

# Basic of Critical Care ECHO



**ONE DAY**

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

## Course Description

- This one-day intensive training introduces clinicians to critical care echocardiography (CCECHO) for rapid evaluation and bedside decision-making in emergency and ICU settings.
- Participants will learn essential transthoracic echo (TTE) views, accurate assessment of cardiac function, and recognition of life-threatening findings through a combination of interactive lectures, structured protocols, and hands-on scanning sessions.
- Training includes real ultrasound machines and volunteers under direct supervision by expert instructors.

## Course Topics:

### 1. Introduction to Transthoracic ECHO

- Physics & knobology of ultrasound
- Understanding different TTE windows
- Probe orientation & image optimization
- CCECHO vs. comprehensive ECHO

### 2. Structural Assessment

- LV function assessment (contractility, EF interpretation)
- RV function assessment and right-sided pressures
- Intravascular volume assessment
- Identifying pericardial effusion & tamponade
- Pulmonary Embolism Assessment

### 3. Core TTE Windows

- Parasternal long-axis view
- Parasternal short-axis view
- Apical 4-chamber view
- Subcostal view



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& Critical Care Physicians

## Course Topics:

### 4. Protocols in Critical Care ECHO

- Shock approach using ECHO
- Rush protocol fundamentals
- Cardiac output assessment
- Integrating clinical findings with ultrasound

### 5. POCUS Questions & Case Scenarios

- Real-life case interpretation
- Hands-on problem-solving
- Bedside application in emergency and ICU settings

- Enhance your bedside cardiac assessment skills through guided hands-on practice using real ultrasound machines and live volunteers.
- This course ensures that participants gain the confidence to perform rapid ECHO examinations in critical care situations.

**HANDS-ON  
ULTRASOUND  
TRAINING**



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