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**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:**

**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)

16:30 Introduction

16:35 Cluster analysis of clinical phenotypes of OSA and its implications for comorbidities
    Jean-Louis Pépin (Grenoble, France)

16:50 Mild sleep apnoea: the hidden base of the iceberg?
    Walter McNicholas (Dublin, Ireland)

17:05 Residual daytime sleepiness and its implications
    Maria Bonsignore (Palermo, Italy)

17:20 Controversies in OSA: causes and future directions
    Patrick Lévy (Grenoble, France)

17:35 Discussion and Q&A
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.

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 Aymérech (Badalona (Barcelona), Spain)
17:20 Antimicrobial resistance and new therapeutic options
   Kristina Crothers (Seattle, United States of America)
17:35 Discussion and Q&A

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 Sahamic (Innsbruck, Austria), Richard Hilbe, Judith Löffler-Ragg, Günter Weiss, Doris Willflingseder, 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 (, Brazil), Cynthia Bartholomeo, Tiago Nicoliche, Robertha Lemes, Nathalia Pinheiro, Wothan Tavares-De-Lima, Iolanda Tiberio, Aymán 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 Duesterhus, Carolin Ebert, Sigrid Horstmann, Karoline Droebner, Martina V. Schmidt

OA4113 Late Breaking Abstract - MicroRNA signatures in critically ill COVID-19 patients: a bronchial aspirate study

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 (Moscow, Russian Federation), Anna Ryabokon, Anna Kozyr, Natalia Zakharova, Maria Indeykina, Alexander Brzhovozvskiy, Ludmila Shogenova, Eugene Nikolaev, Sergey Varfolomeev, Alexander Chuchalin
Late Breaking Abstract - MicroRNA profiling informs on the pulmonary sequelae of COVID-19-induced ARDS

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 Knoll, 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 Patakia, 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

17:30-18:15
INDUSTRY SKILLS LAB WORKSHOP
See Page 1

Studio Amsterdam Session 445 18:00 - 18:15
Breakout room: Breakout room: Journal session, Interstitial lung diseases: from disease mechanisms to novel treatment options
Chairs: Rebecca Craven (London, United Kingdom), Elisabetta Renzoni (London, United Kingdom), Gisli Jenkins (London, United Kingdom), Paolo Spagnolo (Padova (PD), Italy), Kerri Johannson (Calgary (AB), Canada), Merian Kuipers (Den Haag, Netherlands)

Studio Barcelona Session 446 18:00 - 18:15
Breakout room: Breakout room: Grand round. Clinical challenges beyond guidelines
Chairs: Lise Piquilloud (Lausanne, Switzerland), Paul O’Byrne (Hamilton (ON), Canada), Stefano Elia (Roma (RM), Italy), David Kiely (Sheffield (South Yorkshire), United Kingdom), Lydia Finney (London, United Kingdom)

Studio London Session 447 18:00 - 18:15
Breakout room: Breakout room: Hot topics, The environment and climate change effects on lung health across the lifecourse
Chairs: Elaine Fuertes (London, United Kingdom), Michal Krzyzanowski (London, United Kingdom), Barbara Hoffmann (Düsseldorf, Germany), Lynne Schofield (Leeds, United Kingdom), Ulrike Gehring (Utrecht, Netherlands)

Studio Munich Session 448 18:00 - 18:15
Breakout room: Breakout room: Symposium, What is new for sleep apnoea? The European perspective: findings from the European Sleep Apnoea Database (ESADA)
Chairs: Jean-Louis Pépin (Grenoble, France), Walter McNicholas (Dublin, Ireland), Maria Bonsignore (Palermo, Italy), Patrick Lévy (Grenoble, France), Sébastien Baillieul (Grenoble CEDEX 9, France)

Studio Paris Session 449 18:00 - 18:15
Breakout room: 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)

18:15-19:15
INDUSTRY VIRTUAL SYMPOSIUM
SEE PAGE 1

20:00-21:30
INDUSTRY VIRTUAL SYMPOSIUM
SEE PAGE 1
### Studio Amsterdam  
**Session 460  
08:15 - 09:15  
Knowledge café: Challenges raised by COVID in early career respiratory professional training**

**Aims:** To understand the major challenges experienced by early career professionals in 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 aftermaths 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)

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<th>Time</th>
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<tr>
<td>08:15</td>
<td><strong>Challenges raised by COVID in early career respiratory professional training - moderated discussion</strong>&lt;br&gt;Maxime Patout (Mont-Saint Aignan, France), Mareike Lehmann (München, Germany), Sheila Ramjug (Altrincham, United Kingdom)</td>
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<td>08:45</td>
<td><strong>Interactive questions and answers</strong>&lt;br&gt;Maxime Patout (Mont-Saint Aignan, France), Mareike Lehmann (München, Germany), Sheila Ramjug (Altrincham, United Kingdom)</td>
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### Studio Barcelona  
**Session 461  
08:15 - 09:15  
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)

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<tr>
<td>08:15</td>
<td><strong>Engaging with patient organisations - moderated discussion</strong>&lt;br&gt;Kjeld Hansen (Oslo, Norway), Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Eva Sophie Lunde Pedersen (Bern, Switzerland)</td>
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<tr>
<td>08:45</td>
<td><strong>Interactive questions and answers</strong>&lt;br&gt;Pippa Powell (Sheffield (South Yorkshire), United Kingdom), Kjeld Hansen (Oslo, Norway), Cristina Ardura-Garcia (Bern, Switzerland), Eva Sophie Lunde Pedersen (Bern, Switzerland)</td>
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### Studio London  
**Session 462  
08:15 - 09:15  
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)

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<td>08:15</td>
<td><strong>Mobility as an early career respiratory professional - moderated discussion</strong>&lt;br&gt;Melanie Konigshoff (Pittsburgh, United States of America), Rory Morty (Heidelberg, Germany), Niki Ubags (Epalinges, Switzerland)</td>
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<tr>
<td>08:45</td>
<td><strong>Interactive questions and answers</strong>&lt;br&gt;Niki Ubags (Epalinges, Switzerland), Rory Morty (Heidelberg, Germany), Melanie Konigshoff (Pittsburgh, United States of America)</td>
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### Studio Munich  
**Session 463  
08:15 - 09:15  
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)

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<tr>
<td>08:15</td>
<td><strong>Effectively publishing scientific work - moderated discussion</strong>&lt;br&gt;James D. Chalmers (Dundee (Angus), United Kingdom), Esther Barreiro Portela (Barcelona, Spain), Holly Rachael Keir (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>08:45</td>
<td><strong>Interactive questions and answers</strong>&lt;br&gt;Holly Rachael Keir (Dundee (Angus), United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Esther Barreiro Portela (Barcelona, Spain)</td>
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### Studio Paris  
**Session 464  
08:15 - 09:15  
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)

08:15 Identifying your research niche - moderated discussion
Darcy Wagner (Lund, Sweden), Orianne Dumas (Villejuif, France), Speaker to be confirmed

08:45 Interactive questions and answers
Orianne Dumas (Villejuif, France), Darcy Wagner (Lund, Sweden), Speaker to be confirmed

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 Kumalan, 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, Luis Bacchin De Oliveira, Ana Lucia Cavallaro Baraúna Lima, Hugo Dugolin Ceccato, Julian Furtado Silva, Ronald Macedo, Ligia Rocot Ratti, Mônica Corso Pereira

OA4191 Evaluation of COVID-19 radiological abnormalities at follow-up.
Shiva Bikmalla (Stoke-on-Trent (Stafforshire), 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 Ciaraflaglia, 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, Cristiano 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, Nawaid 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 Bonanza, 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
**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)

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**OA4199 Introduction**

**OA4200 Diversity of genetic profiles of Mycobacterium tuberculosis from Ural region of Russia**
Tatiana Umpeleva (Ekaterinburg, Russian Federation), Elena Mazurina, Leonid Lavrenchuk, Natalya Eremeeva, Diana Vakhrusheva

**OA4201 Identification of isoniazid mono-resistance is delayed despite whole genome sequencing**
Mirae Park (London, United Kingdom), Meg Coleman, Laura Martin, Georgie Russell, Ajit Lalvani, Giovanni Satta, Onn Min Kon

**OA4202 Availability of drug susceptibility testing to new/re-purposed anti-tuberculosis drugs: a TBnet study**
Lorenzo Guglielmetti (Paris, France), Claude Leu, Gunar Günther, Graham Bothamley, Christoph Lange, Frank Van Leth

**OA4203 Role of PET CT scans in Tuberculous Meningitis**
Thangakunam Balamugesh (Vellore (Tamil Nadu), India), Rajasekar Sekar, Deepa Shankar, Julie Hephzibah, Devasahayam J Christopher

**OA4204 Genetic polymorphism and phenotypic resistance of Mycobacterium tuberculosis to fluoroquinolones of different generations**
Leonid Lavrenchuk (Ekaterinburg, Russian Federation), Tatiana Umpeleva, Natalya Eremeeva, Diana Vakhrusheva

**OA4205 Residual DNA of Mtb from the bronchoscope channel as a possible cause of false positive results in the diagnosis of tuberculosis**
Natalya Eremeeva (Ekaterinburg, Russian Federation, Sverdlovsk Oblast), Natalya Eremeeva, Tatiana Umpeleva, Diana Vakhrusheva, Leonid Lavrenchuk, Artem Minin

**OA4206 The effectiveness of broncho-alveolar lavage for the pathogen detection in children with pulmonary tuberculosis**
Anastasia Russkikh (Moscow, Russian Federation), Elena Veseleva, Olga Lovacheva, Nadezda Klevno, Anna Panova, Alexandra Gracheva, Anastasia Samoilova, Irina Vasilyeva

**OA4207 Pulmonary non-tuberculous mycobacterial infection in patients without predisposing condition, morphological and immunological overview of a french cohort**

**OA4208 The role of increasing TIM3 on T cells in patients with nontuberculous mycobacterial lung disease: from immune cell dysfunction to clinical severity**
Chin-Chung Shu (Taipei, Taiwan), Chin-Chung Shu, Ping-Huai Wang, Ming Fang Wu

**OA4209 Late Breaking Abstract - Initiation of patient enrollment in treatment with BPaL in Ukraine: first intermediate results**
Natalia Lytvynenko (Kiev, Ukraine), Maryna Pogrebna, Yuliia Senko, Yuriy Gamazin, Iana Terleeva

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**Oral presentation: Pearls in asthma and respiratory burden 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):** Airway diseases

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

**Chairs:** Jennifer Quint (Wimbledon, United Kingdom), Giorgio Walter Canonica (Milano (MI), Italy)

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**OA4211 Introduction**
**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 Romhild 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 (Malmö, 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 (Luleå, Sweden), Sofia Winsa Lindmark, Linnea Hedman, Katja Warm, Tomi Myrberg, Caroline Stridsman, Hanne Kankaanranta, Anne Lindberg, Bo Lundbäck, Eva Rönmark

**Effect of pregnancy on asthma control: a cohort study in rural Sri Lanka**
Shashanka Indeevara Rajapakse Mudiyanselage (Kandy, Sri Lanka), Nuwan Darshana Wickramasinghe, Thilini Chanchala Agampodi, Gayani Amarasinghe, Ayesh Hettiaraechchi, Imasha Upulini Jayasinghe, Iresha Koralagedara, 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 Král, Jana Skricková, Stanislav Kos, Ivana Cierna Peterova, Ondřej Ngo, Jan Kouřil, Vladimír Koblízek

**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 Huhtala, 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 Schaube, Stephen Turner, Suzanne Vijverberg, Zhongli Xu, Anke-Hilse Maitland-Van Der Zee

**Discussion**

**Channel 4**

**Session 468**

**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 (Dienenbeek, Belgium), Wim Derave, Frank Vandenaeele, Pascal Pomiès, Joseph Aumann, Laura Blancquaert, Inge Everaert, Charly Keytsman, Marina Barusso-Grüninger, Maurice Hayot, Martijn Spruit, Chris Burtin

**OA4225 Inhospital NEMS for patients with coexisting physical frailty and cognitive impairments 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, María Carmen Valenza
OA4226 Comparison between two endurance training programmes to increase functional capacity after lung transplantation  
Raquel Sebio Garcia (Barcelona, Spain), Esther Gimenez-Moolhuyzen, Maria M Martin-Garcia, Montserrat Balsa-Canto,  
Manuel Carreira-Parrado

OA4227 Cost-effectiveness analysis of home-based rehabilitation in inoperable lung cancer  
Lara Edbrooke (Melbourne (VIC), Australia), Linda Denhey, Cameron Patrick, Haitham Tuffaha

OA4228 Inspiratory muscle training improves muscle oxygenation and efficiency of extradiaphragmatic inspiratory muscles  
in difficult to wean (DTW) patients  
Marine Van Hollebeke (Leuven, Belgium), Diego Poddighe, Beatrix Clerckx, Greet Hermans, Rik Gosselink, Daniel  
Langer, Zafeiris Louvaris

OA4229 Effects of combining functional exercises and exercise training in COPD  
Fabiano de Lima (Presidente Prudente (SP), Brazil), Carlos Augusto Camillo, Isis Grigoletto, Juliana Uzeloto, Franciele  
Vanderlei, Dionei Ramos, Chris Burtin, Ercy Ramos

OA4230 Dyspnea and endurance with automated oxygen titration during walking in patients with COPD  
Linette Marie Kofod (Jyllinge, Denmark), Elisabeth Westerdal, Morten Tange Kristensen, Barbara Christina Brocki,  
Thomas Ringbæk, Eivind Frausing Hansen

OA4231 Early exercise-based rehabilitation using elastic bands on endobronchial function in patients hospitalized with acute  
exacerbation of COPD.  
Renata Mendes (Sao Carlos (SP), Brazil), Erika Zavaglia Kabbach, Alessandro Domingues Heubel, Anna Claudia  
Santain, Nathany Schafauer, Valéria Amorim Pires Dii Lorenzo, Audrey Borghi-Silva

OA4232 Discussion

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 Hamzi 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 Prérot,  
David Rotzinger, Salim Si-Mohamed, Vincent Bune, Emmanuel Gomez, Laurent Sohier, Helene Morisse Pradier, Martine  
Reynaud Gaubert, Anne Gondouin, Romain Lazor, Yurdagul Uzunhan, Pierre Rigaud, Magali Colombat, Catherine  
Beigelman, Vincent Cottin

OA4236 Idiopathic chronic obliterative bronchiolitis: a multicentric retrospective cohort  
Mouhamad Nasser (Bron, France), Yurdagul Uzunhan, Sandrine Hirschi, Stéphane Jouneau, François Lebargy, Aurélien  
Justet, Camille Taillé, Lidwine Wemeau, Victor Valentin, Raphael Borie, Benoit Godbert, Frédéric Gagnadoux, Laurent  
Guilllemnault, 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, Nicolas Schwerk, Martin Wetzke, Julia Carlens, Nural  
Kiper, Nagehan Emiralioğlu, Frederik Buchvald, Astrid Madsen Ring, Peter N Robinson, Matthias Griese

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
OA4240 Bronchoalveolar lavage fluid (BALF) findings in patients with immune checkpoint inhibitor (ICI)-associated interstitial pneumonia (IP)
Lutz-Bernhard Jehn (Essen, Germany), Julia Wälscher, Thomas E. Wessendorf, Elisabeth Livingstone, Lisa Zimmer, Martin Metzenmacher, Willfried Eberhardt, Dirk Theegarten, Francesco Bonella

OA4241 A First-in-Class PRS Inhibitor, DWN12088, as a Novel Therapeutic Agent for Systemic Sclerosis and Associated Interstitial Lung Disease
Caroline Lee (Yongin, Republic of Korea), Caroline Lee, Da-Jeong Bae, Minjae Cho, Seungmin Shin, Jong Min Kim, Joon-Hwan Lee, Sanghyuk Kang, Jiwon Jung, Hyungmo Koo, Joon Seok Park

OA4242 Local Administration of Targeted Liposomes Loaded with Everolimus for Interstitial Lung Disease in Systemic Sclerosis
Laura Pandolfi (Pavia, Italy), Vanessa Frangipane, Ana Urzainqui, Alessandro Marengo, Kamila Bohne-Japiassu, Veronica Codullo, Lorenzo Cavagna, Valentina Vertui, Sara Bozzini, Monica Morosini, Santos Castañeda, Elias Fattal, Federica Meloni

OA4243 Late Breaking Abstract - Role of matrix metalloproteinase-2 and -9 in experimental lung fibrosis in mice
Tina Bormann (Hannover, Germany), Regina Maus, Jennifer Stolper, Christina Brandenberger, Tobias Welte, Jack Gauldie, Martin Kolb, Ulrich A. Maus

OA4244 Discussion

Studio Amsterdam Session 470 09:30 - 11:00
Symposium: Lung cancer and fibrotic interstitial lung diseases: a challenging association for pulmonologists

Diagnosis, improved treatment and prevention of lung cancer in patients with fibrotic interstitial lung disease
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 explain the importance of cancer treatments that could improve the survival of such patients; to investigate how anti-fibrotic treatments or other therapeutic innovations could modify 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

09:35 Current portrait of LC-fILD: from epidemiology to clinico-patholo-radiological presentation and prognosis
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

Studio Barcelona Session 471 09:30 - 10:10
Pro-Con debate: Fractionated exhaled nitric oxide for the diagnosis of asthma: friend or foe?
Chairs: Omar S. Usmani (London, United Kingdom), Mina Gaga (Athens, Greece)

09:30 Introduction

09:32 FeNO for the diagnosis of asthma: friend
Iñigo Ojanguren Arranz (Barcelona, Spain)

09:44 FeNO for the diagnosis of asthma: foe
Renaud Louis (Liège, Belgium)
Discussion and Q&A

Hot topics: Viral infections trigger chronic lung damage and disease

**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 virus-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)

09:30 - 11:00

09:30 Introduction

09:35 Emerging respiratory virus infections threaten pulmonary health
Speaker to be confirmed

09:50 Post-viral effects on the susceptibility of developing chronic lung diseases
Donald Sin (Vancouver (BC), Canada)

10:05 Development of paediatric asthma following viral infections
Sejal Saglani (London, United Kingdom)

10:20 The role of viruses in the pathogenesis of pulmonary fibrosis
Silke Meiners (München, Germany)

10:35 Discussion and Q&A

Clinical trials session: ALERT: bronchiectasis and COVID

**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), Tobias Welte (Hannover, Germany)

**RCT4266** Introduction

**RCT4267** RCT Abstract - The efficacy and safety of colistimethate sodium delivered via the I-neb in bronchiectasis: the PROMIS-I randomized controlled trial
Charles Haworth (Cambridge, United Kingdom), Michal Shteinberg, Kevin L Winthrop, Francesco Blasi, Katerina Dimakou, Lucy Morgan, Felix C Ringhsausen, Oriol S Vidal, Rachel Thompson, Kelly Sharp, Ischa Vissers, Dearbhma Hull, James D Chalmers

**RCT4268** Exposure-response relationships of brensocatib in patients with non-cystic fibrosis bronchiectasis (NCFBE)
Carlos Fernandez (Bridgewater, United States of America), Christopher M. Rubino, Ariel Teper, Helen Usansky, James D. Chalmers, Kevin C. Mange

**RCT4269** Wrap-up by discussant and discussion
Speaker to be confirmed

**RCT4270** 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, Nicola McGowan, Benjamin Messer, Jay Naisbit, Chloe Norman, Dhruv Parekh, Emma M Parkin, 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

RCT Wrap-up by discussant and discussion
Speaker to be confirmed

RCT 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)

09:30 Introduction

09:35 Pulmonary haemorrhage in children
Nadia Nathan (Paris, France)

09:50 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

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 Dekhuijzen

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

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, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist
Chairs: Omar S. Usmani (London, United Kingdom), Mina Gaga (Athens, Greece)

10:20 Introduction 4292

10:22 Lung metastasectomy should always be performed. The aim of new dedicated TNM staging for lung metastases
Marcello Migliore (Catania (CT), Italy) 4293

10:34 An alternative to surgical metastasectomy
Carole Ridge (London, United Kingdom) 4294

10:46 Discussion and Q&A 4295

Studio Amsterdam  Session 479  11:00 - 11:15
Breakout room: Breakout room: Symposium, Lung cancer and fibrotic interstitial lung diseases: a challenging association for pulmonologists
Chairs: Charles Wong (Hong Kong, Hong Kong), Manuela Funke-Chambour (Bern, Switzerland), Venerino Poletti (Forlì, Italy), Jacques Cadranel (Paris Cedex 20, France), Athol Wells (London, United Kingdom)

Studio Barcelona  Session 480  11:00 - 11:15
Breakout room: Breakout room: Pro-Con debate, Lung metastasectomy: let’s pour some water on the fire
Chairs: Marcello Migliore (Catania (CT), Italy), Carole Ridge (London, United Kingdom), Merian Kuipers (Den Haag, Netherlands)

Studio London  
Session 481  
11:00 - 11:15  
Breakout room: Breakout room: Hot topics. Viral infections trigger chronic lung damage and disease
Chairs: Johnatas Silva (Belfast (Northern Ireland), United Kingdom), Donald Sin (Vancouver (BC), Canada), Sejal Saglani (London, United Kingdom), Silke Meiners (München, Germany), Chair to be confirmed

Studio Munich  
Session 482  
11:00 - 11:15  
Breakout room: Breakout room: Clinical trials session, 4-ALERT: bronchiectasis and COVID
Chairs: Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Chair to be confirmed

Studio Paris  
Session 483  
11:00 - 11:15  
Breakout room: Breakout room: State of the art session, Paediatric respiratory diseases
Chairs: Dilber Ademhan Tural (Ankara, Turkey), Nadia Nathan (Paris, France), Patrick Meyer Sauteur (Zurich, Switzerland), Atul Gupta (London, United Kingdom), Bas Pullens (Rotterdam, Netherlands)

Channel 1  
Session 484  
11:15 - 12:30  
Challenging clinical cases: CCC Pulmonary vascular diseases

Chairs: Luke Howard (London, United Kingdom), Silvia Ulrich (Zurich, Switzerland)

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<th>Time</th>
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<td>The case of hypoxaemic respiratory failure in a patient with mild COPD</td>
<td>Luca Nicola Cesare Bianchi (Rovato (Bs), Italy)</td>
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<td>Double edge sword</td>
<td>Sameer Vaidya (Indore (Madhya Pardesh), India)</td>
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<td>An unusual case of pleuritis</td>
<td>Federico Mei (Ancona (AN), Italy)</td>
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<td>Polycythemia and infertility</td>
<td>Charlotte Cohen (Nice, France)</td>
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<td>Keeping it in the family</td>
<td>Raja Muthusami (hereford, United Kingdom)</td>
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<td>Discussion and Q&amp;A</td>
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Channel 2  
Session 485  
11:15 - 12:45  
Oral presentation: Emerging respiratory diseases: state-of-the-art studies of SARS-CoV-2 infection

Chairs: Niki Ubags (Epalinges, Switzerland), Debby Bogaert (Edinburgh, United Kingdom)

OA4303 Introduction
TD-0903, an inhaled JAK inhibitor in development for COVID-19, blocks ARDS-relevant hyperinflammation and lung injury in primary human immune and airway epithelial cells
Reuben Sana (South San Francisco, United States of America), Emma Gordon, Aaron Navratil, Erik Sandvik, Jacky Woo, Rajeev Saggar, Ed Moran, Elad Kaufman

SARS-CoV-2 D614G-infected airway organoids reveal enhanced viral fitness in COPD bronchi
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 S Pathinayake, Tsin Wen Yeo, Brian G Oliver, Peter A B Wark, Lin-Fa Wang, Sanjay J Chotirmall

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
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

The mucosal immunity of the respiratory tract in COVID-19 convalescent healthcare professionals
Nadezda Kryukova (Moscow, Russian Federation), Natalia Abramova, Ekaterina Khromova, Valerija Zakharaeva, Svetlana Skhodova, Irina Bisheva, Aleksandra Vinintskaya, Mikhail Kostinov, Irina Baranova, Oxana Svitich, Alexander Chuclalin

Sex-Hormone Specific Responses to SARS-CoV2 in an iPSC-derived human model of Type 2 Alveolar Epithelial Cells
Irene Oglesby (Dublin 9, Ireland), Arlene Glasgow, Mari Ozaki, Catherine Greene, Killian Hurley

Maha Zohra Ladjemi (Paris, France), Melissa Saichi, Sarantis Korniotis, Christophe Rousseau, Zakaria Ait-Hamou, Lucile Massenet, Elise Amblard, Floriane Noel, Yannick Marie, Delphine Boutellier, Jasna Medvedovic, Frederic Pené, Vassili Soumelis

Modulation of the innate and adaptive immune system during coronavirus infection.
Philipp Hohensinner (Vienna, Austria), Manuel Salzmann, Johann Wojta, Roberto Plasenzotti

Alveolar type II cells harbouring SARS-CoV-2 show senescence with a proinflammatory phenotype
Koralia Paschalaki (London, United Kingdom), Konstantinos Evangelou, Dimitrios Veroutis, Periklis Foukas, Christos Kittas, Athanasios Tzioufas, Laurene De Leval, Demetris Vassilikos, Peter Barnes, Vassilis Gorgoulis

Discussion
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

Spirometry and under-diagnosis of COPD in a lung cancer screening cohort
Claire Bradley (letterkenny, Ireland), Martyn Kennedy, Alison Boland, Deborah Ellames, Doytchin Dimov, Rhian Gabe, Panos Alexandris, Philip A J Crosbie, Matthew E J Callister
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, Hariharan Iyer, Randeep Guleria, Anurag Agrawal, Anant Mohan

Validation of lung nodule detection a year before diagnosis in NLST dataset based on a deep learning system
Hervé Delingette (Sophia antipolis, France), Benoît Audelan, Stéphanie Lopez, Pierre Fillard, Yann Diascorn, Bernard Padovani

Clinical and molecular analysis of lung cancer associated with fibrosis and diffuse interstitial lung disease.
Valentin Heluain (Toulouse, France), Grégoire Prévot, Bastien Cabarrou, Olivier Calvayrac, Estelle Clermont, Alain Didier, Julie Milia, Julien Mazières

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

LSC - 2021 - CAMP response element-binding protein mediates immune-evasion of KRAS-mutant lung adenocarcinoma
Georgia A. Giotopoulou (Munich, Germany), Giannoula Ntaliarda (ntaliarda@upatras.gr / Department of Physiology, Faculty of Medicine, University of Patras, Patras), Antonia Kafriati (kafriati@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), Theofilos Mantamadiotis (theo.mantamadiotis@unimelb.edu.au / Cancer Signaling Laboratory, Department of Pathology, University of Melbourne, Melbourne), Torsten Goldmann (goldmann@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Borstel, Borstel), Sebastian Marwitz (smarwitz@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Borstel, Borstel), Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center Munich, Munich)

LSC - 2021 - Mutational RNA signatures in environmentally-induced lung adenocarcinoma
Georgia A. Giotopoulou (Munich, Germany), Sabine J. Behrend (sabine.behrend@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center Munich, 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, Munich), Mario A.A. Pepe (mario.pepe1985@libero.it / Comprehensive Pneumology Center, Helmholtz Center Munich, Munich), Ioannis Lilis (ioannis.lilis@insybio.co.uk / InSyBio Ltd; Winchester, Hampshire, SO23 8SR; United Kingdom, London), Theofilos Mantamadiotis (theo.mantamadiotis@unimelb.edu.au / Cancer Signaling Laboratory, Department of Pathology, University of Melbourne, Melbourne), Torsten Goldmann (goldmann@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Borstel, Borstel), Sebastian Marwitz (smarwitz@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel; Airway Research Center North (ARCN); Borstel, Borstel), Georgios T. Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Center Munich, Munich)

The predictive value of circulating tumor DNA dynamics in plasma of EGFR-mutation-positive NSCLC patients on first line tyrosine kinase inhibitors
Adam Szpeciński (Warszawa, Poland), Maciej Bryl, Grzegorz Czyzewicz, Emil Wojda, Daria Swiniuch, Marek Szpiech, 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, Maria T Munoz, Luis Paz-Ares, Eva M Garrido-Martin

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.

OA4316
OA4317
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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), Chair to be confirmed

OA4326  Introduction

OA4327  A novel prognostic signature based on five-immune-related genes for idiopathic pulmonary fibrosis
Lingxiao Qiu (Zhengzhou, China), Gen-Cheng Gong, Guojun Zhang

OA4328  Clinical course of suspected familial versus sporadic IPF Data from the PROOF-Next IPF registry
Antoine Froidure (Bruxelles, Belgium), Benjamin Bondue, Caroline Dahlqvist, Julien Guiot, Natacha Gusbin, Gil Wirtz, Guy Joos, Danielle Strems, Hans Słabbynck, Wim Wyts

OA4329  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 Luíz Pinto Santos, Eliane Viana Mancuzo, Rodrigo Tocantins Calado, Ricardo De Amorim Corrêa

OA4330  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

OA4331  Bioinformatics analysis of differentially expressed genes and pathways in idiopathic pulmonary fibrosis
Nana Li (Zhengzhou, China), Lingxiao Qiu, Cheng Zeng, Guojun Zhang

OA4332  Impaired lung NK activity in the lung of Idiopathic Pulmonary Fibrosis patients
Tamarra Cruz (Barcelona, Spain), Anna Bondoneé, JohnSembrat, Tracy Tabib, Wenping Zhang, Nilay Mitash, Dario Vignalli, Ana L. Mora, Robert Lafyatis, Mauricio Rojas

OA4333  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-Thorsson, Magnus Sköld

OA4334  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, Matthais Katsaras, Fotos Sampsonas, Demosthenes Bouros, Vassilis Aidinis

OA4335  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.schoessler@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. Wohlnaas (christian.thadaeaus.wohnnaas@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Coralie Violett (coralie.violett@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Stefanie Dichtl (sdichtl@biochem.mpg.de / Max Planck Institute of Biochemistry,Martinsried), Cornelia Tlpl (cornelia.tlp@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Matthew J. Thomas (matthew.james.thomas@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Florian Gantner (florian.gantner@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Wioletta Skronska-Wasek (wioletta.skronska-wasek@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Heinrich J. Huber (heinrich.huber@boehringer-ingelheim.com / Boehringer Ingelheim Pharma GmbH & Co. KG,Biberach), Peter J. Murray (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)

OA4336  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

OA4337  Discussion
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 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 (Tielt (BT), Belgium), Rahul Bhatnagar (Bristol, United Kingdom)

OA4338 Introduction

OA4339 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, Ruth Knight, Susan Dutton, Emma Hedley, Hamia Piotrowska, Louise Brown, Rachel Mercer, Rachelle Asciak, Eihab Bedawi, Rob Hallifax, Mark Slade, Rachel Benamore, Anthony Edey, Robert Miller, Nick Maskell, Najib Rahman

OA4340 Lung ultrasound to phenotype chronic lung allograft dysfunction in lung transplant recipients. A prospective observational study.
Jesper Remhild Davidsen (Odense C, Denmark), Christian B. Laursen, Mikkel Højlund, Thomas Kromann Lund, Klaus Nielsen Jeschke, Martin Iversen, Anna Kalhauge, Elisabeth Bendstrup, Jørn Carlsen, Michael Perch, Daniel Pilsgaard Henriksen, Hans Henrik Lawaetz Schultz

OA4341 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

OA4342 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

OA4343 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

OA4344 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

OA4345 Lung ultrasound aeration score for prognostication in invasively ventilated COVID-19 patients: multicenter observational study.

OA4346 Assessing the diagnostic accuracy of ultrasound-guided percutaneous cutting-needle pleural biopsy - A systematic review and meta-analysis
Michael Pace Bardon (Swieqi, Malta), Nawaaid Ahmad

OA4347 Diagnostic accuracy of focused deep venous, lung, cardiac, and multiorgan ultrasound in suspected pulmonary embolism: a systematic review and meta-analysis
Casper Falster (Odense, Denmark), Niels Jacobsen, Karen Coman, Mikkel Højlund, Thomas Gaist, Stefan Posth, Jacob Møller, Mikkel Brabrand, Christian Laursen

OA4348 Discussion

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 ultrarare 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 Gertret Blum (Berlin, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

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<th>Time</th>
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<tr>
<td>11:15</td>
<td>Introduction</td>
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<tr>
<td>11:20</td>
<td>Progress made in ultra-rare lung diseases</td>
<td>Maria Molina-Molina (Barcelona, Spain)</td>
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<td>11:35</td>
<td>Severe sarcoidosis: clinical features and management</td>
<td>Paolo Spagnolo (Padova (PD), Italy)</td>
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<td>11:50</td>
<td>Rare lung diseases in children: challenges for diagnosis and treatment</td>
<td>Helge Hebestreit (Wuerzburg, Germany)</td>
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<td>12:05</td>
<td>What we have learned about alpha-1-antitrypsin deficiency</td>
<td>Jan Stolk (Leiden, Netherlands)</td>
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<td>12:20</td>
<td>Discussion and Q&amp;A</td>
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**Studio Barcelona**

**Session 490**

**11:15 - 12:45**

**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

**Chairs :** Omar S. Usmani (London, United Kingdom), Mina Gaga (Athens, Greece)

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<tr>
<th>Time</th>
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<tr>
<td>11:15</td>
<td>Introduction</td>
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<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>
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<td>11:50</td>
<td>Will we ever be successful? Managing T2-low asthma</td>
<td>Anneke Ten Brinke (Leeuwarden, Netherlands)</td>
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<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>
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<tr>
<td>12:20</td>
<td>Will we really achieve anti-ageing lung treatments? Abnormal lung ageing in COPD</td>
<td>Corry-Anke Brandsma (Groningen, Netherlands)</td>
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<tr>
<td>12:20</td>
<td>Discussion and Q&amp;A</td>
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**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.
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

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

Chairs: Thomas Geiser (Bern, Switzerland), Anh Tuan Dinh-Xuan (Paris, France)

Discusants: Pierre-Régis Burgel (Paris, France)

11:15 Introduction

11:20 Presentation of cases by the session facilitator
    Pierre-Régis Burgel (Paris, France)

    Case 1 - Author: Paula Fernandez Martinez, Spain
    Case 2 - Author: Ruby Joseph K, India
    Case 3 - Author: Serena Casanova, Italy
    Case 4 - Author: Sophie Cottin, Belgium

12:40 Session wrap-up

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)  

11:15 Introduction  

11:20 Spontaneous pneumoperitoneum: do I remove the chest drain?  
George Lawson (London, United Kingdom)  

11:40 A case of chylothorax at the age of 13 months  
Heidi Schaballie (Belsele, Belgium)  

12:00 Bilateral interstitial pneumonia in an 8-year-old boy: not only COVID-19!  
Maria Elisa Di Cicco (Pisa (PI), Italy)  

12:20 A 9-year-old boy with a swelling on the chest wall  
Tamsin Thornton (Norwich, United Kingdom)  

12:40 Session wrap-up  

Channel 6 Session 494 11:15 - 12:45  

**Oral presentation: Different treatment modalities and impact of comorbidities on 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.  
This session includes the Best Abstract for Assembly 4 - Sleep Disordered Breathing, entitled "Pitolisant long term effect in sleepy obstructive sleep apnea patients with CPAP"  

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

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

**Chairs** : Marta Susana Monteiro Drummond Freitas (Maia, Portugal), Dries Testelmans (Leuven, Belgium)  

- **OA4380** Introduction  

- **OA4381** Pitolisant long term effect in sleepy obstructive sleep apnea patients with CPAP.  
Jean-Louis Pépin (Grenoble, France), Ognian Georgiev, Rumen Tiholov, Valérie Attali, Johan Verbraecken, Bertien Buyse, Markku Partinen, Ingo Fietze, Georgi Belev, Dejan Dokic, Renaud Tamisier, Patrick Lévy, CHRISTIAN CAUSSE, Isabelle Lecomte, Jeanne-Marie Lecomte, Jean-Charles Schwartz, Yves Dauvilliers  

- **OA4382** 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, Amnura Abdraeva, Jana Buenzl, Shoora Aydaralieva, Ulan Sheraliyev, Nuriddin H Marazhapov, Talant M Sooronbaev, Silvia Ulrich, Konrad E Bloch  

- **OA4383** 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, Peter Lennartz, Ludger Grote  

- **OA4384** The effect of obstructive sleep apnoea on the retinal vascular reactivity: a randomised trial  
Christopher Turnbull (Oxford (Oxfordshire), United Kingdom), Rebekka Heitmar, John Stradling  

- **OA4385** 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 Pépin
### Rates of CPAP therapy termination in different obstructive sleep apnoea patient phenotypes: analysis of the French nationwide health claims database

Jean-Louis Pépin (Grenoble, France), Sebastien Bailly, Pierre Rinder, Dan Adler, Daniel Szeftel, Atul Malhotra, Peter Cistulli, Adam Benjafiefield, 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 Thunström, 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 Pépin (Grenoble, France), Sebastien Bailly, Florent Lavergne, Pierre Rinder, Dan Adler, Adam Benjafiefield, Anne Josseran, Paul Sinel-Boucher, Renaud Tamisier, Peter Cistulli, Atul Malhotra, Pierre Hornus

### Discussion

#### Studio Amsterdam

**Session 495**

12:45 - 13:00

**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**: 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**: Hot topics, Inhalte the future: ambulatory sensing technologies, digital biomarkers and explainable insights

**Chairs**: Johnatas Silva (Belfast (Northern Ireland), United Kingdom), Mara Paneroti (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**: 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**: 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)
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<th>No Room</th>
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<td>Assembly members' meeting: ONLINE ERS General Assembly</td>
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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)

07:45 Welcome and introduction
Neil C. Barnes (London, United Kingdom)

07:52 Confronting difficult-to-treat asthma: The case of a 38-year-old lady with allergies
Runa Ali (London, United Kingdom)

08:02 Optimising symptomatic COPD: The case of a 69-year-old ex-smoker with symptoms and exacerbations
Alberto Papi (Ferrara, Italy)

08:19 Breaking it down: The case of a 67-year-old ex-smoker with COPD, atopy and angina
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

08:35 Treatable Traits approach in primary care: The case of a patient with mild asthma but poor control
Mike Thomas (Southampton (Hampshire), United Kingdom)

08:49 Summary and conclusion
Neil C. Barnes (London, United Kingdom)

08:50 Q&A session
Neil C. Barnes (London, United Kingdom)

Industry Virtual Symposium: Innovations in MAC-PD: beyond oral triple therapy
Organised by Insmed
Chairs: Michael Loebinger (London, United Kingdom)

08:15 Symposium overview and introduction
Michael Loebinger (London, United Kingdom)

08:20 What do the 2020 NTM-PD guidelines mean for clinical practice when treating MAC-PD?
Christoph Lange (Borstel, Germany)

08:35 Managing your MAC-PD patient - negotiating the key decision points
Natalie Lorent (Leuven, Belgium)

08:50 Antibiotic therapy for MAC-PD: managing common side-effects
Stefano Aliberti (Milano (MI), Italy)

09:05 Q&A
Michael Loebinger (London, United Kingdom), Christoph Lange (Borstel, Germany), Natalie Lorent (Leuven, Belgium), Stefano Aliberti (Milano (MI), Italy)

09:10 Summary and Close
Michael Loebinger (London, United Kingdom)

Industry Virtual Symposium: Latest asthma guidelines: challenges for policy and practice
Organised by AstraZeneca
Chairs: Eric D. Bateman (Cape Town, South Africa)

13:00 Chair's welcome
Eric D. Bateman (Cape Town, South Africa)

13:10 Anti-inflammatory reliever algorithm: implementing changes in clinical practice
Richard Beasley (Wellington, New Zealand)

13:25 SABINA: the asthma reliever ‘pandemic’
Jennifer Quint (Wimbledon, United Kingdom)
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<td>The SABA situation: changing the status quo</td>
<td>Andrew Mcivor (Oakville (ON), Canada)</td>
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<td>The patient perspective: why we need to change now</td>
<td>Tonya Winders (Hendersonville, United States of America)</td>
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<td>14:10</td>
<td>Audience Q&amp;A</td>
<td>Eric D. Bateman (Cape Town, South Africa), Jennifer Quint (Wimbledon, United Kingdom), Andrew Mcivor (Oakville (ON), Canada), Tonya Winders (Hendersonville, United States of America)</td>
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<td><strong>Channel 4.</strong> Session 80 13:00 - 14:30</td>
<td><strong>Industry Virtual Symposium: MDT in fibrosing ILDs: who and when?</strong></td>
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<td><strong>Organised by Boehringer Ingelheim International GmbH</strong></td>
<td><strong>Chairs:</strong> Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)</td>
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<td>13:00</td>
<td>Welcome and introduction</td>
<td>Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)</td>
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<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>
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<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>
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<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>
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<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>
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<td><strong>Channel 5.</strong> Session 81 13:00 - 14:15</td>
<td><strong>Industry Virtual Symposium: Connecting Type 2 Inflammation to Clinical Management of Pediatric Severe Asthma</strong></td>
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<td><strong>Organised by Sanofi Genzyme and Regeneron</strong></td>
<td><strong>Chairs:</strong> Nikolaos Papadopoulos (Manchester, United Kingdom)</td>
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<td>13:00</td>
<td>Clinical Perspectives on the Burden of Pediatric Severe Asthma</td>
<td>Eckard Hamelmann (Bielefeld, Germany)</td>
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<td>13:20</td>
<td>Type 2 Inflammation Underpins Phenotypes of Pediatric Severe Asthma</td>
<td>Nikolaos Papadopoulos (Manchester, United Kingdom)</td>
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<td>13:40</td>
<td>Management Considerations for Biologic Use in Pediatric Severe Asthma Patients</td>
<td>Giorgio Piacentini (Verona (VR), Italy)</td>
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<td>14:00</td>
<td>Question and Answer</td>
<td>Giorgio Piacentini (Verona (VR), Italy), Eckard Hamelmann (Bielefeld, Germany)</td>
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<td><strong>Channel 6.</strong> Session 82 13:00 - 14:00</td>
<td><strong>Industry Virtual Symposium: Omalizumab in focus: experts, evidence and experience</strong></td>
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<td><strong>Organised by Novartis Pharma AG</strong></td>
<td><strong>Chairs:</strong> Nikolaos Papadopoulos (Manchester, United Kingdom)</td>
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<tr>
<td>13:00</td>
<td>Welcome and Introduction</td>
<td>Nikolaos Papadopoulos (Manchester, United Kingdom)</td>
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Clinically relevant questions to include:

An update on long-COVID disease and the use of biologics?
What impact does omalizumab have on asthma control in severe allergic asthma?
What is the optimal duration of omalizumab treatment in severe allergic asthma?
Can omalizumab be used during pregnancy and breastfeeding?
Why is it important to assess allergy in severe asthma and nasal polyposis?
Skin prick test or allergen-specific IgE – which one should be used?
What are the practical considerations when recommending home use of biologics?

Valerie J. Lund (, United Kingdom), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)

Skills Lab. Session 142 15:30 - 16:15
Industry Skills Lab Workshop: Pediatric Noninvasive Ventilation: Modes and Settings
Organised by Philips

15:30 Modes and settings specific to the pediatric patient
Uros Krivec (Ljubljana, Slovenia)

16:00 Trilogy Evo demonstration of the modes for pediatric ventilation
Ivana Sundov (Zapresic, Croatia)

Skills Lab. Session 153 16:30 - 17:15
Industry Skills Lab Workshop: Flexible cryo applications: state of the art and future perspectives
Organised by Erbe Elektromedizin GmbH

16:30 Introduction
Niklas Dr. med. Froemmel

16:35 Flexible cryo applications: State of the art
Jürgen Hetzel (Tuebingen, Germany)

16:50 Flexible cryo applications: Future perspectives
Felix J.F. Herth (Heidelberg, Germany)

Skills Lab. Session 160 17:30 - 18:15
Industry Skills Lab Workshop: PENTAX Medical ONE Pulmo: The single-use bronchoscope enhancing pulmonary care
Organised by PENTAX Europe GmbH

17:30 Introduction of PENTAX Medical ONE Pulmo, the single-use bronchoscope
SATSUKI AMANO (TOKYO, Japan)

17:40 Role of single-use bronchoscopes in respiratory care
Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

17:50 Clinical case 1: Single-use bronchoscopy
Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

17:55 Clinical case 2: Single-use navigation bronchoscopy
Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

18:05 Q&A session
SATSUKI AMANO (TOKYO, Japan)
### Channel 1. Session 167 18:15 - 19:45

**Industry Virtual Symposium: COPD: Same problem, different recommendations across guidelines – What do I do?**

*Organised by GlaxoSmithKline*

**Chairs:** Neil C. Barnes (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Introduction</td>
<td>Neil C. Barnes (London, United Kingdom)</td>
</tr>
<tr>
<td>18:18</td>
<td>Who should start with dual- versus mono- bronchodilator therapy?</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
<tr>
<td>18:31</td>
<td>Which patients should receive ICS-containing therapy?</td>
<td>Jean Bourbeau (Montréal (QC), Canada)</td>
</tr>
<tr>
<td>18:47</td>
<td>What is the rationale to stop or continue ICS-containing therapy?</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>19:05</td>
<td>COPD in the frail patient: Factors affecting inhaler performance</td>
<td>Neil C. Barnes (London, United Kingdom), Raj Sharma (London, United Kingdom)</td>
</tr>
<tr>
<td>19:21</td>
<td>Summary</td>
<td>Neil C. Barnes (London, United Kingdom)</td>
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<tr>
<td>19:24</td>
<td>Q&amp;A</td>
<td>Neil C. Barnes (London, United Kingdom)</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>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome and introduction</td>
<td>Sameer Mathur (Wisconsin, United States of America), James D. Chalmers (Dundee (Angus), United Kingdom)</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 (Dundee (Angus), United Kingdom)</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), James D. Chalmers (Dundee (Angus), United Kingdom), Matthieu Groh (Suresnes, France)</td>
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</tbody>
</table>

### Channel 3. Session 169 18:15 - 19:45

**Industry Virtual Symposium: Preventing mortality and protecting patients with COPD: a multi-disciplinary 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>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 Price (Singapore, Singapore), David Berg (Boston, United States of America)</td>
</tr>
</tbody>
</table>
### Panel discussion | Protecting patients: early intervention as a new paradigm in the COPD treatment landscape

Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Bartolome R. Celli Croquer (Boston, United States of America), David Price (Singapore, Singapore), David Berg (Boston, United States of America)

### Preventing disease progression and reducing mortality risk: tools to challenge current clinical practice in COPD

Bartolome R. Celli Croquer (Boston, United States of America)

### Panel discussion | Preventing disease progression and reducing mortality risk: tools to challenge current clinical practice in COPD

Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Bartolome R. Celli Croquer (Boston, United States of America), David Price (Singapore, Singapore), David Berg (Boston, United States of America)

### Audience Q&A and concluding remarks

Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Bartolome R. Celli Croquer (Boston, United States of America), David Price (Singapore, Singapore), David Berg (Boston, United States of America)

### 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)

**Welcome and introduction**
Sarah Jarvis (London, United Kingdom)

### Evidence-based decisions: Discussion of dyspnoea and risk management in COPD

Sarah Jarvis (London, United Kingdom), MeiLan K. Han (Ann Arbor, United States of America), John R Hurst (London, United Kingdom)

### Live Q&A and closing comments

Sarah Jarvis (London, United Kingdom), MeiLan K. Han (Ann Arbor, United States of America), John R Hurst (London, United Kingdom)

### Industry Virtual Symposium: Dupilumab Long-Term Impact on Patient Outcomes in Severe Asthma

Organised by Sanofi Genzyme and Regeneron

**Opening Remarks**
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America), Arnaud Bourdin (Montpellier Cedex 5, France)

**Emerging Evidence from TRAVERSE: Long-term Safety and Efficacy of Dupilumab in Uncontrolled, Severe Type 2 Asthma**
Klaus F. Rabe (Kiel, Germany), Arnaud Bourdin (Montpellier Cedex 5, France)

**Panel Discussion: Impressions and Implications for Patient Management**
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America), Arnaud Bourdin (Montpellier Cedex 5, France)

**Audience Q&A**
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America), Arnaud Bourdin (Montpellier Cedex 5, France)

**Dupilumab Experience in Practice: Gaining and Sustaining Improvement in Patient Outcomes and HRQoL**
Jonathan Corren (Los Angeles, United States of America), Arnaud Bourdin (Montpellier Cedex 5, France)

**Audience Q&A**
Klaus F. Rabe (Kiel, Germany), Jonathan Corren (Los Angeles, United States of America), Arnaud Bourdin (Montpellier Cedex 5, France)
**Channel 6. Session 172 18:15 - 19:45**

**Industry Virtual Symposium: Connect, confirm, combine in pulmonary arterial hypertension**  
*Organised by Janssen Pharmaceutica NV*  
**Chairs:** Sean Gaine (Dublin, Ireland), Marion Delcroix (Leuven, Belgium)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
<th>Presenter(s)</th>
</tr>
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<tbody>
<tr>
<td>18:15</td>
<td>Welcome and objectives</td>
<td>Sean Gaine (Dublin, Ireland)</td>
</tr>
<tr>
<td>18:23</td>
<td>Connecting and collaborating with expert centres</td>
<td>Pilar Escribano-Subias (Madrid, Spain)</td>
</tr>
<tr>
<td>18:35</td>
<td>Confirming the diagnosis</td>
<td>Harm Jan Bogaard (Amsterdam, Netherlands)</td>
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<tr>
<td>18:55</td>
<td>Combining therapies: Having a “PAH plan”</td>
<td>Luke Howard (London, United Kingdom)</td>
</tr>
<tr>
<td>19:15</td>
<td>Panel discussion with audience Q&amp;A</td>
<td>Sean Gaine (Dublin, Ireland), Pilar Escribano-Subias (Madrid, Spain), Harm Jan Bogaard (Amsterdam, Netherlands), Luke Howard (London, United Kingdom), Marion Delcroix (Leuven, Belgium)</td>
</tr>
<tr>
<td>19:40</td>
<td>Key messages and closing remarks</td>
<td>Marion Delcroix (Leuven, Belgium)</td>
</tr>
</tbody>
</table>

**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>Session Details</th>
<th>Presenter(s)</th>
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<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)

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<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
<th>Presenter(s)</th>
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<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>
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<tr>
<td>Time</td>
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<tr>
<td>20:00</td>
<td>Welcome and introduction</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<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>
<tr>
<td>20:45</td>
<td>Final Discussion, Summary and Close</td>
<td>Francesco Blasi (Milan, Italy)</td>
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</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)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>20:00</td>
<td>Device improvements - What matters in daily practice?</td>
</tr>
<tr>
<td>20:10</td>
<td>Bronchoscopy: Insertion depth, vision, suction in daily bronchoscopic routine</td>
</tr>
<tr>
<td>20:35</td>
<td>A new thoracoscope for the pulmonologist: Patient selection and procedural benefits</td>
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<tr>
<td>21:00</td>
<td>Q&amp;A</td>
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</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>20:00</td>
<td>Patient Identification, Selection, and Timing of Antimicrobial Treatment in the Context of Year 2020 ERS/ATS/ESCMID/IDSA</td>
</tr>
<tr>
<td>20:00</td>
<td>Guideline-Based Therapy for MAC Lung Disease: New Guidance for Treatment of High Risk and Refractory Disease</td>
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<tr>
<td>Time</td>
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<tr>
<td>20:10</td>
<td>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</td>
</tr>
<tr>
<td>20:20</td>
<td>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</td>
</tr>
<tr>
<td>20:30</td>
<td>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”</td>
</tr>
<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>
</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>
</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)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>07:45</td>
<td>Welcome, introductions, meeting objectives and where we are with COVID-19</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>07:55</td>
<td>Patients at risk of COVID-19; what about patients with respiratory chronic conditions?</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>08:05</td>
<td>Treatment of COVID-19 - different for respiratory patients?</td>
<td>Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>08:25</td>
<td>How do we implement our learnings into future respiratory practice?</td>
<td>Alvar Agusti (Barcelona, Spain)</td>
</tr>
<tr>
<td>08:40</td>
<td>Q&amp;A</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>09:10</td>
<td>Summary and conclusion</td>
<td>Tobias Welte (Hannover, Germany), Alvar Agusti (Barcelona, Spain)</td>
</tr>
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</table>

### 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)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>07:45</td>
<td>The severe asthma treatment landscape: how can we push our progress further?</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Tonya Winders (Hendersonville, United States of America)</td>
</tr>
<tr>
<td>08:00</td>
<td>Addressing evidence gaps: the latest data for relegating OCS to a last resort</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>08:15</td>
<td>Transforming care in severe asthma with PRECISION: a US perspective on OCS Stewardship</td>
<td>David Beuther (Denver, United States of America)</td>
</tr>
<tr>
<td>08:30</td>
<td>Reshaping asthma care pathways: practical tools for delivering OCS Stewardship</td>
<td>Janwillem W. H. Kocks (Groningen, Netherlands)</td>
</tr>
<tr>
<td>08:45</td>
<td>Panel discussion and audience Q&amp;A</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Tonya Winders (Hendersonville, United States of America), David Price (Singapore, Singapore), Janwillem W. H. Kocks (Groningen, Netherlands), David Beuther (Denver, United States of America)</td>
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### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>07:45</td>
<td>Introduction</td>
<td>Alberto Papi (Ferrara, Italy)</td>
</tr>
<tr>
<td>07:50</td>
<td>Oxidative stress in chronic respiratory diseases. Homeostasis and Prevention</td>
<td>Alberto Papi (Ferrara, Italy)</td>
</tr>
<tr>
<td>08:10</td>
<td>COVID-19 in patients with lung diseases: management dilemmas</td>
<td>Joan B Soriano (Madrid, Spain)</td>
</tr>
</tbody>
</table>
08:30  Respiratory sequelae of COVID-19: treatment dilemmas  
Luca Richeldi (Roma, Italy)  
1467

08:50  Q&A Live  
Alberto Papi (Ferrara, Italy)  
1468

09:14  Challenges in the management of chronic respiratory diseases during COVID-19 pandemic: full video symposium  
Alberto Papi (Ferrara, Italy)  
1469

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), Karène Valentin  

08:00  Clinical results focused on severe OSA patients, in both the short and long term  
guillaume buiret (, France)  
1470

08:15  Mandibular Advancement Device predictive success factors  
guillaume buiret (, France)  
1471

08:25  Insights into patient experience: equipment process and long-term tolerability  
guillaume buiret (, France)  
1472

08:35  LIVE Q/A session  
guillaume buiret (, France)  
1473

Skills Lab.  
Session 183  
09:00 - 09:45

Industry Skills Lab Workshop: Digital threats in pneumology – Identify, Prepare, Act!  
Organised by Vyaire Medical GmbH  

09:00  Digital threats in pneumology – Identify, Prepare, Act!  
Schmitt Holger, Timo Kosig  
1474

09:35  LIVE Q&A  

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)  

13:00  Introduction  
Kenneth R. Chapman (Toronto (ON), Canada)  
1682

13:05  Physicians, would you know how to ACT?  
Kenneth R. Chapman (Toronto (ON), Canada)  
1683

13:25  A patient perspective on asthma control - not so APPaRENT?  
Kim Lavoie (Montréal (QC), Canada)  
1684

13:40  A call to ACTion – breaking down the barriers to asthma control  
Giorgio Walter Canonica (Milano (MI), Italy)  
1685

13:55  Summary  
Kenneth R. Chapman (Toronto (ON), Canada)  
1686

14:00  Q&A  
Kenneth R. Chapman (Toronto (ON), Canada)  
1687

Channel 2.  
Session 222  
13:00 - 14:30

Industry Virtual Symposium: Epithelial cytokines: fundamental to the pathobiology of asthma  
Organised by AstraZeneca and Amgen  

13:00  

13:05  

13:25  

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14:30  

20.08.2021
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<tr>
<th>Time</th>
<th>Session 223: Industry Virtual Symposium: The Importance of Vaccinating Against Respiratory Tract Infections in Adults</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Welcome and Introductions&lt;br&gt;Christian Theilacker (Berlin, Germany)</td>
</tr>
<tr>
<td>13:05</td>
<td>Adult Pneumococcal Vaccination in an Evolving Landscape&lt;br&gt;Andrea Collins (Cheshire, United Kingdom)</td>
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<tr>
<td>13:25</td>
<td>Pneumococcal Panel Discussion&lt;br&gt;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&lt;br&gt;John McLaughlin (Wayne, United States of America)</td>
</tr>
<tr>
<td>13:55</td>
<td>Covid-19 Question &amp; Answer Session&lt;br&gt;Christian Theilacker (Berlin, Germany), John McLaughlin (Wayne, United States of America)</td>
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<tr>
<td>14:05</td>
<td>Closing Remarks&lt;br&gt;Christian Theilacker (Berlin, Germany)</td>
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<tr>
<th>Time</th>
<th>Session 224: Industry Virtual Symposium: Treating COPD today: Where are the challenges and what are the solutions?</th>
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</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome and introduction&lt;br&gt;Sarah Jarvis (London, United Kingdom)</td>
</tr>
<tr>
<td>13:05</td>
<td>Challenge 1: Recognising the burden of disease&lt;br&gt;Challenge 2: Optimising pharmacological and non-pharmacological interventions&lt;br&gt;Challenge 3: Matching patients and inhalers.&lt;br&gt;Dave Singh (Manchester, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Arschang Valipour (Wien, Austria), Sarah Jarvis (London, United Kingdom)</td>
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<tr>
<td>14:10</td>
<td>Q&amp;A, discussion and closing comments&lt;br&gt;Sarah Jarvis (London, United Kingdom), Dave Singh (Manchester, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Arschang Valipour (Wien, Austria)</td>
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</tbody>
</table>
Industry Virtual Symposium: Inhalation therapy science and climate change: a step forward in asthma

Organised by Novartis Pharma AG

Chairs: David Price (Singapore, Singapore)

**PART 1: Inhaled therapy science: a step forward**

**Welcome and Introduction**
David Price (Singapore, Singapore)

**13:03**
The management cycle: a major advance
Case study: DP invites each speaker to describe their approach to a case study
Christine Jenkins (McMahons Point (NSW), Australia)

**13:13**
Stepping stones to asthma control: inhaled therapy science
Panel Discussion
Kenneth R. Chapman (Toronto (ON), Canada)

**13:28**
Stepping stones to patient centricity: digital science
Panel Discussion
David Price (Singapore, Singapore)

**13:43**
Summary

**PART 2: A greener future for asthma medicine: a step forward**

**Welcome and Introduction**
David Price (Singapore, Singapore)

**13:48**
Stepping stones to greener asthma management
Panel Discussion
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

**14:03**
Stepping stones to greener inhalers: what are the prospects?
Panel Discussion
Kai Michael Beel (Wiesbaden, Germany)

**14:18**
Final discussion

**14:23**
Summary and close
David Price (Singapore, Singapore)

Skills Lab.

**Session 286**

Industry Skills Lab Workshop: High Flow Therapy: beyond gas exchange!

Organised by ResMed

Chairs: Mathieu Delorme (Talence, France), Christian Wabnitz (Basel, Switzerland)

**15:30**
Rationale for Home High-Flow Therapy in chronic patients
Mathieu Delorme (Talence, France)

**15:40**
Introduction and discussion of patient cases using HFT in different settings
Mathieu Delorme (Talence, France)

**15:50**
Presentation of the HFT Solution from ResMed
Christian Wabnitz (Basel, Switzerland)

**16:00**
LIVE Q/A session
Mathieu Delorme (Talence, France), Christian Wabnitz (Basel, Switzerland)

Skills Lab.

**Session 297**

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)
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<tr>
<td>16:30</td>
<td>Welcome and Introduction</td>
<td>Layla Diab Caceres (Madrid, Spain)</td>
<td>2704</td>
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<tr>
<td>16:35</td>
<td>Introduction to the AlphaID™ Tool, Instructions for Use and Important Considerations</td>
<td>Layla Diab Caceres (Madrid, Spain)</td>
<td>2705</td>
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<tr>
<td>17:00</td>
<td>Q&amp;As and Final Discussion, Summary and Close</td>
<td>Layla Diab Caceres (Madrid, Spain)</td>
<td>2706</td>
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<tr>
<td><strong>Skills Lab.</strong></td>
<td><strong>Session 304</strong> 17:30 - 18:15</td>
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<tr>
<td></td>
<td>Industry Skills Lab Workshop: The benefits of Nasal High Flow therapy in COPD patients in the home</td>
<td>Organised by Fisher &amp; Paykel Healthcare</td>
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<tr>
<td></td>
<td><strong>Chairs</strong>: Nicholas Hart (London, United Kingdom), Stefano Nava (Bologna (BO), Italy)</td>
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<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>
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<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>
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<tr>
<td>17:54</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>
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<td>18:06</td>
<td>Question and Answer session</td>
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<td><strong>Channel 1.</strong></td>
<td><strong>Session 310</strong> 18:15 - 19:45</td>
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<td></td>
<td>Industry Virtual Symposium: Mepolizumab: Translating clinical trial evidence to real world patients</td>
<td>Organised by GlaxoSmithKline</td>
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<td></td>
<td><strong>Chairs</strong>: Peter Howarth (Brentford, United Kingdom)</td>
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<tr>
<td>18:15</td>
<td>Welcome</td>
<td>Peter Howarth (Brentford, United Kingdom)</td>
<td>2751</td>
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<tr>
<td>18:25</td>
<td>REALITI-A: 1-year analysis of the global, prospective RWE study</td>
<td>Stephanie Korn (Mainz, Germany)</td>
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<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>
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<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>
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<td>19:15</td>
<td>Closing</td>
<td>Peter Howarth (Brentford, United Kingdom)</td>
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<td><strong>Session 311</strong> 18:15 - 19:45</td>
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<td><strong>Chairs</strong>: Tobias Welte (Hannover, Germany)</td>
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<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>
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<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>
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### 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.*

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<tr>
<td>18:15</td>
<td>Opening remarks</td>
<td>Catharina Moor (Rotterdam, Netherlands)</td>
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<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>
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<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>
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<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>
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<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>
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### 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*

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<tr>
<td>18:15</td>
<td>The changing face of the COVID-19 pandemic</td>
<td>Andrew Ustianowski (Manchester, United Kingdom)</td>
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<tr>
<td>18:25</td>
<td>Pathophysiology and treatment rationales</td>
<td>Andrew Ustianowski (Manchester, United Kingdom), Chidinma Chima-Melton (Los Angeles, United States of America)</td>
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<td>18:40</td>
<td>Trials with antivirals, combination therapies and immunomodulators</td>
<td>Leticia Kawano-Dourado (Sao Paulo, Brazil), Thomas Benfield (Hvidovre, Denmark)</td>
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<tr>
<td>19:00</td>
<td>How can antiviral and combination therapies optimise patient outcomes?</td>
<td>Andrew Ustianowski (Manchester, United Kingdom), Thomas Benfield (Hvidovre, Denmark), Leticia Kawano-Dourado (Sao Paulo, Brazil), Chidinma Chima-Melton (Los Angeles, United States of America)</td>
<td>2768</td>
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<tr>
<td>19:30</td>
<td>Live audience Q&amp;A and meeting close</td>
<td>Andrew Ustianowski (Manchester, United Kingdom), Thomas Benfield (Hvidovre, Denmark), Leticia Kawano-Dourado (Sao Paulo, Brazil), Chidinma Chima-Melton (Los Angeles, United States of America)</td>
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### 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.*

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<tr>
<td>18:15</td>
<td>Welcome and opening remarks</td>
<td>John Haughney (Glasgow, United Kingdom)</td>
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<td>18:25</td>
<td>The human burden of chronic respiratory disease in 2021</td>
<td>Mark L. Levy (London, United Kingdom)</td>
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<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>2772</td>
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<td>18:45</td>
<td>Panel discussion: How can digital inhalers improve respiratory care?</td>
<td>John Haughney (Glasgow, United Kingdom), Mark L. Levy (London, United Kingdom), Nawar Diar Bakerly (Salford (Lancashire), United Kingdom), Monica Fletcher (Cuckfield, United Kingdom)</td>
<td>2773</td>
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<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>2774</td>
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<td>19:10</td>
<td>Closing remarks</td>
<td>John Haughney (Glasgow, United Kingdom), Mark L. Levy (London, United Kingdom), Nawar Diar Bakerly (Salford (Lancashire), United Kingdom), Monica Fletcher (Cuckfield, United Kingdom)</td>
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<td>19:15</td>
<td>Panel discussion and audience Q&amp;A</td>
<td>John Haughney (Glasgow, United Kingdom)</td>
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### 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)

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<tr>
<td>18:15</td>
<td>Does navigation matter for lung cancer diagnosis?</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
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<td>18:45</td>
<td>All-in-one procedure for lung cancer diagnosis and staging</td>
<td>Lonny Yarmus (Baltimore, United States of America)</td>
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<td>19:15</td>
<td>Q&amp;A</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Lonny Yarmus (Baltimore, United States of America)</td>
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### 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)

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<td>20:00</td>
<td>Introduction by the Chairman</td>
<td>Jose Luis López-Campos (Sevilla, Spain)</td>
<td>2780</td>
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<td>20:15</td>
<td>MIRRORing CLARA: a real world study in COPD</td>
<td>Bernd Lamprecht (Linz, Austria)</td>
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<td>20:45</td>
<td>Treating COPD patients in real life settings</td>
<td>Konstantinos Kostiakos (Ioannina, Greece)</td>
<td>2782</td>
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<td>21:15</td>
<td>Conclusions and Q&amp;A</td>
<td>Jose Luis López-Campos (Sevilla, Spain)</td>
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### 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)

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<td>20:00</td>
<td>Session 1: Welcome, introductions and meeting objectives</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Daiana Stolz (Basel, Switzerland)</td>
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<td>20:05</td>
<td>Session 2: Planning for success: Research priorities in AATD</td>
<td>Maria Campos Miranda Duarte Sucena (Porto, Portugal)</td>
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<td>20:15</td>
<td>Session 3: Optimising laboratory diagnosis of AATD</td>
<td>Ilaria Ferrarotti (Pavia (PV), Italy)</td>
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</table>
Felix J.F. Herth (Heidelberg, Germany) |
| 20:35 | Session 1-4: Live Q&A                                                |
| 20:50 | Session 5: Strategies to prevent and manage severe COVID-19           
Dave Singh (Manchester, United Kingdom) |
| 21:10 | Session 5: Live Q&A                                                 |
| 21:25 | Session 6: Summary and closing remarks                               
Felix J.F. Herth (Heidelberg, Germany), Daiana Stolz (Basel, Switzerland) |

**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)

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</table>
| 20:00 | **Summary of the evidence on home HFT for COPD**                     
Dora Triché (Nürnberg, Germany) |
| 20:24 | **HFT in post-COVID patients from hospital to home: experiences from Spain**  
Javier Sayas Catalan (Madrid, Spain) |
| 20:44 | **HFT from hospital to home: experiences from Italy**                
Claudia Crimi (Catania (CT), Italy) |
| 21:04 | **Live Q&A Session**                                                
Miguel R. Gonçalves (Porto, Portugal), Dora Triché (Nürnberg, Germany), Javier Sayas Catalan (Madrid, Spain), Claudia Crimi (Catania (CT), Italy) |

**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)

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<tr>
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</table>
| 20:00 | **Introduction**                                                      
Ekkehard Grünig (Heidelberg, Germany) |
| 20:05 | **Oral treprostinil: insights from FREEDOM studies and practical considerations**  
R James White (Rochester, United States of America) |
| 20:25 | **Parenteral treprostinil: afterload reduction in the early upfront use, hemodynamic and risk reduction effects**  
Roberto Badagliacca (Rome, Italy) |
| 20:45 | **Questions & Answers**                                               
Ekkehard Grünig (Heidelberg, Germany), R James White (Rochester, United States of America), Roberto Badagliacca (Rome, Italy) |

**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*

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</table>
| 20:00 | **Defining Treatable Traits and the True Clinical Burden of Severe Asthma**  
Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler (Milano, Italy) |
| 20:10 | **Transforming Measurements Into Management: Does Exacerbation History Define Treatment Decisions?**  
Andrew Menzies-Gow (London, United Kingdom) |

ERS Virtual International Congress 2021

**INDUSTRY SPONSORED SESSIONS**

**MONDAY 06 SEPTEMBER, 2021**
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<tr>
<td>20:20</td>
<td>Panel Discussion</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler (Milano, Italy)</td>
<td>2802</td>
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<tr>
<td>20:25</td>
<td>Transforming Measurements Into Management: FeNO As a Marker of Type 2 Inflammation in Severe Asthma</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<tr>
<td>20:35</td>
<td>Panel Discussion</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler (Milano, Italy)</td>
<td>2804</td>
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<tr>
<td>20:40</td>
<td>Transforming Measurements Into Management: Moving Beyond Eosinophilia to Type 2 Inflammation in Severe Asthma</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
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<tr>
<td>20:50</td>
<td>Panel Discussion</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Guy Brusselle (Ghent, Belgium), Enrico Marco Heffler (Milano, Italy)</td>
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<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>2807</td>
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</table>
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

07:45 Welcome, introduction and agenda
Christopher Carlsten (Vancouver (BC), Canada)

07:50 2COVID-19, SARS-CoV-2 and air pollution: attempts by epidemiology to connect the dots
Christopher Carlsten (Vancouver (BC), Canada)

08:15 COVID-19, SARS-CoV-2 and air pollution: mechanisms linking COVID-19 with air pollution
Kian Fan Chung (London, United Kingdom)

08:45 Q&A/Discussion
Christopher Carlsten (Vancouver (BC), Canada), Kian Fan Chung (London, United Kingdom), Gary Wong (Shatin, Hong Kong), Sundeep Santosh Salvi (Pune (Maharashtra), India)

09:10 Closing remarks
Christopher Carlsten (Vancouver (BC), Canada)

Channel 4. Session 322 07:45 - 09:15

Industry Virtual Symposium: COVID-19 and lung injury

Organised by Boehringer Ingelheim International GmbH

Chairs: Tobias Welte (Hannover, Germany)

07:45 Welcome and introduction
Tobias Welte (Hannover, Germany)

07:50 Acute lung injury in COVID-19
Tobias Welte (Hannover, Germany)

08:05 Guidelines for the management of patients with COVID-19
Leticia Kawano-Dourado (Sao Paulo, Brazil)

08:20 Challenges in the management of patients post-COVID-19
Andreas Rembert Koczulla (Marburg, Germany)

08:35 Live Q&A
Tobias Welte (Hannover, Germany), Leticia Kawano-Dourado (Sao Paulo, Brazil), Andreas Rembert Koczulla (Marburg, Germany)

Skills Lab. Session 323 09:00 - 09:45


Organised by Pulmonx

Chairs: Pallav L. Shah (London, United Kingdom), Dirk-Jan Slebos (Groningen, Netherlands)

09:00 Introduction: Current knowledge on ELVR
Pallav L. Shah (London, United Kingdom)

09:05 The typical eligible patient (Who, when, where to refer?)
Pallav L. Shah (London, United Kingdom)

09:15 Case studies
Dirk-Jan Slebos (Groningen, Netherlands)

09:30 Q&A Part
Pallav L. Shah (London, United Kingdom), Dirk-Jan Slebos (Groningen, Netherlands)

Channel 1. Session 361 13:00 - 14:30

Industry Virtual Symposium: Eosinophil-driven diseases: An unmet need and clinical challenge

Organised by GlaxoSmithKline
### Welcome
Peter Howarth (Brentford, United Kingdom), Florence Schleich (Liège, Belgium)  

**13:00**

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<td>13:05</td>
<td>Eosinophils in health and disease</td>
<td>Michael E. Wechsler (Denver, United States of America)</td>
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<tr>
<td>13:20</td>
<td>Differential diagnosis of eosinophilic diseases</td>
<td>Florence Roufosse (Brussels, Belgium)</td>
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<tr>
<td>13:35</td>
<td>Overview of a patient journey with eosinophilia</td>
<td>Florence Schleich (Liège, Belgium)</td>
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<td>13:45</td>
<td>Discussion: Differential diagnosis of a patient with eosinophilia</td>
<td>Michael E. Wechsler (Denver, United States of America), Florence Roufosse (Brussels, Belgium), Claire Hopkins (London, United Kingdom), Florence Schleich (Liège, Belgium)</td>
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<tr>
<td>14:00</td>
<td>Closing remarks</td>
<td>Peter Howarth (Brentford, United Kingdom)</td>
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<td>14:05</td>
<td>Q&amp;A</td>
<td>Peter H. Howarth (Southampton (Hampshire), United Kingdom)</td>
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### Channel 2. Session 362 13:00 - 14:00

**Industry Virtual Symposium: Advanced Lung Protection: Hospital to Home**  
*Organised by Philips*

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<td>Advanced Lung Protection from Hospital to Home</td>
<td>Michael Polkey (London, United Kingdom)</td>
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<td>13:05</td>
<td>Hospital Ventilation: Advanced Lung Parameters</td>
<td>Javier Belda (Valencia, Spain)</td>
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<tr>
<td>13:35</td>
<td>Home Mechanical Ventilation: AVAPS-AE</td>
<td>Michael Polkey (London, United Kingdom)</td>
</tr>
</tbody>
</table>

### 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*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>The role of telemedicine during the COVID-19 Pandemic</td>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
</tr>
<tr>
<td>13:24</td>
<td>Live Q&amp;A Session with Sophia Schiza</td>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
</tr>
<tr>
<td>13:29</td>
<td>The value of patient-reported outcomes in CPAP therapy management</td>
<td>Peter A. Cistulli (St Leonards (NSW), Australia)</td>
</tr>
<tr>
<td>13:49</td>
<td>Impact of remote management and patient engagement on CPAP therapy</td>
<td>Adam Benjafied (Sydney, Australia)</td>
</tr>
<tr>
<td>14:09</td>
<td>Live Q&amp;A Session</td>
<td>Ludger Grote (Göteborg, Sweden), Adam Benjafied (Sydney, Australia), Sophia E. Schiza (Heraklion, Greece), Peter A. Cistulli (St Leonards (NSW), Australia)</td>
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### 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*

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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</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

13:00 Opening Remarks
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)

13:05 The Cumulative Burden and Risks of Chronic OCS Use
Enrico Marco Heffler (Milano, Italy)

13:10 Panel Perspectives The Imperative to Minimize OCS Exposure
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)

13:24 A Path to OCS Reduction: Long-Term Evidence of Dupilumab OCS-Sparing Effects
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

13:39 Audience Q&A
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)

13:54 Panel Perspectives Dupilumab in Practice: Clinical Experience in OCS-Dependent Patients
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)

14:10 Audience Q&A
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)

14:25 Closing Remarks
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Enrico Marco Heffler (Milano, Italy), Roland Buhl (Mainz, Germany)

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)

13:00 Welcome video
Dave Singh (Manchester, United Kingdom)

13:01 Introduction and foreword
Dave Singh (Manchester, United Kingdom)

13:06 A key fitting the lock - Role of small airways and extrafine formulations
Monica Kraft (Tucson, United States of America)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
<th>Reference</th>
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<tbody>
<tr>
<td>13:25</td>
<td>Unlocking the potential of inhalation devices</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<td>3065</td>
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<tr>
<td>13:40</td>
<td>Third time's a charm - Role of triple therapy in asthma</td>
<td>Alberto Papi (Ferrara, Italy)</td>
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<tr>
<td>14:00</td>
<td>Q&amp;A</td>
<td>Dave Singh (Manchester, United Kingdom), Monica Kraft (Tucson, United States of America), Omar S. Usmani (London, United Kingdom), Alberto Papi (Ferrara, Italy)</td>
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<td><strong>Skills Lab.</strong></td>
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<td></td>
<td><strong>Session 426</strong> 15:30 - 16:15</td>
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<td></td>
<td>Industry Skills Lab Workshop: EBUS-TBNA and Valve Therapy for Emphysema and Air Leak - Learn with the Experts</td>
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<td><strong>Chairs:</strong> Ralf Eberhardt (Hamburg, Germany)</td>
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<tr>
<td>15:30</td>
<td>Handling all EBUS-TBNA procedure steps safe and efficient</td>
<td>Ralf Eberhardt (Hamburg, Germany)</td>
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<td>4030</td>
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<tr>
<td>15:50</td>
<td>One valve, two therapies - How to place valves step-by-step for optimal procedure outcome</td>
<td>Ralf Eberhardt (Hamburg, Germany)</td>
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<td><strong>Skills Lab.</strong></td>
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<td><strong>Session 437</strong> 16:30 - 17:15</td>
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<tr>
<td></td>
<td>Industry Skills Lab Workshop: Switching from Noninvasive Ventilation to High Flow Therapy</td>
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<td><strong>Chairs:</strong></td>
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<tr>
<td>16:30</td>
<td>NIV and HFT therapy modalities</td>
<td>Carlos Ferrando (Barcelona, Spain)</td>
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<tr>
<td>16:55</td>
<td>V60 Plus demonstration on how to switch from NIV to HFT</td>
<td>Traci Wellington (Brisbane, Australia)</td>
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<td><strong>Skills Lab.</strong></td>
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<td><strong>Session 444</strong> 17:30 - 18:15</td>
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<td></td>
<td>Industry Skills Lab Workshop: Longterm mechanical ventilation: how to achieve clinical benefit</td>
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<td><strong>Organised by <a href="http://www.hul.de">www.hul.de</a></strong></td>
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<td></td>
<td><strong>Chairs:</strong> Matthias Schweibold (Karlsruhe, Germany), Sarah Bettina Schwarz (Köln, Germany)</td>
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<tr>
<td>17:30</td>
<td>How to select patients who benefit from longterm mechanical ventilation, patient interface and initial ventilator setup</td>
<td>Sarah Bettina Schwarz (Köln, Germany)</td>
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<td>4121</td>
</tr>
<tr>
<td>17:48</td>
<td>How to monitor and optimize success in longterm mechanical ventilation</td>
<td>Jesus Gonzalez-Bermejo (, Spain)</td>
<td></td>
<td>4122</td>
</tr>
<tr>
<td>18:06</td>
<td>Solutions to achieve success in longterm mechanical ventilation - a case report</td>
<td>Anne Gruenewald (, Germany)</td>
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<td><strong>Channel 1.</strong></td>
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<td><strong>Session 450</strong> 18:15 - 19:15</td>
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<td></td>
<td>Industry Virtual Symposium: Shifting the boundary in rare diseases: Spotlight on cystic fibrosis</td>
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<td><strong>Organised by Vertex Pharmaceuticals (Europe) Limited</strong></td>
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<tr>
<td>18:15</td>
<td>Chair's welcome: From gene discovery to precision medicine</td>
<td>Stuart Elborn (Belfast (Belfast), United Kingdom)</td>
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<td>4124</td>
</tr>
<tr>
<td>18:23</td>
<td>Drug development in rare diseases: The CF journey</td>
<td>Marcus Mall (Berlin, Germany)</td>
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<td>4125</td>
</tr>
<tr>
<td>18:35</td>
<td>Design and flexibility of clinical trials</td>
<td>Claire Wainwright (Brisbane (QLD), Australia)</td>
<td></td>
<td>4126</td>
</tr>
<tr>
<td>18:47</td>
<td>Evidence generation: Learnings from the real world</td>
<td>Gwyneth Davies (London, United Kingdom)</td>
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<td>4127</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>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>A new paradigm: the therapeutic place of drugs</td>
<td>Sonya Craig (Liverpool, United Kingdom)</td>
</tr>
<tr>
<td>18:30</td>
<td>The Histamine pathway, a new approach</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
</tr>
<tr>
<td>18:45</td>
<td>Clinical cases</td>
<td>Winfried J. Randerath (Solingen, Germany)</td>
</tr>
<tr>
<td>19:00</td>
<td>Q&amp;A</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>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Welcome: Introduction and housekeeping</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>18:21</td>
<td>Personalising treatment in COPD: The case for ICS</td>
<td>Alvar Agusti (Barcelona, Spain)</td>
</tr>
<tr>
<td>18:39</td>
<td>Selecting the appropriate device for personalised management of asthma and COPD</td>
<td>Anna Murphy (Leicester (Leicestershire), United Kingdom)</td>
</tr>
<tr>
<td>18:57</td>
<td>The patient perspective on ICS/formoterol as reliever for mild asthma: Theory and Practice</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>19:15</td>
<td>Live Q&amp;A panel discussion</td>
<td>Eric D. Bateman (Cape Town, South Africa), Alvar Agusti (Barcelona, Spain), Anna Murphy (Leicester (Leicestershire), United Kingdom)</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>
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<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Myths in fibrosing ILDs</td>
<td>Bruno Crestani (Paris, France)</td>
</tr>
<tr>
<td>18:25</td>
<td>Was INBUILD a collection of trials in individual diseases?</td>
<td>Kevin R. Flaherty (Pineckney, United States of America)</td>
</tr>
<tr>
<td>18:40</td>
<td>Do only patients who have a UIP pattern need antifibrotic therapy?</td>
<td>Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:50</td>
<td>Does SSc-ILD progress too slowly to warrant treatment with nintedanib?</td>
<td>Michael Kreuter (Heidelberg, Germany)</td>
</tr>
</tbody>
</table>
### Industry Virtual Symposium: Type 2 Inflammation: Connecting Diseases of the Upper and Lower Airway

**Organised by Sanofi Genzyme and Regeneron**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>18:15</td>
<td>Evaluating All Angles of the Burden of Disease in Patients With CRSwNP</td>
<td>Claire Hopkins (London, United Kingdom)</td>
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<tr>
<td>18:35</td>
<td>Tying Together Type 2 Inflammation in the Upper and Lower Airways</td>
<td>Wytske Fokkens (Amsterdam, Netherlands)</td>
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</tr>
<tr>
<td>18:55</td>
<td>Integrated Care: Managing CRSwNP and Coexisting Upper and Lower Type 2 Inflammatory Airway Diseases</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
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</tr>
<tr>
<td>19:15</td>
<td>Question and Answer</td>
<td>Claire Hopkins (London, United Kingdom), Wytske Fokkens (Amsterdam, Netherlands), Enrico Marco Heffler (Milano, Italy)</td>
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</table>

### Industry Virtual Symposium: Pulmonary Hypertension associated with Interstitial Lung Disease

**Organised by Ferrer**

- **Chairs:** Horst Olschewski (Graz, Austria)

<table>
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<th>Location(s)</th>
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<tbody>
<tr>
<td>18:15</td>
<td>Introduction</td>
<td>Horst Olschewski (Graz, Austria)</td>
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</tr>
<tr>
<td>18:20</td>
<td>Best practices in pulmonary hypertension associated with interstitial lung disease: importance of early referral and diagnosis</td>
<td>David Kelly (Norwich (Norfolk), United Kingdom)</td>
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<tr>
<td>18:40</td>
<td>Pulmonary hypertension associated with interstitial lung disease: current clinical and treatment approach</td>
<td>Steven D Nathan (Falls Church, United States of America)</td>
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<tr>
<td>19:00</td>
<td>Questions &amp; Answers</td>
<td>Horst Olschewski (Graz, Austria), Steven D Nathan (Falls Church, United States of America), David Kelly (Norwich (Norfolk), United Kingdom)</td>
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### Industry Virtual Symposium: What are the challenges and solutions for managing patients with COPD in 2021

**Organised by GlaxoSmithKline**

- **Chairs:** MeiLan K. Han (Ann Arbor, United States of America)

<table>
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<th>Location(s)</th>
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<tbody>
<tr>
<td>20:00</td>
<td>Introduction</td>
<td>MeiLan K. Han (Ann Arbor, United States of America)</td>
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<tr>
<td>20:05</td>
<td>COVID-19 learnings: Remote assessment</td>
<td>Janwillem W. H. Kocks (Groningen, Netherlands)</td>
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<tr>
<td>20:20</td>
<td>Eosinophils in clinical practice</td>
<td>MeiLan K. Han (Ann Arbor, United States of America)</td>
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<tr>
<td>20:33</td>
<td>COPD &amp; bronchiectasis</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<td>20:49</td>
<td>Vaccination</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<tr>
<td>Channel 2.</td>
<td>Session 457</td>
<td>20:00 - 21:30</td>
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<tr>
<td>Industry Virtual Symposium: Detecting Genomic UIP Pattern to Improve ILD Diagnosis</td>
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<tr>
<td><strong>Chairs:</strong> Sangeeta Bhorade (Chicago, United States of America)</td>
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<tr>
<td><strong>20:00</strong> <strong>Introduction</strong></td>
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<tr>
<td>Sangeeta Bhorade (Chicago, United States of America)</td>
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<tr>
<td><strong>20:05</strong> <strong>An Overview of the Diagnostic challenges in ILD</strong></td>
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<td>Luca Richeldi (Roma, Italy)</td>
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<td><strong>20:25</strong> <strong>Clinical validation studies of Envisia Genomic Classifier</strong></td>
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<td>Michael Kreuter (Heidelberg, Germany)</td>
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<tr>
<td><strong>20:45</strong> <strong>Envisia Genomic Classifier Utility in ILD Diagnosis and Prognosis – Patient Cases</strong></td>
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<td>Mary Beth Scholand (Utah, United States of America)</td>
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<tr>
<td><strong>21:05</strong> <strong>Q&amp;A</strong></td>
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<tr>
<td>Sangeeta Bhorade (Chicago, United States of America)</td>
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<tr>
<td><strong>21:25</strong> <strong>Conclusion</strong></td>
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<tr>
<td>Sangeeta Bhorade (Chicago, United States of America)</td>
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<tr>
<th>Channel 3.</th>
<th>Session 458</th>
<th>20:00 - 21:30</th>
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<tbody>
<tr>
<td>Industry Virtual Symposium: Assessment of mandibular movement monitoring with machine learning analysis for the diagnosis of obstructive sleep apnea</td>
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<td><em>Organised by Sunrise</em></td>
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<tr>
<td><strong>Chairs:</strong> Sophia E. Schiza (Heraklion, Greece)</td>
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<tr>
<td><strong>20:00</strong> <strong>Introduction</strong></td>
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<tr>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
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<tr>
<td><strong>20:02</strong> <strong>The physiology of mandibular movement</strong></td>
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<td>Jean-Benoit Martinot (Namur, Belgium)</td>
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<tr>
<td><strong>20:32</strong> <strong>The results of the study published in JAMA Network Open and the general principles behind the technology</strong></td>
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<tr>
<td>Jean-Louis Pépin (Grenoble, France)</td>
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<tr>
<td><strong>20:57</strong> <strong>The Sensapnea projet and study results</strong></td>
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<td>Julia Kelly (London, United Kingdom)</td>
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<tr>
<td><strong>21:07</strong> <strong>Q&amp;A</strong></td>
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<tr>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
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<tr>
<th>Channel 4.</th>
<th>Session 459</th>
<th>20:00 - 21:30</th>
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<tbody>
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<td>Industry Virtual Symposium: Asthma and COPD management – where are we now, and where could we be in the future?</td>
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<td><em>Organised by Teva Pharmaceuticals Europe B.V.</em></td>
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<td><strong>Chairs:</strong> Peter J. Barnes (London, United Kingdom)</td>
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<td><strong>20:00</strong> <strong>Introduction</strong></td>
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<td>Peter J. Barnes (London, United Kingdom)</td>
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<td><strong>20:05</strong> <strong>Asthma and COPD management in 2021</strong></td>
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<td>20:15</td>
<td>Improving our standards of severe asthma management</td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
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<td>Panel discussion: Present and future care for respiratory diseases – how can we raise the bar?</td>
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<td>20:40</td>
<td>The digital age: The future of respiratory disease care</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
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<td>20:55</td>
<td>Closing remarks</td>
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<td>21:00</td>
<td>Panel discussion, audience Q&amp;A and close</td>
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