

PEDIATRIC POCUS



ONE DAY

Hands-on Pediatric Ultrasound Training for
Emergency, ICU & General Practice Physicians

Course Description

- The Pediatric Point of Care Ultrasound (POCUS) Course provides healthcare professionals with essential skills to evaluate sick children rapidly and accurately using bedside ultrasound.
- This intensive hands-on program covers pediatric anatomy, common pathologies, image acquisition, interpretation, and clinical integration — all tailored to the unique physiology and presentations of pediatric patients.
- Participants will gain confidence using ultrasound in pediatric emergencies, respiratory distress, abdominal pain, trauma, and shock scenarios.

Course Topics:

1. Pediatric Ultrasound Fundamentals

- Physics & knobology for pediatric imaging
- Probe selection & scanning techniques
- Safe pediatric ultrasound practice

2. Pediatric Lung Ultrasound

- Pneumonia patterns
- Bronchiolitis findings
- Pleural effusion identification
- Pneumothorax (lung sliding, lung point)

3. Pediatric Abdominal & Renal Ultrasound

- Hydronephrosis & renal pathology
- Appendicitis indicators
- Gallbladder & biliary evaluation
- Free fluid assessment in the abdomen



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Course Topics:

4. Pediatric FAST Examination

- Trauma scanning techniques in children
- Interpretation of positive & negative findings
- Limitations & pitfalls in pediatric FAST

5. Pediatric Cardiac Ultrasound (Basic & Advanced ECHO)

- Assessing cardiac function
- Recognizing pericardial effusion
- Basic chamber views for children
- Shock evaluation using POCUS

6. Vascular Access Under Ultrasound Guidance

- Peripheral IV access
- Central line support
- Needle visualization techniques

7. Clinical Case Integration

- Emergency-based case scenarios
- Real-world pediatric presentations
- Applying POCUS to improve decision-making

- Hands-on training includes exposure to real pediatric volunteers when available, the use of high-fidelity phantoms and simulation models, dedicated ultrasound machines for each group, and fully supervised scanning sessions with instructors. The practical component is reinforced through case-based interactive learning to ensure strong clinical understanding and skill development.

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