



**Sunday, 19 October 2025**

### **Set up an intraosseous device (IOD)**

**Target Audience:** Paediatricians from all subspecialties

No prior ultrasound experience required.

**08:00 am – 12:00 pm:**

Participants will learn to:

- Review anatomical knowledge in children and adults
- Recognise the main indications for intraosseous access
- Recognise contraindications

Teaching programme

- Intraosseous Access
    - Anatomical and physiological principles
    - Review of insertion sites
  - Indications for IOD in adults and children
  - Review of the different IOD systems: manual, percussion and drill
  - Learn how to insert using a drill
    - Handling
    - Insertion at different sites (humeral and femoral)
    - Verification
    - Principles of administering different fluids and medications
  - Contraindications to IOD
- **Training in lumbar puncture (LP) and/or intrathecal injection**
- Participants will learn to:
- Become familiar with the recommendations
  - Review and update your theoretical knowledge of lumbar punctures
  - Explain the procedure to patients in simple terms and answer their questions
  - Perform a lumbar puncture using atraumatic needles
  - Perform subcutaneous local anaesthesia
  - Perform a lumbar puncture under ultrasound guidance
  - Measure cerebrospinal fluid pressure
  - Perform an intrathecal injection
- **Pleural and abdominal drainage procedure**
- Interactive discussions practices regarding the drainage of pleural/abdominal cavities using ultrasound
- Discussion of the clinical indications and role of drainage
  - Landmarks identification and special situations discussion
  - Discussion of technic and materials
  - Recognize the limitations and high risk situations
  - Training