



Tuesday - June 16th
HIAE - CESAS ROOM

Cardiovascular & Respiratory Physiology Course
Chairmen: Murillo Santucci Cesar de Assunção and Daniel De Backer

7:00 – 7:15 Registration

7:15 – 7:30 Welcome

07:30 – 11:00 Module: Ventilation

7:30 – 8:00 Static lung and chest wall mechanics
Carmen Silvia Valente Barbas

PEEP **8:00 – 8:30 Pressure-volume curves / Airway measures at the bedside / intrinsic**
Paolo Pelosi

8:30 – 9:00 Lung edema: how does it come and how to evaluate?
Ary Serpa Neto

9:00 – 9:30 Break

gases **9:30 – 10:00 Why is my patient hypoxemic or hypercapnic?: Shunt, VA/Q, and blood**
Gustavo Faissol Janot de Matos

10:00 – 10:30 Lung protective strategies
Paolo Pelosi

10:30 – 11:00 Clinical cases (diagnosis and/or adaptation of ventilatory settings): ventilatory traces / Hypoxemia / Severe COPD
Carmen Silvia Valente Barbas

12:00 – 17:30 Cardiovascular physiology

12:00 – 12:30 The determinants of arterial pressure
Daniel de Backer

12:30 - 13:00 The determinants of cardiac output
Murillo Santucci Cesar de Assunção

13:00 – 13:30 Venous return and effective circulating blood volume
Ary Serpa Neto

13:30 – 14:00 Heart-lung interactions Fluid responsiveness / Fluid challenge
Daniel de Backer

14:00 – 14:30 Assessment of tissue perfusion
Alejandra Del Pilar Gallardo Garrido



14:30 – 15:00 Break

15:00 – 15:30 Pulmonary hypertension & right ventricular dysfunction and R-L interdependence

Daniel de Backer

15:30 – 16:00 Cardiovascular alterations in sepsis

Cardiovascular alterations in sepsis

16:30 – 17:00 Regional blood flow distribution and microcirculation

Daniel de Backer

17:00 – 17:30 Clinical cases : Volume responsiveness and impaired cardiac function

Daniel de Backer