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Workshop

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Intraoperative mechanical ventilation: How to adjust ventilation to the patient's needs

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

MONDAY
8 June 2026
10:00 – 14:00
MAAS

About this workshop: This highly interactive, hands-on workshop offers participants the opportunity to explore key principles of the management of intraoperative mechanical ventilation and respiratory function monitoring.

With a focus on simulation-based learning and skill development, the programme showcases both conventional and emerging ventilatory techniques. Participants will engage in practical scenarios guided by experts, using different simulation tools to strengthen their clinical reasoning and decision-making in complex ventilatory settings.

The workshop is designed to offer station-based, experiential learning focused on core ventilatory and monitoring strategies currently in use or under development. It will highlight the indications, limitations, and physiological considerations of each approach.

- Rotational hands-on stations
- Realistic lung models (active and passive)
- Real-time device interaction and case-based learning
- Direct supervision and guidance by experts at each station
- Pre- and post-session polling for feedback and outcome measurement

Learning objectives: By attending the workshop participants will:

- Improve their understanding of the physiology applied to mechanical ventilation.
- Learn how monitoring can assist titration of respiratory support.
- Get familiar with innovative ventilation modes and respiratory monitoring techniques.

Target audience: *Anaesthesiologists, intensivists, respiratory therapists, and trainees seeking hands-on expertise in advanced ventilation modalities*

Chair: Caroline Vanpeteghem (Ghent, Belgium)



10:00 **Introduction**

10:10 **HANDS-ON SESSION 1**

Workstation 1: Resistance and compliance during intraoperative ventilation

Instructor: Lorenzo Ball (Genova, Italy)

Instructor: Cesare Gregoretti (Cefalu, Italy)

Workstation 2: PEEP titration and driving pressure

Instructor: Nuzhet Mert Senturk (Istanbul, Turkey)

Instructor: Vojislava Neskovic (Belgrade, Serbia)

Workstation 3: Expiration and controlled-expiration modes

Instructor: Julia Abram (Innsbruck, Austria)

Instructor: Andrea Cortegiani (Palermo, Italy)

Workstation 4: Recruitment-to-inflation ratio

Instructor: Gianmaria Cammarota (Alessandria, Italy)

Instructor: Jan Mulier (Gent, Belgium)

11:50 *Break*

12:10 **HANDS-ON SESSION 2**

Workstation 1: Ventilation during laparoscopy and robotic surgery

Instructor: Lorenzo Ball (Genova, Italy)

Instructor: Cesare Gregoretti (Cefalu, Italy)

Workstation 2: Ventilation in obese patients

Instructor: Nuzhet Mert Senturk (Istanbul, Turkey)

Instructor: Andrea Cortegiani (Palermo, Italy)

Workstation 3: Ventilation with ultra-narrow airways for ENT

Instructor: Julia Abram (Innsbruck, Austria)

Instructor: Jan Mulier (Gent, Belgium)

Workstation 4: Electrical impedance tomography

Instructor: Gianmaria Cammarota (Alessandria, Italy)

Instructor: Vojislava Neskovic (Belgrade, Serbia)

13:10 **Plenary Simulation**

Facilitator: Lorenzo Ball (Genova, Italy)

13:50 **Wrap-up and final discussion**

Speaker: Caroline Vanpeteghem (Ghent, Belgium)

14:00 **END of the workshop**