



*The Intensive Connection*



**Pre-Congress Course Programme  
Mechanical Ventilation  
October 22-23, 2022**

**Day 1, October 22nd, 2022**

**Morning session**

09:00 WELCOME

*L. Heunks, L. Piquilloud*

**Non-invasive respiratory support and obstructive respiratory disease**

09:15 Role of NIRS in acute hypoxemic failure  
*Interactive lecture*

*A. Demoule*

09:45 Helmet in AHF  
*Interactive lecture and practical session*

*M. Antonelli*

10:15 Hypoxemic respiratory failure: case-based discussion  
*Case based discussion*

*JD Chiche*

10:35 Q&A

10:45 NIV / high flow for COPD (acute and chronic)  
*Interactive lecture*

*L. Heunks*

11:05 BREAK

11:35 Invasive mechanical ventilation in COPD/asthma attack patients (invasive)  
*Case based discussion / ventilator screen*

*L. Heunks*

11:55 Q&A

**Basic of invasive respiratory support**

12:05 Controlled mechanical ventilation settings: Basics  
*Interactive lecture*

*L. Piquilloud*

12:35 END MORNING SESSION

**LUNCH BREAK**

**Afternoon session**

13:30 Strategies to set PEEP and to achieve lung recruitment  
*Introductory lecture and debate*

*A. Demoule*

14:15 Assisted mechanical ventilation settings: Basics  
*Lecture and ventilator screen*

*A. Jonkman*

14:45 Respiratory drive: pathophysiology and modulation  
*Interactive lecture*

*C. Guérin*



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15:15 Q&A  
15:30 BREAK



16:00 Patient-ventilator interaction during assisted mechanical ventilation *L. Piquilloud*  
*Case discussion*

16:30 How to assess respiratory mechanics and patient's effort during assisted mechanical ventilation *G. Bellani*  
*Interactive lecture*

**Impact of Mechanical Ventilation on lung and non-pulmonary organs**

17:00 Impact of mechanical ventilation on the lungs *G. Bellani*  
*Interactive lecture*

17:30 Heart-lung interaction during controlled ventilation *M. Dres*  
*Interactive lecture*

18:00 Q&A

18:30 END DAY 1

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**Day 2, October 23rd, 2022**

**Morning session**

09:00 Welcome

*L. Heunks, L. Piquilloud*

**Impact of Mechanical Ventilation on lung and non-pulmonary organs**

09:10 Impact of mechanical ventilation on respiratory muscles  
*Interactive lecture*

*L. Heunks*

09:30 Impact of mechanical ventilation on the brain  
*Interactive lecture*

*JD Chiche*

09:40 Impact of mechanical ventilation on the kidney  
*Interactive lecture*

*A. Schneider*

09:50 Q&A

**Advanced respiratory support in hypoxemic failure**

10:00 Prone position theoretical and practical aspects: mechanical power, close loop  
*Introductory lecture and interview with expert*

*C. Guérin*

10:30 BREAK

11:00 Advanced respiratory monitoring: Transpulmonary pressure and lung volumes  
*Lecture and case discussion*

*A. Jonkman*

11:30 ECMO / ECCOR / ultraprotective ventilation  
*Interactive lecture*

*A. Pesenti*

12:00 The future of ARDS ventilation: mechanical power, EIT guided ventilation, closed loops  
*Interactive lecture*

*JD Chiche*

12:30 Q&A

13:00 END MORNING SESSION

**LUNCH BREAK**

**Afternoon session**

**Ventilator weaning**

14:00 Weaning from mechanical ventilation, the basics  
*Interactive lecture*

*M. Dres*



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14:30 How to improve ventilator weaning: present and future  
*Interactive lecture*

*L. Heunks*

15:00 Prevention of extubation failure  
*Case-based session*

*A. Demoule*

15:30 Safe endotracheal intubation in severe hypoxemic failure

*S. Myatra*

16:00 Q&A

16:30 END DAY 2

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