WELCOME FROM THE CONFERENCE CHAIR

I am delighted to welcome you to the first ever ERS Respiratory Failure and Mechanical Ventilation Conference. This exciting event has been developed around a combination of cutting-edge scientific sessions and interactive educational content, and as conference chair it is a true pleasure to be able to offer this to our members and healthcare professionals.

The conference programme has been developed around three main tracks - adult acute respiratory failure, chronic respiratory failure and paediatric respiratory failure. We have listened to feedback from participants of other ERS courses and our organising committee have designed topic areas with the delegates’ needs at the forefront of their thinking. This was no easy task to ensure that the requirements of pulmonologists, paediatricians, intensivists and other professionals working in critical care were catered for. However, we are confident that the programme will provide something for everyone.

I would also like to encourage delegates to utilise choice during your time at the conference. You are welcome to follow a particular track throughout, however the flexibility of the conference means that you are free to attend any session from the programme if this better matches your interests.

You will find a focus on interactive sessions, and this will include the ability to participate in hands-on practical skills sessions and presentations of original research and case reports. Additionally, the conference will provide you with access to the experts in the field.

Furthermore, the conference will also provide invaluable networking opportunities within the community. Personally, I find the chance for knowledge exchange and ideas sharing with colleagues and peers to be a key element in contributing to professional development. Throughout the conference programme you will have the chance to personally meet the experts in the field.

I would like to thank those of you who have submitted cases and abstracts for presentation or discussion at the event. Your contributions are vital in making the content of the conference relevant and beneficial for participants.

Our host city is a diverse and vibrant European capital and is a fitting venue for what promises to be a stimulating and successful event. I look forward to welcoming you to Berlin.

Leo Heunks
Conference chair
OVERVIEW PROGRAMME
THURSDAY, 13.02.2020

Rooms

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<th>Alexander I</th>
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<th>Friedrich Wilhelm</th>
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08:00-10:00
OPENING SESSION
Understanding respiratory physiology
**LIVE**

10:00-10:30 Break

10:30-12:00

**SYMPOSIUM**
Pediatric mechanical ventilation recommendations
**LIVE**

**SYMPOSIUM**
Getting the basic right
**LIVE**

**SYMPOSIUM**
Non-invasive ventilation (NIV) in neuromuscular disorders
**LIVE**

12:00-12:50 Lunch Break

12:50-14:00

**CASE BASED**
Monitoring of mechanical ventilation in children
**LIVE**

**CASE BASED**
Monitoring the ventilated patient
**LIVE**

**CASE BASED**
Noninvasive ventilation - practical aspects
**LIVE**

14:00-15:10
**ORAL POSTER**
Invasive mechanical ventilation
**LIVE**

**INDUSTRY SYMPOSIUM**
Breas Ventilator integrated polygraphy: The latest monitoring solutions for NIV
**LIVE**

**ORAL POSTER**
Chronic noninvasive ventilation
**LIVE**

**ORAL POSTER**
High flow nasal therapy and respiratory muscles
**LIVE**

14:00-15:15 Break

15:30-17:30
**PRO/CON Debate**
Controversies in patients with acute respiratory failure
**LIVE**

14:10-16:30
**SKILLS WORKSHOP**
Respiratory monitoring

*additional registration required
OVERVIEW PROGRAMME
FRIDAY, 14.02.2020

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08:00-09:30

**SYMPOSIUM**
- Specific ventilation strategies in children  
- Mechanical ventilation in specific cases  
- Non-invasive ventilation (NIV) in COPD

09:30-10:00 Break

10:00-12:00

**SYMPOSIUM**
- Adverse effects of mechanical ventilation

12:00-13:00 Lunch Break

13:00-14:00

**MEET THE EXPERT**
- Weaning failure in children  
- The practice of sedation in critically ill patients  
- Sleep-related hypoventilation

14:10-15:10

**ORAL POSTER DISCUSSION**
- Acute noninvasive ventilation  
- Fisher & Paykel Healthcare: High flow therapy: A paradigm shift from oxygen therapy to respiratory support  
- Chronic obstructive pulmonary disease  
- Paediatrics and Quality of life

14:15-15:15 Break

15:15-17:15

**SYMPOSIUM**
- Noninvasive ventilation and high flow therapy (HFNT)  
- Prolonged weaning

17:30-19:00

**INDUSTRY SYMPOSIUM**
- Philips: Advances in NIV therapy

09:45-12:05

**SKILLS WORKSHOP**
- How to set the ventilator based on individual conditions

08:00-09:30

**SYMPOSIUM**
- Specific ventilation strategies in children

14:10-15:10

**ORAL POSTER DISCUSSION**
- Acute noninvasive ventilation

14:10-16:30

**SKILLS WORKSHOP**
- How to set the ventilator based on individual conditions

*additional registration required
# OVERVIEW PROGRAMME

## SATURDAY, 15.02.2020

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*additional registration required
VENUE MAP

Connection between session rooms, Restaurants, Exhibition and Coffee Break Area

Alexander 1
Alexander 2
Alexander 3
Grenander 1
Grenander 2-3-4
Restaurants
Lunch
Registration
H2
Restaurant
Lunch
H4
Restaurant
Lunch
Friedrich Wilhelm
This information was up-to-date on 12 February 2020
08:00 - 10:00

**Symposium: Opening session: Understanding respiratory physiology**

**Aims:** To provide an introduction of respiratory physiology.

**Disease(s):** [Adult acute respiratory failure], [Chronic respiratory failure], [Paediatric respiratory failure]

**Target audience:** Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Scientist, Student

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

- **08:00** Welcome and introductory word by the Conference Chair
  Leo Heunks (Amsterdam, Netherlands)

- **08:05** European Lung Foundation - Video

- **08:10** History of mechanical ventilation
  Martin J. Tobin (Hines, United States of America)

- **08:40** Basics of respiratory drive and respiratory mechanics
  Leo Heunks (Amsterdam, Netherlands)

- **09:20** Impaired gas exchange
  Stefano Nava (Bologna BO, Italy)

10:30 - 12:00

**Symposium: Paediatric mechanical ventilation recommendations**

**Aims:** To receive an update on the most recent recommendations and data on mechanical ventilation in children and preterms and paediatric acute respiratory distress syndrome (ARDS).

**Disease(s):** [Paediatric respiratory failure]

**Target audience:** Emergency medicine doctor, Intensivist/critical care physician, Neonatologist, Paediatrician, Pulmonologist, Researcher, Respiratory physician, Respiratory therapist, Sleep specialist/technologist

**Chairs:** Linda Corel (Rotterdam, Netherlands), Christopher Milesi (Montpellier, France)

- **10:30** Recommendations for mechanical ventilation in children

- **10:30** Recommendations for mechanical ventilation in preterms
  Hendrik Fischer (Berlin, Germany)

- **11:30** Ventilation strategies in paediatric ARDS: are they different in children as compared to adults?
  Guillaume Emeriaud (Montreal, Canada)

10:30 - 12:00

**Symposium: Getting the basic right**

**Different modes of ventilation**

**Aims:** To learn the different modes of ventilation.

**Disease(s):** [Adult acute respiratory failure]

**Target audience:** Anaesthesiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Respiratory physician, Trainee

**Chairs:** Lieuwe Bos (Amsterdam, Netherlands), Lara Pisani (Bologna BO, Italy)

- **10:30** Controlled ventilator modes
  Paolo Navalesi (Padova, Italy)

- **11:00** Partially supported modes
  Lise Piquilloud (Lausanne, Switzerland)

- **11:30** NIV modes: different from IMV
  Elise Morawiec (Paris, France)
10:30 - 12:00

**Symposium: Noninvasive ventilation (NIV) in neuromuscular disorders**

**Aims:** To elucidate developments in mechanical ventilation in patients with neuromuscular disorders.

**Disease(s):** Chronic respiratory failure, Paediatric respiratory failure

**Target audience:** Anaesthesiologist, Clinician, Intensivist/critical care physician, Junior member, Nurse, Paediatrician, Patient, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist

**Chairs:** Wolfram Windisch (Cologne, Germany), Martí Pons Òdena (Barcelona, Spain)

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<th>Time</th>
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<tr>
<td>10:30</td>
<td>Role of neuromuscular diseases in pulmonary medicine</td>
<td>Wolfram Windisch (Cologne, Germany)</td>
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<td>11:00</td>
<td>NIV in rapidly progressive diseases: when to start?</td>
<td>Anita Simonds (London, United Kingdom)</td>
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<td>11:30</td>
<td>Cough assisting</td>
<td>Peter J. Wijkstra (Groningen, Netherlands)</td>
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12:50 - 14:00

**Case-based session: Noninvasive ventilation - practical aspects**

**Aims:** To approach different scenario in which volume-target ventilation may clearly improve efficacy of ventilation and understand possible limits and traps of different algorithms and ventilators used; To discuss the application of other tools in alternative to long-term NIV.

**Disease(s):** Chronic respiratory failure

**Target audience:** Clinician, Physiotherapist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Sleep specialist/technologist

**Chairs:** Friederike Sophie Magnet (Köln, Germany)

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<td>12:50</td>
<td>Target volume ventilation: when and how?</td>
<td>Cesare Gregoretti (Palermo, Italy)</td>
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<td>13:05</td>
<td>Case presentation: Advanced Physiological Monitoring during COPD Exacerbation and Nasal High-Flow Administration</td>
<td>Rebecca D'Cruz (London, United Kingdom)</td>
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<td>Case presentation: Neuromuscular Disorders, a day-to-day challenge</td>
<td>Joana Batista Correia (Viseu, Portugal)</td>
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<td>13:30</td>
<td>Case presentation: NIV-induced neck lymphoedema in OSA-COPD overlap syndrome: a case report</td>
<td>Ivana Paranicova (Košice, Slovakia)</td>
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<td>13:45</td>
<td>Alternatives to long-term NIV</td>
<td>Lara Pisani (Bologna (BO), Italy)</td>
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12:50 - 14:00

**Case-based session: Monitoring of mechanical ventilation in children**

**Aims:** To provide participants with practical information on the monitoring of mechanical ventilation in children and its usefulness.

**Disease(s):** Paediatric respiratory failure

**Target audience:** Clinician, Emergency medicine doctor, Intensivist/critical care physician, Neonatologist, Paediatrician, Pulmonologist, Respiratory physician, Sleep specialist/technologist

**Chairs:** Christopher Milesi (Montpellier, France)

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<td>12:50</td>
<td>Monitoring of invasive ventilation</td>
<td>Guillaume Emeriaud (Montreal, Canada)</td>
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<td>13:25</td>
<td>Patient-ventilator interaction: assessment and clinical relevance</td>
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12:50 - 14:00

Case-based session: Monitoring the ventilated patient

Aims: To learn about advanced respiratory mechanics and monitoring of ARDS patients.

Disease(s): Adult acute respiratory failure

Target audience: Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

Chairs: Alexandre Demoule (Paris, France)

12:50 Advanced respiratory mechanics
Leo Heunks (Amsterdam, Netherlands)

13:00 Case presentation: A case of life threatening asthma and pneumomediastinum
Khaled Hussein (Assiut, Egypt)

13:10 Case presentation: A fatal endobronchial mucormycosis mimicking as endobronchial tuberculosis
Hae-Seong Nam (Incheon, Republic of Korea)

13:20 Case presentation: Acute respiratory failure due to hypoventilation associated to diaphragmatic disfunction
Sónia Isabel Silva Guerra (Viseu, Portugal)

13:30 Case presentation: Respiratory insufficiency in a patient with rare mitochondrial myopathy T>C transition at position 13271 in MTND5 gene
Sankanika Roy (Asian/Asian British, United Kingdom)

13:40 Case presentation: Acute Flaccid Paralysis by Enterovirus D68 Infection-the beginning of Polio epidemic?
Syeda Nafisa (Nottingham, United Kingdom)

13:50 ARDS: state of the art
Lieuwe Bos (Amsterdam, Netherlands)

15:30 - 17:30

Pro and con debate: Controversies in patients with acute respiratory failure

Aims: To tackle three different controversial issue in the treatment of acute de novo respiratory failure, like the utility and effectiveness of steroid therapy, the rationale for performing lung biopsy in ARDS and finally the potential danger and utility of NIV to treat de novo respiratory failure.

Disease(s): Adult acute respiratory failure

Target audience: Anaesthesiologist, Intensivist/critical care physician, Junior member, Pulmonologist, Respiratory therapist

Chairs: Lise Piquilloud (Lausanne, Switzerland)

15:30 PRO - Lung biopsy in ARDS
Lieuwe Bos (Amsterdam, Netherlands)

15:40 CON - Lung biopsy in ARDS
Christian Karagiannidis (Cologne, Germany)

15:50 Discussion

16:10 PRO - NIV in acute hypoxemic failure
Paolo Navalesi (Padova, Italy)

16:20 CON - NIV in acute hypoxemic failure
Alexandre Demoule (Paris, France)

16:30 Discussion

16:50 PRO - Steroids in ARDS
Stefano Nava (Bologna (BO), Italy)

17:00 CON - Steroids in ARDS
Pieter Roel Tuinman (Amsterdam, Netherlands)

17:10 Discussion
10:15 - 12:35

Skills workshop: Respiratory monitoring

**Aims:** To learn to visualize the diaphragm and the lung using ultrasound and how it can help in diagnosis of respiratory failure; to know the practical aspects of esophageal balloon insertion can how esophageal balloon can help in medical decision making; to learn the interpretation of signals derived from esophageal balloon.

**Disease(s):** Adult acute respiratory failure

**Target audience:** Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist

**Chairs:** Alexandre Demoule (Paris, France)

**Introduction**

**Diaphragm ultrasound**
Pieter Roel Tuinman (Amsterdam, Netherlands)

**Lung ultrasound**
Martin Dres (Paris, France)

**Esophageal balloon for monitoring breathing effort and transpulmonary pressure**
Heder de Vries (Amsterdam, Netherlands)

14:10 - 16:30

Skills workshop: Respiratory monitoring

**Aims:** To learn to visualize the diaphragm and the lung using ultrasound and how it can help in diagnosis of respiratory failure; to know the practical aspects of esophageal balloon insertion can how esophageal balloon can help in medical decision making; to learn the interpretation of signals derived from esophageal balloon.

**Disease(s):** Adult acute respiratory failure

**Chairs:** Pieter Roel Tuinman (Amsterdam, Netherlands)

**Introduction**

**Diaphragm ultrasound**
Elise Morawiec (Paris, France)

**Lung ultrasound**
Lara Pisani (Bologna (BO), Italy)

**Esophageal balloon for monitoring breathing effort and transpulmonary pressure**
Heder de Vries (Amsterdam, Netherlands)

14:10 - 15:10

Oral poster discussion: Chronic noninvasive ventilation

**Disease(s):** Chronic respiratory failure

**Chairs:** Peter J. Wijkstra (Groningen, Netherlands), Marieke L. Duiverman (Groningen, Netherlands)

**Adaptation to noninvasive ventilation in an outpatient setting: our experience**
Carla Ribeiro (Porto, Portugal), Carla Nogueira, Daniela Ferreira, Sara Conde

**Does tracheostomy ventilation in MND in the UK lead to improved survival?**
Jonathan Palmer (Plymouth (Devon), United Kingdom), Bhuvaneswari Kathiresan, Ben Messer, Michelle Ramsay

**Home invasive mechanical ventilation in Finland 2015-2019**
Petra Kotanen (Espoo, Finland), Hanna-Riikka Kreivi, Pirkko Brander, Walteri Siirala

**Incidence of chest infections (CI) in patients with neuromuscular disease (NMD) in the first 2 weeks after commencement of Non-invasive Ventilation (NIV) or Mechanical In-Exsufflation (MI-E)**
Liam Campbell (Newcastle Upon Tyne (Tyne and Wear), United Kingdom), Ben Messer

**Is there a risk to home mechanical ventilation patients who are issued with previously used room air ventilators?**
Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Ben Messer
Management of Home Mechanical Ventilation (HMV) patients admitted in Hypercapnic Respiratory Failure (HRF): reported confidence versus practice
Katherine George (Wylam, United Kingdom), Liam Campbell, Katherine George

Measuring adherence to long-term assisted ventilation
Caroline Chao (Melbourne (VIC), Australia), Linda Rautela, Luke Mcdonald, David Berlowitz, Simon Conti, Mark Howard, Linda Rautela, Caroline Chao, Nicole Sheers

Pneumothorax in neuromuscular disease associated with lung volume recruitment and mechanical insufflation-exsufflation
David Berlowitz (Melbourne (VIC), Australia), Luke Mcdonald, Mark Howard, Linda Rautela, Caroline Chao, Nicole Sheers

Predictors of home use of mechanical insufflation/exsufflation devices: preliminary results from a cross-sectional study
Georgia Mitropoulou (Prilly, Switzerland), Raphael Heinzer, Maura Prella

Updated guidelines for indication of non-invasive positive pressure ventilation (NIPPV) in Slovakia
Pavol Pobeha (Košice, Slovakia), Imrich Mucska, Róbert Vyšehradský, Marta Hájková, Juraj Jakubík, Ivana Parani ová, Pavol Joppa

14:10 - 15:10
Oral poster discussion: High flow nasal therapy and respiratory muscles

Disease(s): Adult acute respiratory failure, Chronic respiratory failure, Paediatric respiratory failure

Chairs: Paolo Navalesi (Padova, Italy), Lieuwe Bos (Amsterdam, Netherlands)

High flow nasal cannula (HFNC) vs. non-invasive ventilation in severe pneumonia patients with OHS: A prospective study
BoXue Han (Beijing, China), Banghe Li, Ying Wang, Yan Hao, Guofeng Hou, Feng Wang, Jiquan Zhang, Jie Bai, Jinqing Chang, Guangping Lv, Yongxu Chen, Xincheng Qiu

How long should clinicians wait to stop a trial of humidified oxygen via high flow nasal cannula in "de novo" respiratory failure?
Lígia Helena Pires Vicente (Portimão, Portugal), Joao Estevao, Pedro Americano, Daniela Silva, Gloria Cabral Campello

Is the high flow changing the indications of RICU?
Antoni Marin Muñiz (Badalona (Barcelona), Spain), Irene Aldás Criado, Maria Sol Prats Bardaji, Jorge Abad Capa, Antoni Rosell Gratacós

Nasal humidified high flow oxygen prolongs endurance exercise in interstitial lung disease.
Frédéric Hérengt (Dieulefit, France), Daniel Veale, Yara Al Chikhanie, Samuel Vergès

The utility of high-flow nasal cannula ROX index in post-extubation respiratory failure
szuying Liu (Newtaipei city, Taiwan), yenwei shao, Tejung Chia

Diaphragm thickening fraction versus transdiaphragmatic pressure in healthy subjects and ventilated patients: a breath-by-breath analysis
Thomas Poulard (Paris Cedex 13, France), Quentin Fossé, Jean-Luc Gennisson, Marie-Cécile Niérat, Jean-Yves Hogrel, Thomas Similowski, Alexandre Demoule, Damien Bachasson, Martin Dres

Diaphragm ultrasound and respiratory functional test: a combined approach in amyotrophic lateral sclerosis
Letizia D’Antoni (Guidonia Montecelio (RM), Italy), Antonella Sotgiu, Fausta Viccaro, Krisstopher Richard Flores, Ernesto Di Biaso, Paolo Palange

Measurement validity of an electronic inspiratory loading device during inspiratory muscle training in weaning failure patients
Marine Van Hollebeke (Leuven, Belgium), Diego Poddighe, Beatrix Clerckx, Greet Hermans, Rik Gosselink, Daniel Langer

Temporary transvenous diaphragmatic neurostimulation distributes tidal volume in a more physiological pattern versus mechanical ventilation alone.
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Marlena Ornowska, Michelle Nicholas, Steven Reynolds

The utility of esophageal pressure measurement in acute hypercapnic respiratory failure due to severe COPD exacerbation requiring NIV
Alexandrdu Tudor Steriade (Bucuresti, Romania), Mihai Gologanu, Daniela Necula, Nicoleta Sargorovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacce
Ultrasound shear wave elastography for non-invasive assessment of diaphragm activity in mechanically ventilated patients.
Quentin Fossé (Paris, France), Thomas Poulard, Jean Yves Hogrel, Jean Luc Gennisson, Thomas Similowski, Alexandre Demoule, Marie Cécile Niérat, Damien Bachasson, Martin Dres

Oral poster discussion: Invasive mechanical ventilation

Disease(s): Adult acute respiratory failure

Chairs: Cesare Gregoretti (Palermo, Italy), Leo Heunks (Amsterdam, Netherlands)

Effects of BMI on clinical outcomes in acute respiratory failure requiring invasive mechanical ventilation
Omar Mahmoud (New York, United States of America), Bing Chen, Abhishek Chakraborti

Esterification of iloprost enhances its protective effects on pulmonary endothelium
Konstantin Birukov (Baltimore, United States of America), Yunbo Ke, Yue Li, Kamoltip Promnares, Anna Birukova

Focus group on mechanical in- exsufflation in invasively ventilated intensive care patients.
Willemke Stilma (Amsterdam, Netherlands), Frederique Paulus, Marcus Schultz, Bea Spek, Wilma Scholte Op Reimer, Louise Rose

Influence and complications of tracheotomy on V-V ECMO: a 10-year analysis
Christoph Fisser (Regensburg, Germany), Patricia Lüdtke, Andreas Lüdtke, Matthias Lubnow, Maximilian V. Malfertheiner, Alois Philipp, Maik Foltan, Dirk Lunz, Thomas Müller

Predictive factors of noninvasive ventilation failure for acute exacerbation of COPD
Maria Joao Freitas Ferreira Araújo (Guimarães, Portugal), Rita Ortiga, Diana Pimenta, Ana Luísa Vieira, Lurdes Ferreira

Role of the advanced device with auto-titrating EPAP in ARDS patients
BoXue Han (Beijing, China), Lishun Yue, Maoliang Tian, Lei Sun, Zhiqiang Zhao, Fuzhou Liu, Hui Liu

Scores of community acquired pneumonia for predicting intensive care admission and mortality
Lamia Shaaban (Assiut, Egypt), Mohamed Metwally, Eman Monazea

Signaling in vascular endothelium by varying degrees of mechanical stretch
Anna Birukova (Baltimore, United States of America), Pratap Karki, Chen-Ou Zhao, Yunbo Ke, Konstantin Birukov

The association of subglottic secretion drainage and tracheal mucosa injury
YiaTing Li (Taichung, Taiwan), Wang Yaochen
### 08:00 - 09:30

#### Live streamed

**Symposium: Noninvasive ventilation (NIV) in COPD**

**Aims:** To provide an overview of current evidence about different aspects of long-term NIV applied to hypercapnic COPD patients: which are the goals of ventilation? How to “personalise” the therapy and how to make a good patient selection? To discuss the results of the recent task force on long-term NIV in COPD.

**Disease(s):** [Chronic respiratory failure](#)

**Target audience:** Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Physiotherapist, Pulmonologist, Respiratory physician, Respiratory therapist, Sleep specialist/technologist

**Chairs:** Peter J. Wijkstra (Groningen, Netherlands), Wolfram Windisch (Cologne, Germany)

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<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Location</th>
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<tr>
<td>08:00</td>
<td>Patient selection</td>
<td>Nicholas Hart</td>
<td>(London, United Kingdom)</td>
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<td>08:30</td>
<td>What are the targets?</td>
<td>Marieke L. Duiverman</td>
<td>(Groningen, Netherlands)</td>
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<tr>
<td>09:00</td>
<td>ERS Task Force on long-term NIV in COPD</td>
<td>Wolfram Windisch</td>
<td>(Cologne, Germany)</td>
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### 08:00 - 09:30

#### Live streamed

**Symposium: Specific ventilation strategies in children**

**Aims:** To provide an update on specific ventilation strategies.

**Disease(s):** [Paediatric respiratory failure](#)

**Target audience:** Anaesthesiologist, Emergency medicine doctor, Intensivist/critical care physician, Neonatologist, Paediatrician, Pulmonologist, Respiratory therapist, Sleep specialist/technologist

**Chairs:** Linda Corel (Rotterdam, Netherlands), Paolo Navalesi (Padova, Italy)

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<td>08:00</td>
<td>NAVA</td>
<td>Guillaume Emeriaud</td>
<td>(Montreal, Canada)</td>
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<tr>
<td>08:30</td>
<td>ECMO</td>
<td>Martí Pons Òdena</td>
<td>(Barcelona, Spain)</td>
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<tr>
<td>09:00</td>
<td>High flow nasal cannula in acute and chronic respiratory failure</td>
<td>Christopher Milesi</td>
<td>(Montpellier, France)</td>
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### 08:00 - 09:30

#### Live streamed

**Symposium: Mechanical ventilation in specific cases**

**Aims:** To learn IMV strategies in different chronic pulmonary diseases.

**Disease(s):** [Adult acute respiratory failure](#)

**Target audience:** Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

**Chairs:** Marcus Schultz (Amsterdam, Netherlands), Lara Pisani (Bologna (BO), Italy)

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<tr>
<td>08:00</td>
<td>Mechanical ventilation in obstructive lung disease</td>
<td>Lise Piquilloud</td>
<td>(Lausanne, Switzerland)</td>
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<tr>
<td>08:30</td>
<td>Mechanical ventilation in interstitial lung disease</td>
<td>Martin Dres</td>
<td>(Paris, France)</td>
</tr>
<tr>
<td>09:00</td>
<td>Ventilation strategies during weaning</td>
<td>Nicholas Hart</td>
<td>(London, United Kingdom)</td>
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### 10:00 - 12:00

#### Live streamed

**Symposium: Adverse effects of mechanical ventilation**

**Aims:** To understand how mechanical ventilation may induce hair and which organs / tissues are at risk.
**Disease(s):** Adult acute respiratory failure, Chronic respiratory failure, Paediatric respiratory failure

**Target audience:** Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist

**Chairs:** Paolo Navalese (Padova, Italy), Lara Pisani (Bologna (BO), Italy)

**10:00**
- **Heart - lung interaction**
  Pieter Roel Tuinman (Amsterdam, Netherlands)

**10:30**
- **Ventilator - induced lung injury**
  Marcus Schultz (Amsterdam, Netherlands)

**11:00**
- **Ventilator induced respiratory muscle injury**
  Alexandre Demoule (Paris, France)

**11:30**
- **Long-term consequences of mechanical ventilation**
  Sangeeta Mehta (Toronto, Canada)

---

**15:15 - 17:15 Live streamed**

**Symposium: Noninvasive ventilation and high flow nasal therapy (HFNT)**

**Aims:** To describe the indications and standards of practice for NIV and HFNO in different clinical situations.

**Disease(s):** Adult acute respiratory failure

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

**Chairs:** Leo Heunks (Amsterdam, Netherlands), Lise Piquilloud (Lausanne, Switzerland)

**15:15**
- **The role of high flow nasal oxygen therapy in hypoxemic respiratory failure**
  Elise Morawiec (Paris, France)

**15:35**
- **NIV in hypercapnic acute respiratory failure: COPD**
  Stefano Nava (Bologna (BO), Italy)

**15:55**
- **NIV in hypercapnic acute respiratory failure: non-COPD**
  Paolo Navalese (Padova, Italy)

**16:15**
- **High flow nasal therapy in hypercapnic acute respiratory failure**
  Alexandre Demoule (Paris, France)

**16:35**
- **NIV use post-extubation**
  Laurent Brochard (Toronto (ON), Canada)

**16:55**
- **NIV in palliative care**
  Anita Simonds (London, United Kingdom)

---

**15:15 - 17:15 Live streamed**

**Symposium: Prolonged Weaning**

**Aims:** To focus on the specific group of patients with prolonged weaning.

**Disease(s):** Adult acute respiratory failure, Chronic respiratory failure

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Epidemiologist, Fellow, Intensivist/critical care physician, Junior member, Physiotherapist, Psychologist, Public health official, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Social worker, Student, Trainee

**Chairs:** Nicholas Hart (London, United Kingdom), Sarah Schwarz (Köln, Germany)

**15:15**
- **Weaning in long-term acute care hospitals**
  Martin J. Tobin (Hines, United States of America)

**15:55**
- **Treatment strategies**
  Nicholas Hart (London, United Kingdom)

**16:35**
- **Unsuccessful weaning: what comes next?**
  Friederike Sophie Magnet (Köln, Germany)
13:00 - 14:00

Meet the Expert: Weaning failure in children

**Aims:** To discuss the therapeutic options in case of weaning from invasive and noninvasive ventilation.

**Disease(s):** Paediatric respiratory failure

**Target audience:** Intensivist/critical care physician, Paediatrician, Pulmonologist, Respiratory physician, Respiratory therapist

**13:00**

Weaning failure in children

Marti Pons Odèna (Barcelona, Spain)

13:00 - 14:00

Meet the Expert: Sleep-related hypoventilation

**Aims:** To understand strategies in diagnosis and treatment in patients with sleep-related hypoventilation.

**Disease(s):** Chronic respiratory failure

**Target audience:** Anaesthesiologist, General practitioner, Intensivist/critical care physician, Junior member, Nurse, Otolaryngologist, Paediatrician, Patient, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Student, Trainee

**13:00**

Sleep-related hypoventilation

Marieke L. Duiverman (Groningen, Netherlands)

13:00 - 14:00

Meet the Expert: The practice of sedation in critically ill patients

**Aims:** To learn how to assess the status of the patient; to assess the level of sedation; to know the use of different kind of drugs to sedate the patients (i.e. sedation vs analgesia); to understand the practice of sedation during invasive and noninvasive ventilation.

**Disease(s):** Adult acute respiratory failure

**Target audience:** Anaesthesiologist, Emergency medicine doctor, Intensivist/critical care physician, Physiotherapist, Respiratory physician, Respiratory therapist

**13:00**

The practice of sedation in critically ill patients

Sangeeta Mehta (Toronto, Canada)

09:45 - 12:05

Skills workshop: How to set the ventilator based on individual conditions

**Aims:** To address practical aspects of non-invasive ventilation; to address problem-solving strategies in case of individual problems occurring during NIV-commencement; to provide recommendations for handling NIV-patients with specific emphasis on the underlying condition.

**Disease(s):** Chronic respiratory failure

**Target audience:** Anaesthesiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Nurse, Paediatrician, Pulmonologist, Resident, Respiratory physician, Respiratory therapist

**Chairs:** Wolfram Windisch (Cologne, Germany)

**09:45**

How to assess sleep quality during NIV

Nicholas Hart (London, United Kingdom)

**09:45**

How to establish high-intensity NIV in COPD

Sarah Schwarz (Köln, Germany), Gerrie Bladder (Groningen, Netherlands)

**09:45**

How to use transcutaneous CO2 monitoring for long-term NIV

Friederike Sophie Magnet (Köln, Germany)

**09:45**

What is necessary for neuromuscular patients in addition to NIV? Use of cough assist devices

Anita Simonds (London, United Kingdom)

14:10 - 16:30

Skills workshop: How to set the ventilator based on individual conditions
Aims: To address practical aspects of non-invasive ventilation; to address problem-solving strategies in case of individual problems occurring during NIV-commencement; to provide recommendations for handling NIV-patients with specific emphasis on the underlying condition.

Disease(s): **Chronic respiratory failure**

Chairs: Heder de Vries (Amsterdam, Netherlands)

14:10 How to assess sleep quality during NIV
Jean-Paul Janssens (Genève, Switzerland)

14:10 How to establish high-intensity NIV in COPD
Mariake L. Duiverman (Groningen, Netherlands), Gerrie Bladder (Groningen, Netherlands)

14:10 How to use transcutaneous CO2 monitoring for long-term NIV
Christian Karagiannidis (Cologne, Germany)

14:10 What is necessary for neuromuscular patients in addition to NIV? Use of cough assist devices
Peter J. Wijkstra (Groningen, Netherlands)

14:10 - 15:10 Oral poster discussion: Acute noninvasive ventilation

Disease(s): **Adult acute respiratory failure**

Chairs: Stefano Nava (Bologna (BO), Italy), Martin Dres (Paris, France)

Assessment of non-invasive ventilation in acute severe asthma patients
Mohamed M. Metwally (Assiut, Egypt), Olfat Elshinnawy, Nermeen Abdelaleem, Walaa Mokhtar

Comparison of AVAPS and BIPAP modes in patients with postoperative hypercapnic respiratory failure after open heart surgery
Halime Sinem Barutcu (Istanbul, Turkey), Ece Altanay, Halide Ozu, Mine Gulden Polat

Non invasive proportional assist ventilation versus pressure support ventilation in management of acute respiratory failure of COPD
Khaled Hussein (Assiut, Egypt), Gamal Rabie

Non-Invasive Ventilation (NIV) in Level 3 areas at a NHS Foundation Trust: A quality improvement project
Laura Mylott (Burgess Hill, United Kingdom), Charlene Goh, Kelly Morris

Predictive factors for non-invasive ventilation failure during acute respiratory distress syndrome
Amira Jamoussi (Ariana, Tunisia), Nouha Bouker, Samia Ayed, Takoua Merhebene, Jalila Ben Khelil, Mohamed Besbes

Professional training on the application of non-invasive ventilation in nursing practice
Kornelija Erdelja (Zagreb, Croatia), Azra Hodzic, Ivana Barisic, Kristina Pauker, Sladana Rezic, Tanja Zovko, Andreja Sajnic

Risk Factor for Noninvasive Ventilation Failure in Influenza Infection with Acute Respiratory Failure in ED
Karn Suttapanit (Bangkok, Thailand), Pitsucha Sanguanwit Sanguanwit, Jeeranun Boriboon

The impact of left heart dysfunction in patients with obesity hypoventilation syndrome with acute on chronic respiratory failure
Alexandru Tudor Steriade (Bucuresti, Romania), Gabriela Gamea, Bogdan Nuta, Daniela Necula, Nicoleta Sargarovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacea

Ventilatory management in acute respiratory failure of patients with obesity-hypoventilation syndrome
Amira Jamoussi (Ariana, Tunisia), Rachia Ghabarj, Ameni Khaled, Samia Ayed, Jalila Ben Khelil, Mohamed Besbes

14:10 - 15:10 Oral poster discussion: Chronic obstructive pulmonary disease

Disease(s): **Adult acute respiratory failure**  **Chronic respiratory failure**

Chairs: Lieve Bos (Amsterdam, Netherlands), Leo Heunks (Amsterdam, Netherlands)

Assessing symptom burden and depression in patients with chronic respiratory insufficiency.
Heidi Rantala (Pirkkala, Finland), Sirpa Leivo-Korpela, Anni Hanhimäki, Lauri Lehtimäki, Juho T Lehto
Impact of smoking habits in COPD patients under home noninvasive ventilation
Eduarda M. Tinoco (Porto, Portugal), Ana R. Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

Nasal high-flow versus non-invasive ventilation in patients with chronic hypercapnic COPD
Jens Bräunlich (Leipzig, Germany), Dominic Dellweg, Andreas Bastian, Torsten-Gerriet Blum, Stephan Budweiser, Winfried Randerath, Dona Triché, Martin Bachmann, Christian Kähler, Abdel Hakim Bayarassou, Irmhild Mäder, Jens Geiseler, David Petroff, Norbert Köhler, Hubert Wurtz

Predictive factors for readmission of patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease and respiratory failure
Diana Pimenta (Braga, Portugal), Maria João Araújo, Rita Ortiga, Ana Luisa Vieira, Rui Rolo, Lurdes Ferreira

Pursed-lip breathing ventilation for the treatment of hypercapnic respiratory failure in COPD
Christian Herzmann (Borstel, Germany), Christoph Jünger, Karoline I. Gaede, Christian Herzmann, Christoph Lange, Maja Reimann, Stephan Rüller

Short-term systemic steroid therapy in chronic obstructive pulmonary disease patients with acute respiratory failure
Lamia Shaaban (Assiut, Egypt), Shereen Farghaly, Ashraf Zin El-Abdeen, Hanan Galal, Entsar Mohammed

The estimated cost of chronic obstructive pulmonary disease exacerbation in intensive care unit
Amira Jamoussi (Ariana, Tunisia), Laaroussi Safouen Saula, Takoua Merhebene, Samia Ayed, Jalila Ben Khelif, Mohamed Besbes

14:10 - 15:10
Oral poster discussion: Paediatrics and Quality of life
Chairs: Brigitte Fauroux (Paris, France), Sangeeta Mehta (Toronto, Canada)

Effect of tidal volume and nebuliser position on aerosol delivery during neonate ventilation
Paul McKiernan (Dublin 22, Ireland), Gavin Bennett, Mary Joyce, Amy Tatham, Ronan Macloughlin

Correlation in the use of invasive and non-invasive mechanical ventilation
Azra Hodzic (Dubranc, Croatia), Kornelija Erdelja, Ivana Barisic, Sladana Rezic, Tanja Zovko, Andreja Sajnic

Impact of the duration of renal replacement therapy on the respiratory complications in patients with end-stage renal disease
Olga Shtepa (Dnipropetrovsk, Ukraine), Olga Shtepa, Oleksandr Kuryata, Olha Halushchak

In vitro aerosol delivery by vibrating mesh nebulizer (VMN) and pressurized metered dose inhaler (pMDI) using spacers in comparison with T adapters in mechanical ventilation.
alison vanlaeys (Valognes, France), Myriam Eckes, Alice Paris, Brenda Hervieu, Alison Vanlaeys, Karim Housseini, Thierry Porée

Interfaces for non invasive ventilation in children
Matteo Masolini (Firenze (FI), Italy), Chiara Castellani, Chiara Degli Innocenti, Diletta Innocenti, Riccardo Guarise, Rachele Locarno, Beatrice Ferrari, Niccolò Nassi

Patient and parent perceptions of an elective inpatient non-invasive ventilation setup bed
Kim Lund (Liverpool, United Kingdom), Kim Lund, Meg Macdonald, Liam Durkin, Ruth Trinick, Clare Halfhide

Providing bespoke equipment adaptations to promote independence and quality of life for users of long term ventilation (LTV)
Alison Armstrong (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Alison Armstrong, Graham Henderson

Tracheostomy ventilation in MND: A snapshot of UK practice
Jonathan Palmer (Plymouth (Devon), United Kingdom), Bhuvaneswari Kathiresan, Ben Messer, Michelle Ramsay

The use of home Non-Invasive ventilation in Cystic Fibrosis in a large Uk regional paediatric Service.
Clare Halfhide (Warrington (Cheshire), United Kingdom), Meg Macdonald, Kim Lund, Amanda Reed, Elinor Burrows, Kevin W Southern

Impact of the phosphatidylcholine treatment program on the respiratory failure in patients with community-acquired pneumonia
Olga Shtepa (Dnipropetrovsk, Ukraine), Olga Shtepa
Symposium: Health-related quality (HRQL) of life in patients with long-term ventilation

**Aims:** To address the important issue of health-related quality of life (HRQL) in patients with long-term mechanical ventilation; to discuss the methodology of HRQL assessment and clinical data.

**Disease(s):** Chronic respiratory failure

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Fellow, Lung function technician, Patient, Physiologist, Physiotherapist, Psychologist, Public health official, Pulmonologist, Researcher, Resident, Respiratory physician, Scientist, Sleep specialist/technologist, Social worker, Student, Trainee

**Chairs:** Jean-Paul Janssens (Genève, Switzerland), Peter J. Wijkstra (Groningen, Netherlands)

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<tr>
<td>08:00</td>
<td>Methods of HRQL assessment</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<td>08:30</td>
<td>HRQL in NIV</td>
<td>Wolfram Windisch (Cologne, Germany)</td>
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<td>09:00</td>
<td>HRQL in tracheotomized patients</td>
<td>Friederike Sophie Magnet (Köln, Germany)</td>
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Symposium: Noninvasive ventilation outside the ICU

**Aims:** To provide an update on the most recent developments of CPAP and NIV in children outside the ICU.

**Disease(s):** Paediatric respiratory failure

**Target audience:** Emergency medicine doctor, Intensivist/critical care physician, Paediatrician, Pulmonologist, Respiratory physician, Respiratory therapist, Sleep specialist/technologist

**Chairs:** Cesare Gregoretti (Palermo, Italy), Alessandro Amaddeo (Paris, France)

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<td>08:00</td>
<td>NIV as a transition from the ICU to the home</td>
<td>Martí Pons Òdena (Barcelona, Spain)</td>
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<td>08:30</td>
<td>Update on long term CPAP</td>
<td>Brigitte Fauroux (Paris, France)</td>
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<tr>
<td>09:00</td>
<td>Update on long term NIV</td>
<td>Linda Corel (Rotterdam, Netherlands)</td>
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Symposium: Rescue therapies for respiratory failure

**Aims:** To give indications for rescue therapies; to describe advantages and disadvantages.

**Disease(s):** Adult acute respiratory failure

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

**Chairs:** Christian Karagiannidis (Cologne, Germany), Lise Piquilloud (Lausanne, Switzerland)

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<td>08:00</td>
<td>Prone positioning and recruitment manoeuvre</td>
<td>Marcus Schultz (Amsterdam, Netherlands)</td>
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<td>08:30</td>
<td>Extracorporeal CO2 removal</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
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<tr>
<td>09:00</td>
<td>ECMO</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
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Symposium: Diagnostic techniques during mechanical ventilation

**Aims:** To discuss diagnostic techniques during mechanical ventilation.

**Disease(s):** Respiratory failure

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Respiratory therapist, Sleep specialist/technologist

**Chairs:** Christian Karagiannidis (Cologne, Germany), Lise Piquilloud (Lausanne, Switzerland)
Aims: To learn the contra-/indications and interpretation of the diagnostic results of lung ultrasound, esophageal pressure monitoring and bronchoscopy in mechanically ventilated patients.

Disease(s): Adult acute respiratory failure, Chronic respiratory failure, Paediatric respiratory failure

Target audience: Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident

Chairs: Sangeeta Mehta (Toronto, Canada), Heder de Vries (Amsterdam, Netherlands)

10:00 Lung ultrasound  
Marcus Schultz (Amsterdam, Netherlands)

10:25 Esophageal pressure monitoring  
Laurent Brochard (Toronto (ON), Canada)

10:50 Bronchoscopy in mechanically ventilated patients  
Lieuwe Bos (Amsterdam, Netherlands)

15:45 - 17:20

Live streamed

Symposium: Closing session: Year in Preview

Aims: To discuss important developments and studies that are coming up and how the future might look like.

Disease(s): Adult acute respiratory failure, Chronic respiratory failure, Paediatric respiratory failure

Target audience: Anaesthesiologist, Clinician, Intensivist/critical care physician, Pulmonologist, Researcher, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist

Chairs: Leo Heunks (Amsterdam, Netherlands)

15:45 Year in preview “paediatric” track  
Brigitte Fauroux (Paris, France)

16:15 Year in preview “acute” track  
Marcus Schultz (Amsterdam, Netherlands)

16:45 Year in preview “chronic” track  
Wolfram Windisch (Cologne, Germany)

11:30 - 12:30

Live streamed

Case-based session: Noninvasive ventilation and noninvasive CPAP in the PICU

Aims: To discuss clinical cases of paediatric noninvasive ventilation and noninvasive CPAP in the PICU.

Disease(s): Paediatric respiratory failure

Target audience: Emergency medicine doctor, Intensivist/critical care physician, Paediatrician, Pulmonologist, Respiratory therapist, Scientist, Sleep specialist/technologist

Chairs: Brigitte Fauroux (Paris, France)

11:30 Case of a child  
Linda Corel (Rotterdam, Netherlands)

11:45 Case presentation: High flow nasal canula oxygen as non-invasive ventilation modality to treat severe restrictive lung disease in an infant with skeletal anomaly.  
Theoifilos Polychronakis (Cambridge (Cambridgeshire), United Kingdom)

12:00 Case presentation: The successful extubation of a paediatric patient, following 3 previous failed extubations, through the use of non-invasive (NIV) neutrally adjusted ventilator assist (NAVA).  
Laura Flaxman (London, United Kingdom), Ellie Melkuhn (London, United Kingdom)

12:15 Case of an infant  
Alessandro Amaddeo (Paris, France)

13:30 - 15:30

Live streamed

Case-based session: Weaning from mechanical ventilation

Aims: To learn definitions and outcomes; to understand reasons for weaning failure and how to treat these factors.
Disease(s): Adult acute respiratory failure

Target audience: Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Pulmonologist, Resident, Student, Trainee

Chairs: Martin J. Tobin (Hines, United States of America)

13:30 Definition and outcome
Laurent Brochard (Toronto (ON), Canada)

13:40 Case presentation: An old known and rarely seen etiology of respiratory failure
Ricardo Estêvão Gomes (Lisboa, Portugal)

13:55 Why can’t my patient be weaned?
Martin Dres (Paris, France)

14:15 How to ventilate difficult to wean patients
Cesare Gregoretti (Palermo, Italy)

14:30 Early mobilisation and IMT
Sangeeta Mehta (Toronto, Canada)

14:55 Swallowing and talking in difficult to wean patients
Nicholas Hart (London, United Kingdom)

15:15 Case presentation: Extracorporeal CO2 removal and veno venous ECMO as bridge to transplantation in refractory hypercapnic respiratory failure
Goran Glodi (Zagreb, Croatia)

13:30 - 15:30
Live streamed
Case-based session: Problem-solving - Case studies of NIV problems

Aims: To address practical aspects of non-invasive ventilation.

Disease(s): Chronic respiratory failure

Target audience: Anaesthesiologist, Cardiologist, Clinician, Emergency medicine doctor, Intensivist/critical care physician, Junior member, Nurse, Physiotherapist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Student, Trainee

Chairs: Stefano Nava (Bologna (BO), Italy)

13:30 Individual titration of nocturnal NIV
Jean-Paul Janssens (Genève, Switzerland)

13:50 Leakages, mask problems and side effects
Sarah Schwarz (Köln, Germany)

14:10 Case presentation: Improved nocturnal gas exchange with high flow nasal cannula in advanced motor neuron disease with non-invasive ventilation intolerance
Collette Menadue (Leichhardt (NSW), Australia)

14:30 Case presentation: Spontaneous Pneumothorax in a Patient with Duchenne Muscular Dystrophy on Non-Invasive Ventilation
Darlene Mercieca (Zebbug, Malta)

14:50 Case presentation: Volume-assured pressure support ventilation in a chest-wall deformity case
Sónia Isabel Silva Guerra (Viseu, Portugal)

15:10 The role of obesity
Marieke L. Duiverman (Groningen, Netherlands)

11:30 - 12:30
Live streamed
Meet the Expert: Measurements of nocturnal gas exchange

Aims: To provide participants with an overview of the required technical skills in monitoring nocturnal gas exchange as well as the fields of use and limitations of the different techniques available today.

Disease(s): Chronic respiratory failure

Target audience: Clinician, Physiotherapist, Pulmonologist, Resident, Respiratory physician
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<td>11:30</td>
<td>Measurements of nocturnal gas exchange</td>
<td>Jean-Paul Janssens (Genève, Switzerland)</td>
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<td><strong>Meet the Expert: Understanding the ventilator waveform</strong></td>
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<td><strong>Aims:</strong> To understand all points of the waveform and its changes.</td>
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<td>Understanding the ventilator waveform</td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
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<td><strong>Skills workshop: How to set the ventilator based on individual conditions in children</strong></td>
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<td><strong>Aims:</strong> To learn first line and consecutive settings of a ventilator in children with different conditions.</td>
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<td><strong>Target audience:</strong> Allied health professional, Anaesthesiologist, Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist</td>
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<td>09:45</td>
<td>7-year old child needing ECMO</td>
<td>Martí Pons Òdena (Barcelona, Spain)</td>
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<td>09:45</td>
<td>3-month old baby with severe bronchiolitis</td>
<td>Christopher Milesi (Montpellier, France)</td>
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<td>09:45</td>
<td>2-year old child with congenital myopathy</td>
<td>Alessandro Amaddeo (Paris, France)</td>
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<td><strong>Skills workshop: Core competency in mechanical ventilation</strong></td>
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<td><strong>Aims:</strong> To understand the principles of controlled mechanical ventilator modes (PCV, VCV); to understand the principles of partially supported modes (PSV); to learn how to measure respiratory mechanics (compliance, Resistance, PEEPi); to understand the principles of safe mechanical ventilation in obstructive airway disease</td>
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<td><strong>Chairs:</strong> Lise Piquilloud (Lausanne, Switzerland)</td>
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<td>13:00</td>
<td>Controlled mechanical ventilation modes (PCV, VCV)</td>
<td>Lieuwe Bos (Amsterdam, Netherlands)</td>
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<td>13:00</td>
<td>Partially supported ventilation modes (PSV)</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
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<td>Measurement of respiratory mechanics (compliance, resistance, PEEPi)</td>
<td>Heder de Vries (Amsterdam, Netherlands)</td>
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<td>Mechanical ventilation in obstructive airway disease</td>
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INDORY SPONSORED SESSIONS
THURSDAY 13 FEBRUARY 2020

14:10-15:10 ALEXANDER II

Ventilator Integrated Polygraphy: The latest monitoring solutions for NIV
Organised by Breas

FRIDAY 14 FEBRUARY 2020

14:10-15:10 ALEXANDER II

High Flow Therapy: a paradigm shift from oxygen therapy to respiratory support
Organised by Fischer & Paykel Healthcare
14:10 Mechanisms of actions of the humidified high flow
Lara Pisani (Bologna)
14:30 Use of high flow in the pulmonology department
Manel Lujan (Barcelone)
14:50 Outcomes of a 6 Week crossover NHF vs NIV study on chronic COPD patients
Jens Braünlich (Leipzig)

17:30-19:00 ALEXANDER II

Advances in NIV Therapy
Organised by Philips
Moderator: Prof. Mickael Polkey (Royal Brompton Hospital, London UK)
Optimal NIV in Acute Respiratory Failure
Dr. Carlos Ferrando, MD, PhD (Barcelona, Spain)
The impact and concerns of Expiratory Flow Limitation in COPD during sleep
Dr. Javier Sayas Catalán (Madrid, Spain)
Theory and Applications of Monitored Pulmonary Mechanics in NIV
Bill Truschel (Principal Scientist, Philips, USA), Prof. Michael Polkey (London, United Kingdom)
CHAIR AND COORDINATOR INDEX

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