



**D.Y. PATIL EDUCATION SOCIETY, DEEMED TO BE
UNIVERSITY,**

D.Y.PATIL MEDICAL COLLEGE, KOLHAPUR

DEPARTMENT OF ANAESTHESIOLOGY

REPORT

Dr. D. Y. Patil Hospital, Kadamwadi
INWARD NO.: 315
DATE : 11-07-2025

TITLE	<u>ALUMNI LECTURE</u>
TOPIC	<u>"BASICS OF 2D ECHO"</u>
DATE	6 TH JULY, 2025.
ORGANISER	Department of Anaesthesiology
INTRODUCTION	<p>A structured hands-on training session on 2D echocardiography was held on 6th July 2025 at the Simulation Lab, D.Y. Patil Medical College and Hospital, Kolhapur. Organized by the Department of Anesthesiology, the session aimed to enhance theoretical and practical understanding of bedside echocardiography among postgraduate residents and consultants.</p> <p>The session, titled "Basics of 2D Echo", was led by Dr. Samrat S. Madnaik, supported by Dr. Sandeep Kadam and Dr. Sheetal Desai. The lecture and demonstration covered the following key areas:</p> <p>Sonographic anatomy: Identification of cardiac chambers, valves, septum, and great vessels.</p> <p>Probe handling and orientation: Focused on image optimization and standard view acquisition.</p> <p>Standard transthoracic views: Parasternal long axis, short axis, apical 4-chamber, and subcostal views.</p> <p>Ejection fraction calculation: Using visual estimation and Simpson's method.</p> <p>Inferior Vena Cava (IVC) assessment: For estimating volume status via collapsibility index.</p> <p>VEXUS scoring: Introduction to the Venous Excess Ultrasound Score using hepatic, portal, and renal venous Doppler patterns to evaluate systemic venous congestion.</p>



DR. D. Y. PATIL
MEDICAL COLLEGE HOSPITAL
& RESEARCH INSTITUTE
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Reg. No. 237/Kolhapur Municipal Corporation

Outward No.: DYPH/MS/303/2025.

Date: 26/6/25

DEPARTMENT OF ANAESTHESIOLOGY

CIRCULAR

There will be a "ALUMNI LECTURE" on Sunday, 29/06/2025 at 09:00 am To 01.00 pm. Compulsory attendance of all Interns, Residents & Faculty.

TOPIC:- BASICS OF 2D ECHO

By

Dr. SAMRAT MADANAIAK

MD, DM (Cardiac Anesthesiology)

VENUE:- Sim Lab Dr. D Y Patil Medical College Hospital & Research Institute, Kadamwadi, Kolhapur.

Dr. D. Y. Patil
MS
26/6/25

Medical Superintendent
Dr. D. Y. PATIL MEDICAL COLLEGE
HOSPITAL & RESEARCH INSTITUTE
KADAMWADI, KOLHAPUR - 415 003



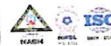
Prof. & Head

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**EVENT
DETAILS**



DR. D. Y. PATIL
MEDICAL COLLEGE HOSPITAL
& RESEARCH INSTITUTE
KADAMWADI, KOLHAPUR

Alumni Lecture on

**BASICS OF
2D ECHO**

Organized by
Department of Anaesthesia

Alumni Speaker

Dr. Samrat S. Madanaik
MBBS, MD, DM (Cardiac Anesthesiology)

Date & Time

Sunday, 06th July, 2025
06.00 PM onwards

Venue

Seminar Hall, Dept. of Anaesthesia,
Dr. D. Y. Patil Medical College Hospital &
Research Institute, Kadamwadi, Kolhapur



OBJECTIVES

The session aimed to:

1. Teach core 2D echocardiographic concepts and anatomy.
2. Demonstrate standard cardiac view acquisition.
3. Train participants in ejection fraction assessment.
4. Introduce IVC and VEXUS-based fluid status evaluation.
5. Present real clinical examples of misdiagnosed cases corrected with echo.
6. Discuss the intraoperative role of echocardiography, including TEE basics.

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By the end of the session, participants were able to:

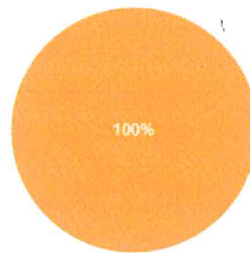
1. Understand basic principles of 2D echocardiography.
2. Identify standard transthoracic views and anatomical landmarks.
3. Estimate left ventricular ejection fraction.
4. Assess fluid status using IVC imaging.
5. Recognize common pathologies such as effusions and septal defects.
6. Apply VEXUS score in evaluating venous congestion and fluid overload.

FEEDBACK & EVALUTATIONS

1. What is the primary modality used in 2D echocardiography?

[Copy chart](#)

6 responses

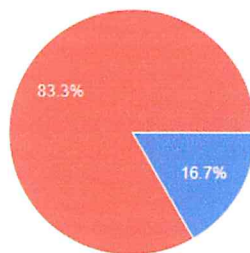


- a) X-Ray
- b) MRI
- c) ULTRASOUND
- d) CT SCAN

2. Which of the following views is most commonly used to access it ventricular function?

[Copy chart](#)

6 responses

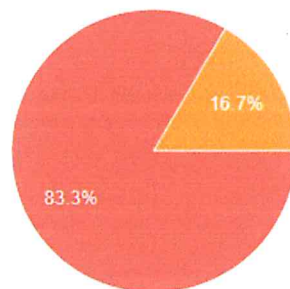


- a) Subcostal View
- b) Parasternal long axis
- c) Suprasternal view
- d) Apical 4 chamber view

3. What is the typical frequency range for a transthoracic echo probe in adults?

[Copy chart](#)

6 responses

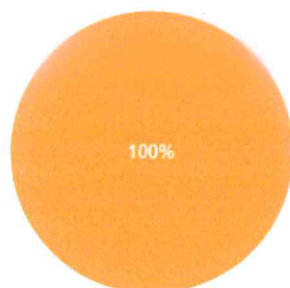


- a) 1-2MHZ
- b) 2-5MHZ
- c) 5-10 MHZ
- d) 10-15 MHZ

4. Which of the following is not a standard 2D Echo view?

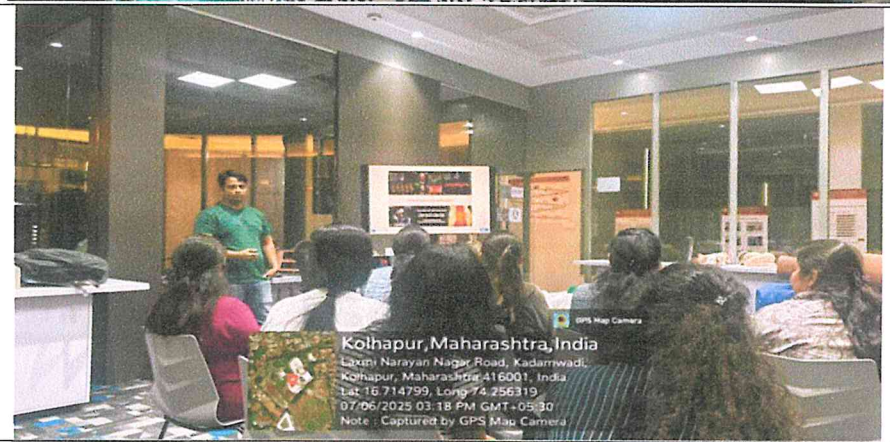
[Copy chart](#)

6 responses



- a) Parasternal long axis?
- b) Subcostal
- c) Coronal
- d) Apical

**GEOTAGGED
PHOTOS**



(Signature)

Medical Superintendent
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(Signature)

PROFESSOR & HEAD
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Prof. HOD- Anaesthesiology
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