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ADVANCE PROGRAMME

Respiratory Failure and Mechanical Ventilation Conference

13-15 February 2020
Berlin, Germany

[ERSNET.ORG](https://www.ersnet.org)

WELCOME FROM THE CONFERENCE CHAIR



Leo Heunks
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

- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander I
08:00-10:00				
<div><div>OPENING SESSION</div><div>Understanding respiratory physiology</div><div><div></div><div></div><div></div></div></div>				
10:00-10:30 Break			10:15-12:35	
10:30-12:00				
<div><div>SYMPOSIUM</div><div>Pediatric mechanical ventilation recommendations</div><div></div></div>	<div><div>SYMPOSIUM</div><div>Get the basics right</div><div></div></div>	<div><div>SYMPOSIUM</div><div>Non-invasive ventilation (NIV) in neuromuscular disorders</div><div></div></div>	<div><div>SKILLS WORKSHOP*</div><div>Respiratory monitoring</div><div></div></div>	
12:00-12:50 Lunch Break				
12:50-14:00				
<div><div>CASE BASED</div><div>Monitoring of mechanical ventilation in children</div><div></div></div>	<div><div>CASE BASED</div><div>Monitoring the ventilated patient</div><div></div></div>	<div><div>CASE BASED</div><div>Noninvasive ventilation - practical aspects</div><div></div></div>		
14:00-15:15 Break			14:10-16:30	
15:15-17:15			14:10-15:10	
<div><div>PRO/CON Debate</div><div>Controversies in patients with acute respiratory failure</div><div></div></div>			<div><div>SKILLS WORKSHOP*</div><div>Respiratory monitoring</div><div></div></div>	<div><div>THEMATIC POSTER SESSION</div><div><div></div><div></div><div></div></div></div>

*additional registration required

OVERVIEW PROGRAMME

FRIDAY, 14.02.2020

- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander I
08:00-09:30				
SYMPOSIUM Specific ventilator strategies	SYMPOSIUM Mechanical ventilation in specific diseases	SYMPOSIUM Non-invasive ventilation (NIV) in COPD		
09:30-10:00 Break			09:45-12:05	
	10:00-12:00		SKILLS WORKSHOP* How to set the ventilator based on individual conditions	
	SYMPOSIUM Adverse effects of mechanical ventilation			
12:00-13:00 Lunch Break				
13:00-14:00				
MEET THE EXPERT Weaning failure in children	MEET THE EXPERT The practice of sedation in critically ill patients	MEET THE EXPERT Sleep-related hypoventilation		
14:15-15:15 Break			14:10-16:30	14:10-15:10
	15:15-17:15		SKILLS WORKSHOP* How to set the ventilator based on individual conditions	THEMATIC POSTER SESSION
	SYMPOSIUM Noninvasive ventilation and high flow therapy (HFNT)	SYMPOSIUM Prolonged weaning		

*additional registration required

OVERVIEW PROGRAMME

SATURDAY, 15.02.2020

- Adult acute respiratory failure
- Chronic respiratory failure
- Paediatric respiratory failure

Rooms

Alexander I	Alexander II	Alexander III	Friedrich Wilhelm	Grenander IV
08:00-09:30				
SYMPOSIUM Noninvasive ventilation outside the ICU	SYMPOSIUM Rescue strategies for respiratory failure	SYMPOSIUM Health-related quality (HRQL) of life in patients with long-term ventilation		
09:30-10:00 Break			09.45-12:05	
	10:00-11:15		SKILLS WORKSHOP* How to set the ventilator based on individual conditions in children	
	SYMPOSIUM Diagnostic techniques during ventilation			
11:30-12:30				
CASE BASED Noninvasive ventilation and noninvasive CPAP in the PICU	MEET THE EXPERT Understanding the ventilator waveform	MEET THE EXPERT Measurements of nocturnal gas exchange		
12:30-13:30 Lunch Break			13:00-15:20	
	13:30-15:30		SKILLS WORKSHOPS* Core competency in mechanical ventilation	
	CASE BASED Weaning from mechanical ventilation	CASE BASED Problem-solving - Case studies of NIV problems		
15:15-15:45 Break				
15:45-17:20				
	CLOSING SESSION YEAR IN PREVIEW Paediatric- Acute - Chronic			

*additional registration required

≡ PROGRAMME

This information was up-to-date on 11 September 2019

Alexander II	Session	08:00 - 10:00
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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)
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08:10	Development of the respiratory system: from cradle to grave Peter Rimensberger (Geneva 14, Switzerland)
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08:40	Impaired gas exchange Stefano Nava (Bologna (BO), Italy)
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09:10	Basics of respiratory mechanics Leo Heunks (Amsterdam, Netherlands)
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09:40	History of mechanical ventilation Martin J. Tobin (Hines, United States of America)
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Friedrich Wilhelm	Session	10:15 - 12:35
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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)
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Alexander I	Session	10:30 - 12:00
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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 Martin Kneyber (Groningen, Netherlands)
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11:00	Recommendations for mechanical ventilation in preterms Peter Rimensberger (Geneva 14, Switzerland)
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11:30	Ventilation strategies in pediatric ARDS: are they different in children as compared to adults? Daniele De Luca (Clamart, France)
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Alexander II	Session	10:30 - 12:00
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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 (Milan, Italy)

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

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

Alexander III	Session	10:30 - 12:00
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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 : Brigitte Fauroux (Paris, France), Wolfram Windisch (Cologne, Germany)

10:30 **Role of neuromuscular diseases in pulmonary medicine**
Wolfram Windisch (Cologne, Germany)

11:00 **NIV in rapidly progressive diseases: when to start?**
Anita Simonds (London, United Kingdom)

11:30 **Cough assisting**
Peter J. Wijkstra (Groningen, Netherlands)

Alexander III	Session	12:50 - 14:00
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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)

12:50 **Target volume ventilation: when and how?**
Cesare Gregoretti (Palermo, Italy)

13:20 **Alternatives to long-term NIV**
Lara Pisani (Bologna (BO), Italy)

Alexander I	Session	12:50 - 14:00
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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 : Daniele De Luca (Clamart, France)

12:50 **Monitoring of invasive ventilation**
Martin Kneyber (Groningen, Netherlands)

13:20 **Patient-ventilator interaction: assessment and clinical relevance**
Peter Rimensberger (Geneva 14, Switzerland)

Alexander II Session 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)

13:20 **ARDS: state of the art**
Lieuwe Bos (Amsterdam, Netherlands)

Grenander I Session 14:10 - 15:10

Thematic Poster Session: Thematic poster session I

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

Friedrich Wilhelm Session 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
Martin Kneyber (Groningen, Netherlands)

Alexander II Session 15:15 - 17:15

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)

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

15:25 **CON - Lung biopsy in ARDS**
Christian Karagiannidis (Cologne, Germany)

15:35 **Discussion**

15:55 **PRO - NIV in acute hypoxemic failure**
Paolo Navalesi (Milan, Italy)

16:05 **CON - NIV in acute hypoxemic failure**
Alexandre Demoule (Paris, France)

16:15 **Discussion**

16:35 **PRO - Steroids in ARDS**
Stefano Nava (Bologna (BO), Italy)

16:45 **CON - Steroids in ARDS**
Marcus Schultz (Amsterdam, Netherlands)

16:55 **Discussion**

Alexander III	Session	08:00 - 09:30
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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), Michael Dreher (Aachen, Germany)

08:00	Patient selection Nicholas Hart (London, United Kingdom)
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08:30	What are the targets? Marieke L. Duiverman (Groningen, Netherlands)
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09:00	ERS Task Force on long-term NIV in COPD Wolfram Windisch (Cologne, Germany)
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Alexander I	Session	08:00 - 09:30
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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 (Milan, Italy)

08:00	NAVA Peter Rimensberger (Geneva 14, Switzerland)
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08:30	ECMO Speaker to be confirmed
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09:00	High flow nasal cannula in acute and chronic respiratory failure Christopher Milesi (Montpellier, France)
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Alexander II	Session	08:00 - 09:30
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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)

08:00	Mechanical ventilation in obstructive lung disease Lise Piquilloud (Lausanne, Switzerland)
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08:30	Mechanical ventilation in interstitial lung disease Martin Dres (Paris, France)
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09:00	Ventilation strategies during weaning Nicholas Hart (London, United Kingdom)
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Alexander III	Session	09:45 - 12:05
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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 :** Michael Dreher (Aachen, Germany)**How to assess sleep quality during NIV**
Nicholas Hart (London, United Kingdom)**How to establish high-intensity NIV in COPD**
Jens Callegari (Köln, Germany)**How to use transcutaneous CO2 monitoring for long-term NIV**
Friederike Sophie Magnet (Köln, Germany)**What is necessary for neuromuscular patients in addition to NIV?**
Anita Simonds (London, United Kingdom)**Alexander II** Session 10:00 - 12:00

Symposium: Adverse effects of mechanical ventilation

Aims : To understand how mechanical ventilation may induce harm 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 Navalesi (Milan, 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)**Alexander I** Session 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**
Pons Odena Marti (Barcelona, Spain)**Alexander III** Session 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)**Alexander II** Session 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)**Grenander I Session 14:10 - 15:10****Thematic Poster Session: Thematic poster session II****Disease(s) :** Adult acute respiratory failure Chronic respiratory failure Paediatric respiratory failure**Friedrich Wilhelm Session 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)**How to assess sleep quality during NIV**
Jean-Paul Janssens (Genève, Switzerland)**How to establish high-intensity NIV in COPD**
Marieke L. Duiverman (Groningen, Netherlands)**How to use transcutaneous CO₂ monitoring for long-term NIV**
Christian Karagiannidis (Cologne, Germany)**What is necessary for neuromuscular patients in addition to NIV?**
Cesare Gregoretti (Palermo, Italy)**Alexander II Session 15:15 - 17:15****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 Navalesi (Milan, 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)**Alexander III Session 15:15 - 17:15****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 : Jens Callegari (Köln, Germany), Nicholas Hart (London, United Kingdom)

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

15:55 Treatment strategies

16:35 Unsuccessful weaning: what comes next?
Friederike Sophie Magnet (Köln, Germany)

Alexander III	Session	08:00 - 09:30
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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)

08:00	Methods of HRQL assessment Marieke L. Duiverman (Groningen, Netherlands)
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08:30	HRQL in NIV Wolfram Windisch (Cologne, Germany)
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09:00	HRQL in tracheotomized patients Friederike Sophie Magnet (Köln, Germany)
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Alexander I	Session	08:00 - 09:30
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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 Amadeo (Paris, France)

08:00	NIV as a transition from the ICU to the home Pons Odena Marti (Barcelona, Spain)
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08:30	Update on long term CPAP Brigitte Fauroux (Paris, France)
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09:00	Update on long term NIV Linda Corel (Rotterdam, Netherlands)
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Alexander II	Session	08:00 - 09:30
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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)

08:00	Prone positioning and recruitment manœuvre Marcus Schultz (Amsterdam, Netherlands)
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08:30	Extracorporeal CO2 removal Stefano Nava (Bologna (BO), Italy)
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09:00	ECMO Christian Karagiannidis (Cologne, Germany)
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Friedrich Wilhelm	Session	09:45 - 12:05
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Skills workshop: How to set the ventilator based on individual conditions in children

Aims : To learn first line and consecutive settings of a ventilator in children with different conditions.

Disease(s) : Paediatric respiratory failure**Target audience :** 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**Chairs :** Pons Odena Marti (Barcelona, Spain)**7-year old child needing ECMO**

Martin Kneyber (Groningen, Netherlands)

3-month old baby with severe bronchiolitis

Christopher Milesi (Montpellier, France)

28 GA baby with acute respiratory failure

Daniele De Luca (Clamart, France)

2-year old child with congenital myopathy

Alessandro Amaddeo (Paris, France)

Alexander II Session 10:00 - 11:15**Symposium: Diagnostic techniques during mechanical ventilation****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**

Pieter Roel Tuinman (Amsterdam, Netherlands)

10:25 Esophageal pressure monitoring

Laurent Brochard (Toronto (ON), Canada)

10:50 Bronchoscopy in mechanically ventilated patients

Lieuwe Bos (Amsterdam, Netherlands)

Alexander I Session 11:30 - 12:30**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, Sleep specialist/technologist**Chairs :** Brigitte Fauroux (Paris, France)**11:30 Case of a child**

Linda Corel (Rotterdam, Netherlands)

12:00 Case of an infant

Alessandro Amaddeo (Paris, France)

Alexander III Session 11:30 - 12:30**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**11:30 Measurements of nocturnal gas exchange**

Jean-Paul Janssens (Genève, Switzerland)

Alexander II	Session	11:30 - 12:30
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Meet the Expert: Understanding the ventilator waveform

Aims : To understand all points of the waveform and its changes.

Disease(s) : Adult acute respiratory failure

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

11:30 **Understanding the ventilator waveform**
Laurent Brochard (Toronto (ON), Canada)

No Room	Session	13:00 - 15:20
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Skills workshop: How to set the ventilator based on individual conditions in children

Aims : To learn first line and consecutive settings of a ventilator in children with different conditions.

Disease(s) : Paediatric respiratory failure

Chairs : Cesare Gregoretti (Palermo, Italy)

7-year old child needing ECMO
Martin Kneyber (Groningen, Netherlands)

3-month old baby with severe bronchiolitis
Christopher Milesi (Montpellier, France)

28 GA baby with acute respiratory failure
Daniele De Luca (Clamart, France)

2-year old child with congenital myopathy
Alessandro Amaddeo (Paris, France)

Friedrich Wilhelm	Session	13:00 - 15:20
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Skills workshop: Core competency in mechanical ventilation

Aims : 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

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

Target audience : Allied health professional, Clinician, Nurse, Paediatrician, Trainee, Fellow, Respiratory physician, Respiratory therapist, Intensivist/critical care physician, Pulmonologist, Emergency medicine doctor, Physiologist, Anaesthesiologist

Controlled mechanical ventilation modes (PCV, VCV)
Lieuwe Bos (Amsterdam, Netherlands)

Partially supported ventilation modes (PSV)
Christian Karagiannidis (Cologne, Germany)

Measurement of respiratory mechanics (compliance, resistance, PEEPi)
Speaker to be confirmed

Mechanical ventilation in obstructive airway disease
Speaker to be confirmed

Alexander II	Session	13:30 - 15:30
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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)

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| 13:50 | Why can't my patient be weaned?
Martin Dres (Paris, France) |
| 14:15 | How to ventilate difficult to wean patients
Leo Heunks (Amsterdam, Netherlands) |
| 14:40 | Early mobilisation and IMT
Sangeeta Mehta (Toronto, Canada) |
| 15:05 | Swallowing and talking in difficult to wean patients
Nicholas Hart (London, United Kingdom) |

Alexander III	Session	13:30 - 15:30
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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)

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| 13:30 | Individual titration of nocturnal NIV
Jean-Paul Janssens (Genève, Switzerland) |
| 14:10 | Leakages, mask problems and side effects
Jens Callegari (Köln, Germany) |
| 14:50 | The role of obesity
Marieke L. Duiverman (Groningen, Netherlands) |

Alexander II	Session	15:45 - 17:20
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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)

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| 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) |