#RFMV2024

Respiratory Failure and Mechanical Ventilation Conference

PROGRAMME

15-17 February 2024
Berlin, Germany
# OVERVIEW PROGRAMME

**THURSDAY, 15.02.2024**

## Rooms

<table>
<thead>
<tr>
<th>Alexander I</th>
<th>Alexander II</th>
<th>Alexander III</th>
<th>Friedrich Wilhelm</th>
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### 08:00-9:30

**OPENING SESSION**

Physiological mechanisms leading to acute, chronic or de novo respiratory failure

<table>
<thead>
<tr>
<th>9:30-9:45 Break</th>
<th>9:45-11:15</th>
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### 10:00-12:00

**SYMPOSIUM**

Monitoring the efficacy of mechanical ventilation

### 11:00-13:00

**Lunch break**

### 13:30-14:30

**INDUSTRY SYMPOSIUM**

### 14:30-15:30

**CASE BASED 1**

### 15:30-16:30

**ORAL DISCUSSION 1**

### 16:30-18:00

**SYMPOSIUM**

State of the Art veno-venous ECMO

**HOT TOPIC**

Artificial intelligence in mechanical ventilation

### 13:00-15:00

**WORKSHOP**

Assessment of respiratory muscle function

### 13:00-15:00

**WORKSHOP**

Noninvasive ventilation in clinical practice

### 16:00-18:00

**WORKSHOP**

Noninvasive ventilation in clinical practice

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*additional registration required*
OVERVIEW PROGRAMME

FRIDAY, 16.02.2024

Rooms

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08:00-9:30

SYMPOSIUM
Difficult weaning-Is it preventable?

9:30-9:45 Break

9:45-11:15

SYMPOSIUM
End of life care

11:15-11:30 Break

11:30-12:30

MEET-THE-EXPERTS
Adjunct therapies in mechanical ventilation

SYMPOSIUM
Respiratory muscle monitoring

MEET-THE-EXPERTS
Monitoring waveforms and how to analyse patient ventilator interaction

12:30-14:00 Lunch break

13:00-14:00

INDUSTRY SYMPOSIUM

14:00-16:00

MEET-THE-EXPERTS
Neuromuscular diseases and role of long term ventilation

MEET-THE-EXPERTS
CPAP vs BIPAP in the treatment of overlap syndrome

SYMPOSIUM
Telemedicine in home mechanical ventilation

15:30-16:30

ORAL DISCUSSION 4

ORAL DISCUSSION 5

ORAL DISCUSSION 6

16:30-17:00 Break

17:00-18:00

ORAL DISCUSSION 7

ORAL DISCUSSION 8

INDUSTRY SYMPOSIUM

*additional registration required
# OVERVIEW PROGRAMME

**SATURDAY, 17.02.2024**

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<tr>
<td>08:00-9:30</td>
<td>SYMPOSIUM</td>
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<tr>
<td></td>
<td>Acute respiratory distress syndrome: definition and phenotypes</td>
<td>Goals of chronic home ventilation</td>
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<tr>
<td>9:30-9:45</td>
<td>Break</td>
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<td>9:45-11:15</td>
<td>SYMPOSIUM</td>
<td>SYMPOSIUM</td>
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<td></td>
<td>Diagnostic challenges in acute respiratory failure</td>
<td>ALS - timing, goals and effectiveness</td>
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<tr>
<td>11:15-11:30</td>
<td>Break</td>
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<td>11:30-13:00</td>
<td>SYMPOSIUM</td>
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<td></td>
<td>Respiratory failure 2023: year in preview</td>
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<tr>
<td>13:00-14:00</td>
<td>Lunch break</td>
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*additional registration required
### Alexander 2  
**Session 08:00 - 09:30**

**Symposium: Physiological mechanisms leading to acute, chronic, or de novo respiratory failure**  
**Gas, drive, muscle and adaptation**

**Aims:** This session aims to analyse different aspects of abnormal gas-exchange, including complex V/Q mismatch. Appraise respiratory drive and effort in various clinical scenario. Interpret work of breathing using various tools. Describe adaptations of chronic respiratory failure.

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

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Fellow, Intensivist/critical care physician, Junior member, Lung function technician, Neonatologist, Paediatrician, Physiologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Trainee

**Chairs:** Marieke L. Duiverman (Groningen, Netherlands), Christian Karagiannidis (Cologne, Germany)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome and introduction</td>
<td>Christian Karagiannidis (Cologne, Germany), Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<td>08:05</td>
<td>Abnormal gas-exchange</td>
<td>Mariangela Pellegrini (Uppsala, Sweden)</td>
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<tr>
<td>08:25</td>
<td>Respiratory drive in respiratory failure</td>
<td>Luigi Camporota (London, United Kingdom)</td>
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<tr>
<td>08:45</td>
<td>Breathing effort</td>
<td>Annemijn Jonkman (Rotterdam, Netherlands)</td>
</tr>
<tr>
<td>09:05</td>
<td>Adaptations during chronic respiratory failure; consequences for gas-exchange, drive and effort</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<td>09:25</td>
<td>Q/A and discussion</td>
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### Alexander 2  
**Session 09:45 - 11:15**

**Symposium: Monitoring the efficacy of mechanical ventilation**

**Aims:** This session aims to describe the most recent advances on the "new and old" monitoring system both in the acute and chronic patients receiving mechanical ventilation.

**Disease(s):** Acute respiratory failure, Chronic respiratory failure, Monitoring the ventilated patient

**Target audience:** Allied health professional, Anaesthesiologist, Clinician, Emergency medicine doctor, Engineer, Fellow, Intensivist/critical care physician, Junior member, Lung function technician, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Pulmonologist, Radiologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Sleep specialist/technologist

**Chairs:** João Carlos Winck (Vila Nova de Gaia, Portugal), Jan Graßhoff (Lübeck, Germany)

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<tbody>
<tr>
<td>09:45</td>
<td>Electrical impedance tomography (EIT): ready for the prime time?</td>
<td>Annemijn Jonkman (Rotterdam, Netherlands)</td>
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<tr>
<td>10:05</td>
<td>Gas exchange assessment in acute and chronic ventilation: blood gases are not all!</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
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<tr>
<td>10:25</td>
<td>Monitoring sleep in ventilated patients: the dark side of the moon</td>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
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<tr>
<td>10:45</td>
<td>Remote monitoring of mechanical ventilation, is only a chronic &quot;affair&quot;?</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>11:05</td>
<td>Q/A and discussion</td>
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### Friedrich Wilhelm  
**Session 10:00 - 12:00**

**Skills workshop: Assessment of respiratory muscle function**

**Chairs:** Alexandre Demoule (Paris, France), Tiina Andersen (Bergen, Norway)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Measurement of maximal inspiratory pressure</td>
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<tr>
<td>10:00</td>
<td>Evaluation of chest wall muscles (surface EMG) and diaphragm (oesophageal EMG)</td>
<td>Rebecca D'Cruz (London, United Kingdom)</td>
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</tbody>
</table>
Session 11:30 - 13:00
Symposium: Precision medicine in noninvasive respiratory support strategies in acute and chronic respiratory failure

**Aims:** This session aims to discuss the tailored use of respiratory support strategies across different aspects of acute and chronic respiratory failure.

**Disease(s):** Acute respiratory failure, Chronic respiratory failure, Noninvasive ventilation - practical aspects

**Target audience:** Emergency medicine doctor, Intensivist/critical care physician, Junior member, Paediatrician, Physiotherapist, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Student, Trainee

**Chairs:** Claudia Crimi (Catania (CT), Italy), Nicholas Hart (London, United Kingdom)

- **11:30** NIV or HFT? Tailoring treatment for patients with acute respiratory failure
  - Domenico Luca Greco (Rome, Italy)

- **11:50** NIV or HFT? Tailoring treatment for patients with chronic respiratory failure
  - Lara Pisani (Bologna (BO), Italy)

- **12:10** NIV or HFT? Tailoring treatment for children with acute respiratory failure
  - Alessandro Amaddeo (Paris, France)

- **12:30** Weaning from noninvasive respiratory support in acute respiratory failure
  - Begüm Ergan (Izmir, Turkey)

- **12:50** Q/A and discussion

Session 13:00 - 15:00
Skills workshop: Noninvasive ventilation (NIV) in the clinical practice

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

- **13:00** Interfaces and technique of NIV
  - Claudia Crimi (Catania (CT), Italy)

- **13:00** Ventilator for acute hypoximic resp failure
  - Christian Karagiannidis (Cologne, Germany)

- **13:00** Ventilator for COPD exacerbation
  - Stefano Nava (Bologna (BO), Italy)

Session 16:00 - 18:00
Skills workshop: Noninvasive ventilation (NIV) in the clinical practice

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

- **16:00** Interfaces and technique of NIV
  - Claudia Crimi (Catania (CT), Italy)

- **16:00** Ventilator for acute hypoximic resp failure
  - Lieuwe D.J. Bos (Amsterdam, Netherlands)

- **16:00** Ventilator for COPD exacerbation
  - Stefano Nava (Bologna (BO), Italy)

Session 16:30 - 18:00
Symposium: State of the Art veno-venous ECMO

**Aims:** This session aims to provide an update on the management of the extracorporeal membrane oxygenation in patients with acute respiratory failure.
**Disease(s)**: Acute respiratory failure

**Target audience**: Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Junior member, Nurse, Physiotherapist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Student, Trainee

**Chairs**: Christoph Fisser (Regensburg, Germany), Begüm Ergan (Izmir, Turkey)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Guideline based ECMO Therapy 2024</td>
<td>Holger Müller-Redetzky (Berlin, Germany)</td>
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<tr>
<td>16:55</td>
<td>Control of respiratory drive: underestimated key in ECMO therapy?</td>
<td>Christian Karagiannidis (Cologne, Germany)</td>
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<tr>
<td>17:20</td>
<td>Ventilation and Weaning on and from vvECMO – when &amp; how?</td>
<td>Luigi Camporota (London, United Kingdom)</td>
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<tr>
<td>17:45</td>
<td>Q/A and discussion</td>
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**Alexander 3 Session 16:30 - 18:00**

**Hot topic: Artificial intelligence in mechanical ventilation**

**Aims**: This session aims to foster knowledge exchange and insights into cutting-edge developments in telemedical consultations, AI fundamentals, and the integration of AI in critical care settings. Participants will be encouraged to engage in discussions and ask questions to enhance their understanding of these topics and their implications for the field of mechanical ventilation.

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

**Target audience**: Clinician, Emergency medicine doctor, Intensivist/critical care physician, Lung function technician, Nurse, Paediatrician, Physiotherapist, Pulmonologist, Respiratory physician, Respiratory therapist, Scientist

**Chairs**: Andreas Schuppert (Aachen, Germany), Ignacio Martin-Loeches (Dublin, Ireland)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Telemedicine in the ICU and home mechanical ventilation: The Berlin experience</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>16:50</td>
<td>The basic principles of Artificial Intelligence</td>
<td>Andreas Schuppert (Aachen, Germany)</td>
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<tr>
<td>17:10</td>
<td>AI in emergency medicine and ICU</td>
<td>Pedro David Wendel Garcia (Zurich, Switzerland)</td>
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<tr>
<td>17:30</td>
<td>Q/A and discussion</td>
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### Alexander 2 Session 08:00 - 09:30

#### Symposium: Difficult weaning-Is it preventable?

**Aims:** This session aims to describe recent advances in difficult weaning and an overview of current evidence available for its prevention.

**Disease(s):** Chronic respiratory failure, Monitoring the ventilated patient, Weaning from the mechanical ventilation

**Target audience:** Allied health professional, Clinician, Engineer, Epidemiologist, Fellow, General practitioner, Intensivist/critical care physician, Junior member, Nurse, Patient, Physiologist, Physiotherapist, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Scientist, Student, Trainee

**Chairs:** João Carlos Winck (Vila Nova de Gaia, Portugal), Begüm Ergan (Izmir, Turkey)

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<tr>
<td>08:00</td>
<td>Difficult weaning: Where are we?</td>
<td>Leo Heunks (Amsterdam, Netherlands)</td>
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<tr>
<td>08:25</td>
<td>Can we prevent respiratory muscle dysfunction?</td>
<td>Lara Pisani (Bologna (BO), Italy)</td>
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<tr>
<td>08:50</td>
<td>Speeding up the weaning process-Is it possible with new advances in technology?</td>
<td>Nicholas Hart (London, United Kingdom)</td>
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<td>09:15</td>
<td>Q/A and discussion</td>
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### Alexander 2 Session 09:45 - 11:15

#### Symposium: End of life care

**Aims:** This session aims to address the importance of palliative care in patients with respiratory failure, particularly in the end of life period, both in the acute/intensive care setting and in chronic/home setting. We aim to reinforce the importance of advance care planning and explore symptom treatment, particularly dyspnea, in the end of life.

**Disease(s):** Acute respiratory failure, Chronic respiratory failure, Noninvasive ventilation - practical aspects

**Target audience:** Clinician, Emergency medicine doctor, Fellow, Intensivist/critical care physician, Nurse, Patient, Physiotherapist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Trainee

**Chairs:** Anita Simonds (London, United Kingdom), Christian Karagiannidis (Cologne, Germany)

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<tr>
<td>09:45</td>
<td>Concepts and Palliative Care needs in End of Life</td>
<td>Carla Ribeiro (Vila Nova de Gaia, Portugal)</td>
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<tr>
<td>10:05</td>
<td>Advance Care Planning and End of Life Care in the ICU</td>
<td>Lieuwe D.J. Bos (Amsterdam, Netherlands)</td>
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<td>10:25</td>
<td>Advance Care Planning in Home mechanically ventilated patients</td>
<td>Anita Simonds (London, United Kingdom)</td>
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<td>10:45</td>
<td>Treating dyspnea in the End of Life</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
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<td>11:05</td>
<td>Q/A and discussion</td>
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### Friedrich Wilheim Session 10:30 - 12:30

#### Skills workshop: Respiratory support in the chronic setting

**Chairs:** Maxime Patout (Paris, France)

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<tr>
<td>10:30</td>
<td>How to set the ventilator in COPD?</td>
<td>Claudia Crimi (Catania (CT), Italy)</td>
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<td>10:30</td>
<td>How to ventilate patients with ALS?</td>
<td>Anda Hazenberg (Groningen, Netherlands)</td>
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<td>10:30</td>
<td>How to set nasal high flow therapy in chronic care?</td>
<td>Lara Pisani (Bologna (BO), Italy)</td>
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<td>10:30</td>
<td>Monitoring of patients being ventilated at home</td>
<td>Begüm Ergan (Izmir, Turkey)</td>
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Alexander 3 Session 11:30 - 12:30

Meet the Experts: Monitoring waveforms and how to analyse patient-ventilator interaction

**Waveforms in basics**

**Aims:** Practical tricks and tips to help the clinicians to analyze and understand waveforms in the ventilator. Main focus will be devoted to the problem solving related to monitoring the interaction between the patient and the ventilation.

**Disease(s):** Monitoring the ventilated patient

**Target audience:** Allied health professional, Clinician, Educationalist, Engineer, Fellow, Intensivist/critical care physician, Junior member, Nurse, Physiologist, Physiotherapist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Student, Trainee

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<tr>
<td>11:30</td>
<td><strong>Waveforms in basics</strong></td>
<td>Annalisa Carlucci (San Donato Milanese (MI), Italy)</td>
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<tr>
<td>11:45</td>
<td><strong>How to analyze patient-ventilator interaction</strong></td>
<td>Martin Dres (Paris, France)</td>
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<td>12:00</td>
<td><strong>Q&amp;A and discussion</strong></td>
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Alexander 1 Session 11:30 - 12:30

Meet the Experts: Adjunct therapies in mechanical ventilation

Update to inspiratory muscle conditioning and upper airway evaluation

**Aims:** The main aim of this Meet the Expert session is to orientate you on the new developments in the field of respiratory muscle conditioning and upper airway evaluation. The session will consist of two talks focusing in following sub areas:

1. Respiratory muscle conditioning to improve weaning outcomes and functional recovery in prolonged weaning. Respiratory muscle dysfunction can contribute to weaning failure and delayed functional recovery after weaning. Results of several recent RCT's will be discussed along with practical recommendations on patient selection and optimal implementation of individualized training interventions.

2. Upper airway evaluation during respiratory therapies as non-invasive ventilation and mechanically assisted cough. To provide participants an overview of the required technical skills in observing and evaluating the upper airways, particularly the larynx, during non-invasive respiratory therapies as non-invasive ventilation and mechanically assisted cough, including the use and limitations of the different techniques available today.

**Disease(s):** Acute respiratory failure | Chronic respiratory failure | Noninvasive ventilation - practical aspects

**Target audience:** Allied health professional, Clinician, Educationalist, Intensivist/critical care physician, Lung function technician, Nurse, Otolaryngologist, Paediatrician, Physiotherapist, Pulmonologist, Researcher, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Thoracic endoscopist

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<tr>
<td>11:30</td>
<td><strong>Respiratory muscle conditioning to improve weaning outcomes and functional recovery in prolonged weaning</strong></td>
<td>Marine Van Hollebeke (Leuven, Belgium)</td>
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<tr>
<td>11:45</td>
<td><strong>Upper airway evaluation during NIV and mechanically assisted cough</strong></td>
<td>Tina Andersen (Bergen, Norway)</td>
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<td>12:00</td>
<td><strong>Q&amp;A and discussion</strong></td>
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Alexander 2 Session 11:30 - 12:30

Mini Symposium: Respiratory muscle monitoring

**Aims:** This session aims to provide an overview of the technology to monitor respiratory muscle function. Discuss why respiratory muscle monitoring is important in patients with acute and chronic respiratory failure.

**Disease(s):** Acute respiratory failure | Chronic respiratory failure | Monitoring the ventilated patient

**Target audience:** Allied health professional, Anaesthesiologist, Clinician, Educationalist, Emergency medicine doctor, Engineer, Fellow, Intensivist/critical care physician, Junior member, Lung function technician, Neonologist, Nurse, Paediatrician, Physiologist, Physiotherapist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Sleep specialist/technologist, Student, Trainee

**Chairs:** Christian Karagiannidis (Cologne, Germany), Marieke L. Duiverman (Groningen, Netherlands)

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<tr>
<td>11:30</td>
<td><strong>Respiratory muscle monitoring: from electrical activity to force</strong></td>
<td>Jan Graßhoff (Lübeck, Germany)</td>
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<tr>
<td>11:45</td>
<td><strong>Respiratory muscle monitoring in the ICU: why and how</strong></td>
<td>Annemijn Jonkman (Rotterdam, Netherlands)</td>
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</table>
12:00  Respiratory muscle monitoring in chronic ventilation: why and how?  
Rebecca D'Cruz (London, United Kingdom)

12:15  Q/A and discussion

Friedrich Wilheim  
Skills workshop: Respiratory support in the chronic setting  
Chairs: João Carlos Winck (Vila Nova de Gaia, Portugal)

14:00  How to set the ventilator in COPD?  
Claudia Crimi (Catania (CT), Italy)

14:00  How to ventilate patients with ALS?  
Peter J. Wijkstra (Groningen, Netherlands)

14:00  How to set nasal high flow therapy in chronic care?  
Lara Pisani (Bologna (BO), Italy)

14:00  Monitoring of patients being ventilated at home  
Rebecca D'Cruz (London, United Kingdom)

Alexander 1  
Session  
14:15 - 15:15
Meet the Experts: Neuromuscular diseases and role of long term ventilation

Aims: Understand the different types of ventilation used in patients with neuromuscular disease (NMD)  
Understand the impact of novel therapies on patients with NMD and their ventilatory requirements  
Understand some of the ethical issues of long term ventilation in this patient population

Disease(s): Chronic respiratory failure  
Noninvasive ventilation - practical aspects  
Problem-solving - Case studies of NIV problems

Target audience: Clinician, Fellow, Junior member, Paediatrician, Patient, Physiotherapist, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Sleep specialist/technologist, Trainee

14:15  Neuromuscular diseases in adulthood: how to grow old with long term ventilation  
Anita Simonds (London, United Kingdom)

14:30  Neuromuscular diseases in childhood: how to grow up with long term ventilation  
Hui Leng Tan (London, United Kingdom)

14:45  Q/A and discussion

Alexander 2  
Session  
14:15 - 15:15
Meet the Experts: CPAP vs BIPAP in the treatment of overlap syndrome

Aims: This session aims to discuss current evidence and clinical practical approach for the management of patients with overlap syndrome.

Disease(s): Chronic respiratory failure  
Noninvasive ventilation - practical aspects

Target audience: Clinician, Fellow, Patient, Physiotherapist, Pulmonologist, Resident, Respiratory physician, Respiratory therapist, Sleep specialist/technologist, Student

14:15  CPAP or BiPAP: which is best for my patient with overlap syndrome?  
Sophia E. Schiza (Heraklion, Greece)

14:30  CPAP or BiPAP: which is best for my patient with overlap syndrome?  
Annalisa Carlucci (San Donato Milanese (MI), Italy)

14:45  Q/A and discussion

Alexander 3  
Session  
14:15 - 15:15
Mini Symposium: Telemedicine in home mechanical ventilation

Aims:  
- to discuss the evidence for use of telemedicine in HMV  
- to discuss the clinical practice and implementation  
- to discuss telemedicine for personalized follow-up  
- to discuss future perspectives
Disease(s) : Chronic respiratory failure
Target audience : Allied health professional, Clinician, Educationalist, Engineer, Fellow, General practitioner, Intensivist/critical care physician, Nurse, Occupational therapist, Paediatrician, Patient, Physiotherapist, Public health official, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Scientist, Student, Trainee
Chairs : Anda Hazenberg (Groningen, Netherlands), Tiina Andersen (Bergen, Norway)

14:15  Telemedicine in HMV: from clinical trials to everyday practice
       Carla Ribeiro (Vila Nova de Gaia, Portugal)

14:30  Telemedicine in HMV: the role of big data analysis
       Maxime Patout (Paris, France)

14:45  Telemedicine in HMV: future perspectives
       Marieke L. Duiverman (Groningen, Netherlands)

15:00  Q/A and discussion
Alexander 3 Session 08:00 - 09:30

Symposium: Goals of chronic home ventilation

Aims: The aim of this session is to discuss goals and expectations from chronic NIV in different underlying diseases.

Disease(s): Chronic respiratory failure

Target audience: Allied health professional, Clinician, Educationalist, Fellow, General practitioner, Intensivist/critical care physician, Junior member, Neonatologist, Nurse, Paediatrician, Patient, Physiotherapist, Psychologist, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Trainee

Chairs: Carla Ribeiro (Vila Nova de Gaia, Portugal), Peter J. Wijkstra (Groningen, Netherlands)

08:00 Home ventilation: towards improving physiological outcomes
    Wolfram Windisch (Cologne, Germany)

08:20 Home ventilation: ventilate to obtain meaningful outcomes for the patient
    Peter J. Wijkstra (Groningen, Netherlands)

08:40 Home ventilation: do we also obtain meaningful outcomes to society?
    Rebecca D'Cruz (London, United Kingdom)

09:00 Goals of chronic ventilation: specific considerations in children
    Hui Leng Tan (London, United Kingdom)

09:20 Q&A session

Alexander 2 Session 08:00 - 09:30

Symposium: Acute respiratory distress syndrome: definition and phenotypes

Aims: This session aims to discuss initiatives to broaden the definition of ARDS, specifically the inclusion of patients on HFNC and the use of lung ultrasound for ARDS diagnosis. Appreciate ARDS subphenotypes. Discuss initiatives for subphenotype-targeted intervention trials

Disease(s): Acute respiratory failure Monitoring the ventilated patient

Target audience: Anaesthesiologist, Cardiologist, Clinician, Epidemiologist, Fellow, Immunologist, Intensivist/critical care physician, Junior member, Neonatologist, Physiologist, Pulmonologist, Radiologist, Researcher, Resident, Respiratory physician, Scientist, Student, Trainee

Chairs: Christoph Fisser (Regensburg, Germany), Alexandre Demoule (Paris, France)

08:00 The proposal for a global definition of ARDS
    Christian Karagiannidis (Cologne, Germany)

08:20 Lung ultrasound for diagnosis of ARDS
    Alexandre Demoule (Paris, France)

08:40 ARDS subphenotypes: biology, physiology and imaging
    Marry Smit (Utrecht, Netherlands)

09:00 Subphenotype-driven randomized controlled trials.
    Lieuwe D.J. Bos (Amsterdam, Netherlands)

09:20 Q/A and discussion

Alexander 3 Session 09:45 - 11:15

Symposium: ALS - timing, goals and effectiveness.

Aims: During this session, ventilatory support in patients with amyotrophic lateral sclerosis will be discussed. When is the "right" moment to start, what is to be expected and which choices need to be made, also during disease progression?

Disease(s): Chronic respiratory failure Noninvasive ventilation - practical aspects

Target audience: Allied health professional, Clinician, Emergency medicine doctor, Fellow, General practitioner, Intensivist/critical care physician, Nurse, Patient, Physiotherapist, Psychologist, Public health official, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Social worker, Student, Trainee

Chairs: Anda Hazenberg (Groningen, Netherlands), Nicholas Hart (London, United Kingdom)

09:45 Ventilatory support in patients with ALS: what is the "right" moment according to the doctor?
    Peter J. Wijkstra (Groningen, Netherlands)

10:10 Ventilatory support in patients with ALS: what is the "right" moment according to the patient?
10:35 Ventilatory support in ALS: what if it does not work out?
João Carlos Winck (Vila Nova de Gaia, Portugal)

11:00 Q&A and discussion

#### Session 09:45 - 11:15

**Symposium: Diagnostic challenges in acute respiratory failure**

**Aims:** This session aims to improve:
- identification of ventilator-induced lung injury
- recognition and treatment of ventilator-associated pneumonia
- appreciation of viral reactivations in non-resolving lung injury
- appreciation of fungal infections in non-resolving lung injury

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

**Target audience:** Anaesthesiologist, Cardiologist, Clinician, Epidemiologist, Fellow, Immunologist, Intensivist/critical care physician, Microbiologist, Neonatologist, Pathologist, Patient, Pulmonologist, Radiologist, Researcher, Resident, Respiratory physician, Scientist, Student, Trainee

**Chairs:** Leo Heunks (Amsterdam, Netherlands), Alexandre Demoule (Paris, France)

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>09:45</td>
<td>Management of severe CAP</td>
<td>Martin Witzenrath (Berlin, Germany)</td>
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<tr>
<td>10:05</td>
<td>Recognition and treatment of ventilator-associated pneumonia</td>
<td>Ignacio Martin-Loeches (Dublin, Ireland)</td>
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<td>10:25</td>
<td>Viral reactivations in non-resolving lung injury</td>
<td>Lieuwe D.J. Bos (Amsterdam, Netherlands)</td>
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<tr>
<td>10:45</td>
<td>Fungal infections in non-resolving lung injury</td>
<td>Joost Wauters (Leuven, Belgium)</td>
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<td>11:05</td>
<td>Q&amp;A and discussion</td>
<td>Friedrich Wilhelm</td>
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#### Session 10:30 - 12:30

**Skills workshop: Early rehabilitation**

**Chairs:** Tiina Andersen (Bergen, Norway)

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<th>Time</th>
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<tr>
<td>10:30</td>
<td>Exercise training in early rehabilitation</td>
<td>Cheryl Hickmann (Bruxelles, Belgium)</td>
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<td>10:30</td>
<td>Inspiratory muscle training</td>
<td>Marine Van Hollebeke (Leuven, Belgium)</td>
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<td>10:30</td>
<td>Evaluation and training of the swallowing and speech</td>
<td>Aeron Ginnelly (London, United Kingdom)</td>
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#### Session 11:30 - 13:00

**Symposium: Respiratory failure 2023: year in preview**

**Aims:** - describe recent developments and research in the field of acute and chronic respiratory failure
- discuss future developments
- give a glance into the future

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

**Target audience:** Allied health professional, Anaesthesiologist, Cardiologist, Clinician, Educationalist, Engineer, Fellow, General practitioner, Intensivist/critical care physician, Junior member, Lung function technician, Neonatologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Psychologist, Public health official, Pulmonologist, Researcher, Resident, Respiratory physician, Respiratory therapist, Student, Trainee

**Chairs:** Lieuwe D.J. Bos (Amsterdam, Netherlands), Claudia Crimi (Catania (CT), Italy)

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<tr>
<td>11:30</td>
<td>A year in review: Different phenotypes in ARDS: what progress has been made?</td>
<td>Marry Smit (Utrecht, Netherlands)</td>
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<tr>
<td>11:50</td>
<td>A year in review: Taking care for patients with chronic respiratory failure: how to make it ready for the future?</td>
<td>Maxime Patout (Paris, France)</td>
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<tr>
<td>12:10</td>
<td>Q/A discussion</td>
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<td>12:20</td>
<td><strong>Keynote - Future directions in respiratory Failure</strong></td>
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<td>Leo Heunks (Amsterdam, Netherlands)</td>
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<td>12:50</td>
<td>Q/A and discussion</td>
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