



## SIMLAB 2024

### Procedural Simulation

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

**About the workshops:** During each of these 2-hour 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.

**Programme overview:** The 2024 procedural simulation programme includes the following topics:



**Emergency front of neck access and airway ultrasound**



**Cardiac and vascular Point-of-Care Ultrasound (POCUS)**



**Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access**



**Brain ultrasound: an open window to the brain of your patient**



**Lung and gastric ultrasound**

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



### PRO

Procedural  
Workshop

## Emergency front of neck access and airway ultrasound

\*\*This workshop is repeated twice

**Learning objectives:** During this session, participants will:

- learn and perform basic assessment of the airway using ultrasound;
- learn how to recognize 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.

**Saturday**  
**25 May 2024**  
10:30-12:30  
**SimSpace 2**

**SIMPRO1**  
**Emergency front of neck access and airway ultrasound (1)**

**Saturday**  
**25 May 2024**  
13:30-15:30  
**SimSpace 2**

**SIMPRO2**  
**Emergency front of neck access and airway ultrasound (2)**



### PRO

Procedural  
Workshop

## Lung and gastric ultrasound

\*\*This workshop is repeated twice

**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 recognize 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.*

**Saturday**  
**25 May 2024**  
16:00–18:00  
**SimSpace 2**

**SIMPRO3**  
**Lung and gastric ultrasound (1)**

**Sunday**  
**26 May 2024**  
08:30–10:30  
**SimSpace 2**

**SIMPRO4**  
**Lung and gastric ultrasound (2)**



### PRO

Procedural  
Workshop

## Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access

\*\*This workshop is repeated twice

**Learning objectives:** During this session, participants will:

- Learn indication and contra-indication of different vascular access in the paediatric patient;
- Learn preferred medication administration routes for specific situations;
- Perform umbilical vein catheterisation and intraosseous access;
- Practice ultrasound-guided vascular access

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

**Sunday**  
**26 May 2024**  
11:00-13:00  
**SimSpace 2**

### SIMPRO5

## Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access (1)

**Sunday**  
**26 May 2024**  
13:30-15:30  
**SimSpace 2**

### SIMPRO6

## Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access (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 – recognize 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.*

**Sunday**  
**26 May 2024**  
16:00–18:00  
**SimSpace 2**

### **SIMPRO7**

## **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.*

**Monday**  
**27 May 2024**  
08:00-10:00  
**SimSpace 2**

### **SIMPRO8**

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



### PRO

Procedural  
Workshop

## Cardiac and vascular Point-of-Care Ultrasound (POCUS)

\*\*This workshop is repeated twice

**Learning objectives:** During this session, participants will:

- learn indications and how to perform a focused cardiac ultrasound examination using Transthoracic echocardiography (TTE);
- practice focused cardiac ultrasound examination on live models and on a virtual simulator;
- learn how to recognize and assess pericardial effusion/cardiac tamponade, left and right ventricular size and function, intravascular volume status;
- learn how to recognize and assess the thoracoabdominal aorta, the inferior vena cava and the proximal deep veins.

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

**Monday**  
**27 May 2024**  
10:30-12:30  
**SimSpace 2**

**SIMPRO9**  
**Cardiac and vascular Point-of-Care Ultrasound (POCUS) (1)**

**Monday**  
**27 May 2024**  
13:00-15:00  
**SimSpace 2**

**SIMPRO10**  
**Cardiac and vascular Point-of-Care Ultrasound (POCUS) (2)**