Mechanical Ventilation – State of the Art 2017

Course directors: JD Chiche, D Chiumello & C Guérin
Dates: November 28-30, 2017
Location: ESICM Brussels Training Centre

Mechanical ventilation – State of the Art Part I: Modules 1 & 2
Mechanical ventilation – State of the Art Part II: Modules 3, 4 & 5

Day 1 (November 28, 2017)

Module 1 - Respiratory physiology: What you really need to know
13.30-14.00: Welcome & registration
14.00-14.30: Gas exchange
14.30-15.00: Basic lung mechanics
15.00-15.45: Transpulmonary pressure measurement
15.45-16.15: Coffee break
16.15-17.00: Advanced lung mechanics: COPD, ARDS & Obesity
17.00-18.00: Lung imaging
18.00-18.30: Not sure I understand… may I ask you?

Day 2 (November 29, 2017)

Module 2 - From respiratory physiology to mechanical ventilation
08.00-10.00: Respiratory physiology Workshop - Small group rotations - 30 min/station
- Pressure-volume curves
- Understanding respiratory monitoring
- Transpulmonary pressures
- Lung imaging
10.00-10.30: Coffee break
10.30-11.10: Patient-ventilator asynchrony
11.10-11.50: Diaphragmatic function: How to explore & preserve?
11.50-12.30: Ventilator-induced lung injury
12.30-13.00: Mechanical Power for dummies
13.00-14.00: Lunch & registration
Day 2 (November 29, 2017)

**Module 3 - Mechanical ventilation for ARDS**

14.00-14.30: Setting PEEP in ARDS patients  
* A Mercat
14.30-15.00: Assisted-breathing in ARDS: pro & cons  
* D Gomers
15.00-16.00: Clinical case based discussion  
* JD Chiche

16.00-16.30: Coffee break

16.30-17.30: Prone position: Why and how?  
* C Guérin
17.30-18.30: Extracorporeal support & adjunctive therapies  
* JD Chiche

*Optional – Meet and greet the Faculty – Dinner downtown*

Day 3 (November 30, 2017)

**Module 4 - Delivering mechanical ventilation**

08.00-08.45: Non-invasive ventilation & High flow nasal canula  
* JD Chiche
08.45-10.45: Mechanical Ventilation Workshop - Small group rotations – 30 min/station  
- PEEP selection strategies & driving pressure optimisation  
  * D Gomers
- Prone position  
  * C Guérin
- From auto-modes to closed loop ventilation  
  * JD Chiche
- Non-invasive ventilation & High flow therapy  
  * D Chiumello

10.45-11.00: Coffee break

11.00-11.30: Ventilatory modes: what’s new?  
* JD Chiche
11.30-12.15: Mechanical ventilation for COPD & asthma  
* C Guérin
12.15-13.00: Clinical case based discussion  
* JD Chiche

13.00-13.45: Lunch

Day 3 (November 30, 2017)

**Module 5 - Caring for the ventilated patient**

13.45-14.15: Weaning from mechanical ventilation  
* L Heunks
14.15-14.45: Tracheostomy: Why and how?  
* D Chiumello
14.45-15.15: Haemodynamics & mechanical ventilation  
* JD Chiche

15.15-15.30: Coffee break

15.30-16.30: Round table - 60 min  
- Just Ask Me Anything – JAMA session  
  * L Heunks, D Chiumello, C Guérin, D Gomers & JD Chiche

16.30-16.45: Course conclusion