Perioperative ventilatory support and intraoperative mechanical ventilation

**IMPORTANT NOTICE: access is limited to pre-registered delegates**

**Learning objectives:**
This workshop aims at providing basic information on respiratory physiology to help participants understand and use perioperative ventilatory support including intraoperative mechanical ventilation. The speakers will present basic principles of preoperative preoxygenation, apneic oxygenation strategies, procedural oxygenation, intubation and modified rapid sequence intubation (mRSI) bundles. This half-day session includes:

- plenary lectures
- small group hands-on training
- active case simulator
- interactive discussions

**Target audience:** Anaesthesiologists, OR nurses, critical care physicians or anyone interested in the field of perioperative medicine.

**Chair:**
Cesare Gregoretti (Palermo, Italy)

**Panel 1 - Preoperative ventilator support: Periprocedural techniques to prevent oxygen desaturation including modified rapid sequence intubation and fiberoptic intubation, with special emphasis on predicted difficult airways and hypoxemic surgical patients**

Preoxygenation, apneic oxygenation strategies, procedural oxygenation, intubation and mRSI bundles
Massimiliano Sorbello (Catania, Italy)

*Indication for High Flow Oxygen Nasal Therapy (HFONT)*
Salvatore Maurizio Maggiore (Chieti, Italy)

Discussion

**Panel 2 - Ventilatory management strategies**

Effects of anaesthesia on respiratory function during surgery and in the immediate postoperative period
Marcelo Gama de Abreu (Dresden, Germany)

How to identify patients at risk of postoperative pulmonary complications
Paolo Pelosi (Genoa, Italy)

Role of recruitment manoeuvres during intraoperative ventilation
Marcelo Gama de Abreu (Dresden, Germany)

Coffee break

**Panel 3 - Practical case simulation with a lung simulator: “Protective” intraoperative mechanical ventilation in different clinical settings and intraoperative respiratory emergencies including ventilator settings**
Simulation of intraoperative severe asthma  
Salvatore Maurizio Maggiore (Chieti, Italy) 
Cesare Gregoretti (Palermo, Italy)

Simulation of intraoperative severe obese patients  
Paolo Pelosi (Genoa, Italy) 
Cesare Gregoretti (Palermo, Italy)

Difficult intubation with noninvasive respiratory support and use of high flow nasal cannula  
Massimiliano Sorbello (Catania, Italy) 
Salvatore Maurizio Maggiore (Chieti, Italy)

Panel 4 - Postoperative ventilatory support (when to start and when to quit)  
Indication for High Flow Oxygen Nasal Therapy (HFONT)  
Salvatore Maurizio Maggiore (Chieti, Italy)

Indication for Continuous Positive Airway Pressure (CPAP) and for Noninvasive Intermittent Positive Pressure Ventilation (NiPPV)  
Marcelo Gama de Abreu (Dresden, Germany)