SIMLAB 2025
Procedural Training

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

About the workshops: During procedural sessions, hands-on training will be provided on specific perioperative procedures. Instructors will demonstrate the skills and then guide, observe and provide feedback to participants while they perform the procedures on their own. A variety of live models, virtual reality simulators, part task trainers and ultrasound machines will be available to facilitate and improve learning.

The procedural programme includes the following topics:

- Lung and gastric ultrasound
- Paediatric point-of-care ultrasound
- Emergency front of neck access and airway ultrasound
- Brain ultrasound: an open window to the brain of your patient
- Spine ultrasound: insights into spinal medicine and algology
- Cardiac point-of-care ultrasound

Specific learning objectives and target audience are defined for each topic.

PRO

Procedural Workshop

Lung and gastric ultrasound

Learning objectives: During this session, participants will:

- learn how to perform and interpret normal lung ultrasound protocol;
- assess and recognise lung sliding, "A" and "B-lines";
- learn how to diagnose major lung ultrasound pathology;
- learn how to perform gastric ultrasound;
- learn how to recognise an "empty stomach" and interpret stomach content (and volume);
- learn how to use ultrasound to guide pleural drainage;
- perform pleural drainage procedure.

Target audience: *Residents, fellows and practitioners interested in improving/rehearsing their skills and knowledge in the field.*

Instructors: Rosie Hogg (Belfast, United Kingdom)
Thierry Pirotte (Brussels, Belgium)
Julien Picard (Grenoble, France)
Peter Van de Putte (Bonheiden, Belgium)
Dan Benhamou (Paris, France)
Elena Segura Grau (Viseu, Portugal)

PRO

Procedural Workshop

Sunday
25 May 2025
10:30-12:30
SimSpace 2

SIMPRO1
Lung and gastric ultrasound (1)

PRO

Procedural Workshop

Sunday
25 May 2025
13:00-15:00
SimSpace 2

SIMPRO2
Lung and gastric ultrasound (2)

PRO

Procedural Workshop

Paediatric Point-of-Care Ultrasound (POCUS)

Learning objectives: During this session, participants will:

- develop basic hand-eye coordination skills using an ultrasound simulator to optimize proper image acquisition.
- acquire knowledge and skills for performing ultrasound-guided nerve blocks.
- gain expertise in the use of ultrasound in paediatric critical care through targeted knowledge-sharing and simulation practice.
- enhance skills in ultrasound-guided management of difficult intravenous access in paediatric patients.

Target audience: *Residents, fellows and practitioners in anaesthesiology and critical care interested in improving/rehearsing their skills and knowledge in the field.*

Instructors: Omair Malik (Edinburgh, United Kingdom)
Shirley Friedman (Tel Aviv, Israel)
Mia Gisselbaek (Geneva, Switzerland)
Shimon Haim (Tel Aviv, Israel)

PRO

Procedural Workshop

Sunday
25 May 2025
16:15-18:15
SimSpace 2

SIMPRO3
Paediatric point-of-care ultrasound (1)

PRO

Procedural Workshop

Monday
26 May 2025
08:00-10:00
SimSpace 2

SIMPRO4
Paediatric point-of-care ultrasound (2)

PRO
Procedural Workshop

ADVANCED spine ultrasound: insights into spinal medicine and algology

Learning objectives: Spinal medicine is increasingly recognized as a multidisciplinary field that thrives on collaboration between anaesthetists and spinal surgeons, focusing on pain treatment as a disorder while preserving spinal functionality. This workshop emphasizes conservative and minimally invasive strategies to maintain the patient's long-term abilities.

During this session, participants will:

- explore the particularities of spinal ultrasound (cervical and lumbosacral regions), with real-time 2D, 3D, and vector scanning techniques.
- learn how image fusion (sonography and CTscan vs. MRI) can enhance the understanding of spinal anatomy and sonoanatomy in algological procedures.
- perform hands-on needle and instrument insertion on realistic anatomical models.
- be exposed to diverse spinal models and sonographic images, with expert guidance to support skills development.

Target audience: *Practitioners with prior experience in vertebral algology interested in developing their skills and knowledge in the field..*

Instructors: Pierre C. A. Pandin (Brussels, Belgium)
Isabel Estruch-Pons (Brussels, Belgium)
Maëlle Parvais (Brussels, Belgium)
Alexandre Lecucq (Brussels, Belgium)
Alphonse Lubansu (Brussels, Belgium)

PRO
Procedural Workshop

Monday
26 May 2025
09:00-11:30
SimSpace 3

SIMPRO5
ADVANCED Spine ultrasound: insights into spinal medicine and algology

PRO
Procedural Workshop

Emergency front of neck access and airway ultrasound

Learning objectives: During this session, participants will:

- learn and perform basic assessment of the airway using ultrasound;
- learn how to recognise and locate the cricoid membrane using ultrasound;
- learn and perform surgical cricothyrotomy based on the most recent guidelines;
- practice Scalpel cricothyrotomy and Seldinger method cricothyrotomy.

Target audience: *Residents, fellows and practitioners interested in improving/rehearsing their skills and knowledge in the field.*

Instructors: Georges L. Savoldelli (Geneva, Switzerland)
Michael Seltz Kristensen (Copenhagen, Denmark)
Patrick Schoettker (Lausanne, Switzerland)
Gabriele Casso (Lugano, Switzerland)
Audrey De Jong (Montpellier, France)
Olivia Dow (London, United Kingdom)

PRO
Procedural Workshop

Monday
26 May 2025
11:00-13:00
SimSpace 2

SIMPRO6
Emergency front of neck access and airway ultrasound (1)

PRO
Procedural Workshop

Monday
26 May 2025
13:30-15:30
SimSpace 2

SIMPRO7
Emergency front of neck access and airway ultrasound (2)

PRO
Procedural Workshop

BASIC brain ultrasound: an open window to the brain of your patient

Learning objectives: During this session, participants will:

- learn how to perform basic assessment of the brain – recognise basic method of the five reference planes (temporal window);
- learn how to determine structural problems (median shift, ventricular system problems, etc.);
- learn how to visualize anterior and posterior segments of the Willis polygon through the temporal window;
- learn how to assess the intracranial pressure;
- learn the basics of the Transcranial Color-Coded Sonography (TCCS);
- Eyeball/optic nerve sonography how and why (new perspectives).

Target audience: *"Intermediate" neuro-anaesthetists, neuro-intensivists, intensivists or emergency physicians interested in developing/improving their skills and knowledge in the field.*

Instructors: Pierre C. A. Pandin (Brussels, Belgium)
Maelle Parvais (Brussels, Belgium)
Isabel Estruch-Pons (Brussels, Belgium)
Rita Bertuetti (Brescia, Italy)
Brenda Martens (Brussels, Belgium)

PRO
Procedural Workshop

Monday
26 May 2025
16:00-18:00
SimSpace 2

SIMPRO8
BASIC brain ultrasound: an open window to the brain of your patient

PRO
Procedural Workshop

ADVANCED brain ultrasound: an open window to the brain of your patient

Learning objectives: During this session, participants will learn:

- the advanced and integrated handling (BW, Doppler and PW) of the neurosonological method of the five reference brain planes -Complete examination at the patient's bed;
- how to handle the fast neurosonological sequence NEUROFAST for a global brain assessment (integration and complementarity with Brain Function Monitoring);
- the indirect (assessment) and direct (calculation) measurement of ICP;
- how to use of the image fusion modality (neurosono/CTscan, neurosono/MRI) at the patient's bed: development and future perspectives.

The session will also include interactive discussion of neurosonological imaging cases in everyday advanced practice.

Target audience: *"Skilled" neuro-anaesthetists, neuro-intensivists, intensivists or emergency physicians interested in developing/improving their skills and knowledge in the field.*

Instructors: Pierre C. A. Pandin (Brussels, Belgium)
Maelle Parvais (Brussels, Belgium)
Isabel Estruch-Pons (Brussels, Belgium)
Rita Bertuetti (Brescia, Italy)
Brenda Martens (Brussels, Belgium)

PRO
Procedural Workshop

Tuesday
27 May 2025
08:00-10:00
SimSpace 2

SIMPRO9
ADVANCED brain ultrasound: an open window to the brain of your patient

PRO

Procedural Workshop

Cardiac Point-of-Care Ultrasound (POCUS)

Learning objectives: During this session, participants will:

- identify the indications for focused transthoracic cardiac ultrasound in the preoperative period and intensive care unit.
- perform a focused transthoracic cardiac ultrasound examination.
- discuss various methods for assessing fluid responsiveness using cardiac ultrasound.

Target audience: *Novice residents, fellows and practitioners interested in improving their skills and knowledge in the field.*

Instructors: Adrian Wong (London, United Kingdom)
Francesco Corradi (Genova, Italy)
Mateusz Zawadka (Warsaw, Poland)
Eduardas Ambrasas (Vilnius, Lithuania)
Leo Fabig (Berlin, Germany)
Fabian Weisrock (Berlin, Germany)

PRO

Procedural Workshop

Tuesday
27 May 2025
11:00-13:00
SimSpace 2

SIMPRO10
Cardiac point-of-care ultrasound (1)

PRO

Procedural Workshop

Tuesday
27 May 2025
13:30-15:30
SimSpace 2

SIMPRO11
Cardiac point-of-care ultrasound (2)