

SIMULATION POCUS



TWO DAYS

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

Course Description

- This two-day intensive program provides advanced Point-of-Care Ultrasound (POCUS) training through realistic simulation scenarios and hands-on scanning sessions.
- Participants will practice identifying abnormal findings across multiple systems, improving rapid clinical decision-making in emergency and critical care settings.
- Training includes interactive cases, ultrasound machines, live volunteers, and phantoms to ensure safe, confident, and practical skill development under expert supervision.

Course Topics:

1. Introduction & Course Overview

- Course objectives and structure
- Safety principles in simulation-based POCUS
- Understanding abnormal-case learning models

2. Cardiac Ultrasound Cases

- Assessing cardiac function using ultrasound
- Identifying pericardial effusion, poor contractility, and shock markers
- Probe orientation and cardiac windows in simulated patients

3. Lung Ultrasound Cases

- Recognition of pneumothorax, pleural effusion & interstitial patterns
- Lung sliding, B-lines and consolidation simulation models
- Clinical integration of lung findings in emergency settings

4. Trauma Assessment (FAST-Based)

- Using simulation to evaluate intra-abdominal bleeding
- Subcostal, hepatorenal, splenorenal & suprapubic windows
- Interpretation of positive and negative trauma findings



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Course Topics:

5. Renal & Hepatobiliary Abnormal Cases

- Obstructive uropathy & hydronephrosis
- Gallbladder inflammation & biliary dilation
- Hands-on identification of key ultrasound red flags

6. Ultrasound-Guided Invasive Procedures

- Needle visualization and safe approach techniques
- US-guided paracentesis, thoracentesis & vascular access simulation
- Avoiding complications using real-time ultrasound guidance

- Join our Simulation POCUS Course to enhance your skills across multiple systems using realistic abnormal-case simulations, live scanning, and expert-guided practice.
- Hands-on sessions include volunteers, ultrasound machines, and phantoms to ensure a complete practical experience.

**Hands-on
Ultrasound
Training**



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