

# FUTURE OF SURGICAL TRAINING



## Ultrasound Program Level 1



27 JUNE TO 27 JULY 2025



IRCAD INDIA



# Importance of US in POC

Point-of-care ultrasonography (POCUS) is a critical tool in emergency medicine /Medicine due to its ability to provide **rapid, bedside diagnostic imaging** that directly informs clinical decision-making.

## 1. Speed and Accessibility

POCUS allows emergency physicians to perform and interpret ultrasound scans **immediately at the bedside**, without waiting for radiology departments. This is crucial in time-sensitive situations like trauma, cardiac arrest, or shock

## 2. Improved Diagnostic Accuracy

When used alongside standard diagnostic methods, POCUS significantly increases diagnostic accuracy. By Assessing Heart, Abdomen & Lungs.

## 3. Guidance for Procedures

POCUS is widely used to guide emergency procedures such as:

- Central line placement
- Thoracentesis
- Paracentesis
- Pericardiocentesis This reduces complications and improves success rates.
- Assessing for musculoskeletal injuries, guiding nerve blocks, and evaluating soft tissue infections

## 4. Versatility Across Conditions

It is effective for evaluating a wide range of conditions, including:

- Cardiac function (e.g., pericardial effusion, tamponade)
- Lung pathology (e.g., pneumothorax, pleural effusion)
- Abdominal trauma (e.g., FAST exam)
- Deep vein thrombosis
- Airways assessment.
- Obstetric emergencies
- Head Injury, Fractures.
- Detecting foreign bodies, evaluating testicular torsion, and assessing for bladder distension.

## 5. Enhanced Patient Outcomes

By enabling faster diagnosis and treatment, POCUS contributes to better patient outcomes, especially in all critical care Medicine and trauma settings.

*POCUS provides a precise, cost-effective, and non-invasive diagnosis that carries no risk of ionizing radiation. The application of POCUS determines the health state of both emergency and stable patients.*

*POCUS is ideal for evaluating incapacitated patients- too sick to transport, as such, decreasing the need for patients to be transported to a hospital or imaging centre. This reduces the risk of additional healthcare staff exposure and increases the availability of hospital resources necessary to care for the ill patients.*

*POCUS is essential in many acute resuscitation processes, including hypothermia, hypovolemia, hemoperitoneum, pneumothorax, cardiac tamponade, and pulmonary embolism.*

Day	Topics	Expert Faculty from GE Healthcare	Date	Mode of Delivery	No. of Hours
	<b>Pre- Course Test Assessment</b>		27/06/25	Link will be shared online	15 questions / 20 Min
<b>Day 01</b>	<b>Basics of Ultrasound</b> (2 Day program) Understanding Ultrasound physics & Ultrasound B-Mode images Knobology Practice - 2D	Mrs. Sheetal Desai	28-06-25	Presentation + Hands-on machine	Saturday 2 - 6 pm Sunday 10 am - 4 pm
<b>Day 02</b>	Understanding of Color doppler, Power doppler, M Mode  Understanding of US Probes and Knob  Knobology Practice -Doppler		29-06-25		
<b>Day 03</b>	<b>Ultrasound in Point of Care</b> (2 Day Program) What is POC, Probes in POC, Uses & Application Protocols - Efast, FAST, RUSH Knobology	Mr. Satya Sharma	05-07-25	Presentation + Hands-on machine	Saturday 2 - 6 pm Sunday 10 am - 2 pm
<b>Day 04</b>	Hands-on stations A. Efast B. Basic Lungs C. Nerve block and line placement  Basic echo scanning training with IMP measurement		06-07-25		
<b>Day 05</b>	<b>Vscan - Handheld Ultrasound</b> (1 Day Program) Basic Setup and Vscan Air App walkthrough Importance of key parameters, features and functions Clinical applications as per speciality and user (Anesthesia, critical care, emergency med etc.) Queries	Mr. Amir Asif	20/07/25	Hands-on machine	Sunday 10 am - 4 pm
<b>Day 06</b>	<b>Basic Echo</b> (1 Day program) Basic Echocardiography Heart views and scanning window Basic Cardiac US measurements Queries	Mr. Gopalakrishnan	26/07/25	Hands-on machine	Saturday 2 - 6 pm
	<b>Post test course assessment</b>		27/07/25	Link will be shared online	15 questions / 20 Min



For Registration Please Contact

**₹ 10000 + GST**

(Accommodation not included)

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