





### **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:



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

Emergency front of neck access and airway ultrasound

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

### Emergency front of neck access and airway ultrasound

Workshop \*\*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.

**<u>Target audience</u>**: 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	SIMPRO3
16:00-18:00	Lung and gastric ultrasound (1)
SimSpace 2	
Sunday	
26 May 2024	SIMPRO4
08:30-10:30	Lung and gastric ultrasound (2)
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Procedural

Workshop

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# 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

**<u>Target audience</u>**: 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

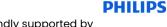
# BASIC brain ultrasound: an open window to the brain of your patient

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.

SundaySIMPRO726 May 2024BASIC brain ultrasound: an open window to the brain of your16:00-18:00BASIC brain ultrasound: an open window to the brain of yourSimSpace 2patient









PRO Procedural Workshop

# <u>ADVANCED</u> 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.

MondaySIMPRO827 May 2024ADVANCED brain ultrasound: an open window to the brain of08:00-10:00your patient







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Procedural Workshop	Cardiac and vascular Point-of-Care Ultrasound (POCUS)	
	**This workshop is repeated twice	
Learning objectives	During this session, participants will:	
	<ul> <li>learn indications and how to perform a focused cardiac ultrasound examination using Transthoracic echocardiography (TTE);</li> <li>practice focused cardiac ultrasound examination on live models and on a virtual simulator;</li> </ul>	
	<ul> <li>learn how to recognize and assess pericardial effusion/cardiac tamponade, left and right ventricular size and function, intravascular volume status;</li> </ul>	
	<ul> <li>learn how to recognize and assess the thoracoabdominal aorta, the inferior vena cava and the proximal deep veins.</li> </ul>	
<u>Target audience</u> :	"Novice and intermediate" residents, fellows and practitioners interested in improving their skills and knowledge in the field.	
<b>Monday</b> <b>27 May 2024</b> 10:30-12:30 <b>SimSpace 2</b>	SIMPRO9 Cardiac and vascular Point-of-Care Ultrasound (POCUS) (1)	

Monday

27 May 2024SIMPRO1013:00-15:00Cardiac and vascular Point-of-Care Ultrasound (POCUS) (2)SimSpace 2

PHILIPS