



PAEDC
Pre-congress
Course

Friday, 31 May
09:00 - 18:00

Point of care ultrasound in neonates and children

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



Learning objectives

This course on the use of ultrasound in children includes lectures on literature update, evidence-based medicine and expert opinions on paediatric vascular accesses. Faculty will cover the basic and advanced use of ultrasound for vascular line placements, diagnostics of chest problems and abdominal ultrasound. Participants will learn how to use ultrasound to improve success rates and patient care, preventing or treating short and long-term complications, when central, peripheral and peripherally inserted central line catheters and arterial lines are inserted. The afternoon session will be dedicated to hands-on practice on phantoms and human models.

By the end of this course, attendees will be able to properly operate a ultrasound machine and make adjustments to obtain adequate image quality, obtain ultrasound images for examination of the vascular structures, adequately apply the use of ultrasound to facilitate the intravascular placement of catheters. Moreover, chest and abdominal ultrasound use in children will be applied.

Target audience: Physicians, nurses and healthcare professionals interested in the field of advanced ultrasound use in children.

Chairs:

Nicola Disma (Genoa, Italy)
Mauro Pittiruti (Rome, Italy)

SESSION 1: ULTRASOUND FOR VASCULAR ACCESS IN NEONATES AND CHILDREN

Ultrasound as a tool for assessing the venous system

Nicola Disma (Genoa, Italy)

Ultrasound-guided venipuncture of deep veins

Christian Breschan (Klagenfurt am Wörthersee, Austria)

Ultrasound for guidance of wires and catheters (tip navigation)

Mauro Pittiruti (Rome, Italy)

Coffee break

Ultrasound for tip location

Nicola Disma (Genoa, Italy)

Ultrasound identification of immediate complications

Daniele Guerino Biasucci (Rome, Italy)

Ultrasound identification of late complications

Mauro Pittiruti (Rome, Italy)

Questions and answers

SESSION 2: ULTRASOUND USE IN THE CRITICALLY ILL PAEDIATRIC PATIENT

Ultrasound in critically ill neonates and children: an overview

Nadya Yousef (Clamart, France)

Thoracic and abdominal ultrasound in paediatric trauma

Daniele Guerino Biasucci (Rome, Italy)

Lung ultrasound in the critically ill

Nadya Yousef (Clamart, France)

Questions and answers

Lunch break



HANDS-ON STATIONS:

Workstation 1: Ultrasound visualisation of peripheral veins of the arm (on model)

Nicola Disma (Genoa, Italy)

Workstation 2: Ultrasound visualisation of central veins of the supra/infraclavicular area (on model)

Mauro Pittiruti (Rome, Italy)

Workstation 3: Ultrasound-guided venipuncture (on simulator)

Christian Breschan (Klagenfurt am Wörthersee, Austria)

Workstation 4: Lung ultrasound (on model)

Nadya Yousef (Clamart, France)

Workstation 5: Abdominal and lung ultrasound for trauma patients and ultrasound for tip location (on model)

Daniele Guerino Biasucci (Rome, Italy)
