

ADVANCED POCUS

TWO DAYS

Hands-on Advanced Ultrasound Training for Emergency,
Critical Care & General Practice Physicians

Course Description

- This comprehensive 2-day Advanced POCUS program is designed for clinicians who already understand the basics of bedside ultrasound and want to upgrade their skills to an advanced critical care level.
- Participants will learn high-level scanning protocols, focused echocardiography, advanced cardiac evaluation, lung ultrasound in acute respiratory failure, vascular assessment, ocular ultrasound, DVT evaluation, and airway ultrasound.
- The course integrates case-based learning, interactive discussions, and extensive hands-on training using ultrasound machines, volunteers, and phantoms.

Course Topics:

1. Ultrasound Physics

- Advanced image optimization
- Piezoelectric effect & high-resolution scanning
- Probe selection for critical care

2. Cardiac Ultrasound (Advanced ECHO)

- Advanced cardiac windows
- LV & RV function assessment
- Cardiac output estimation
- Recognizing shock patterns using ultrasound
- Focused echocardiography in cardiac arrest

3. Intravascular Volume Assessment

- IVC collapsibility
- Fluid status assessment
- Preload vs. volume responsiveness

4. Pulmonary Ultrasound (Advanced Lung US)

- ARDS patterns
- Lung ultrasound for respiratory failure
- Lung US vs. chest X-ray – accuracy & pitfalls
- Lung sliding, B-lines, consolidations, effusions



+201080663181



www.sonoschool.org



Info@sonoschool.org



AMERICAN ASSOCIATION
of
CONTINUING MEDICAL EDUCATION
the world benchmark for CME standards™

ADVANCED POCUS

TWO DAYS

Hands-on Advanced Ultrasound Training for Emergency,
Critical Care & General Practice Physicians

Course Topics:

5. PE & DVT Ultrasound

- Eyeballing for pulmonary embolism indicators
- Lower limb DVT protocol
- Vein compressibility, clot identification

6. Pericardial Effusion & Tamponade

- Early detection of tamponade
- Hemodynamic correlation

7. Ocular Ultrasound

- Optic nerve sheath diameter
- Indications in raised ICP
- Retinal detachment screening

8. Airway Ultrasound

- Airway anatomy
- Confirmation of endotracheal tube placement
- Identifying cricothyroid membrane

9. Shock & RUSH Protocol (Advanced)

- Step-by-step shock assessment
- Integrating multi-organ ultrasound in critical settings

- Participants will engage in comprehensive hands-on sessions covering Advanced ECHO, lung ultrasound for ARDS and respiratory failure, DVT scanning, ocular and airway ultrasound, and pericardial tamponade recognition. Training also includes fluid status assessment, real clinical case scenarios, and extensive practice using volunteers, phantoms, and supervised ultrasound scanning to ensure practical skill mastery and clinical confidence.

**Hands-on
Ultrasound
Training**



+201080663181



www.sonoschool.org



Info@sonoschool.org



AMERICAN ASSOCIATION[®]
of
CONTINUING MEDICAL EDUCATION
the world benchmark for CME standards™