

PLEURAL & THORACIC ULTRASOUND

TWO DAYS

Hands-on Thoracic Ultrasound & Pleural Procedures
Training for Emergency, ICU & Respiratory Physicians

Course Description

- This two-day advanced program provides clinicians with the essential knowledge and hands-on skills required to perform thoracic ultrasound and ultrasound-guided pleural procedures safely and effectively.
- The course follows RCEM and BTS Thoracic Ultrasound standards (2021), with structured teaching tailored to ACCS, EM, IMT, anesthesia, and critical care trainees.
- Participants will learn to identify pleural and thoracic pathologies, interpret ultrasound findings at the bedside, and perform guided procedures using simulators, real ultrasound machines, and supervised hands-on practice.

Course Topics:

1. Introduction to Thoracic Ultrasound

- Physics & knobology for thoracic imaging
- Probe selection & scanning techniques
- Systematic scanning of anterior, lateral & posterior chest

2. Pleural Effusion Recognition

- Identifying simple vs. complex effusions
- Loculated effusion patterns
- Ultrasound markers of empyema
- Quantifying pleural fluid

3. Pneumothorax & Lung Sliding Assessment

- Lung point, A-lines & B-lines
- Recognizing pneumothorax confidently using ultrasound
- Artifact interpretation in thoracic US

4. Ultrasound-Guided Pleural Procedures

- Safe needle entry & in-plane/out-of-plane approaches
- Thoracentesis technique under ultrasound guidance
- Chest drain insertion principles
- Complication avoidance strategies



+201080663181



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Info@sonoschool.org



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5. Thoracic Pathology Interpretation

- Consolidation
- Atelectasis
- Interstitial syndrome
- Diaphragmatic evaluation

6. Clinical Integration & Case-Based Learning

- Emergency & ICU case scenarios
- Ultrasound triage in respiratory failure
- Applying thoracic US protocols in real practice

- Participants will receive supervised hands-on experience using high-quality ultrasound machines, live volunteers, procedural phantoms, and realistic thoracic models, ensuring they develop full competence in thoracic ultrasound scanning and pleural procedure techniques.

**Hands-on
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