



FELLOWSHIP IN

2D ECHOCARDIOGRAPHY

About Us

Medvarsity Online is Asia's largest healthcare Ed-Tech company, with over 2 lakh medical professionals trained and certified. Our partnerships with leading universities globally enable us to present the best courses and faculty to our students and help them meet their learning goals. Medvarsity is on a mission to bridge the gap of skilled medical professionals with over 150 courses in clinical & management areas for doctors, nurses, and general management personnel, covering specialties like Diabetes, Emergency Medicine, Cardiology, Nutrition, Wellness, Healthcare Informatics, Mental Health & more, with all the content being up-to-date.

Medvarsity has presence across 10 locations in India and students across India, Middle East, Africa, and South-East Asia. Our blended training solutions combine the best of traditional e-learning, live virtual classes, clinical bedside learning, mobile learning models to deliver impactful courses to our students.

Course Overview

The 'Fellowship in 2D Echocardiography' course is designed to provide the practitioners with the detailed knowledge required to become competent in echocardiography. This course covers the basics of echocardiography, normal views and values, scan protocols and provides a diagnostic level of knowledge on various cardiac pathologies.

Course Objectives

- To understand the basics of cardiac anatomy/physiology.
- To understand the essential physical principles of cardiac ultrasound.
- To understand the normal views and values in echocardiography.
- Apply routine scan protocols during a 2D/M-Mode/ Doppler (pulse wave, continuous wave and color flow imaging) echocardiographic examination and appropriate measurements.
- Identify normal characteristics of 2D cardiac anatomy and explain the role of cardiac Doppler and the necessary qualitative/ quantitative measurements.
- Understand and assess the ultrasound findings associated with valvular heart disease, cardiomyopathies, ischemic heart diseases (CAD), pericardial disease and cardiac masses and other cardiac disorders.

Course Outline

Session 1

Basics of Echo

- Introduction
- Conventional Echo
- Color Doppler Echo
- The Echo Windows
- Normal Views and Values

Session 2

Echo and Cardiac Disorders

- Ventricular Dysfunction
- Cardiomyopathies
- Coronary Artery Disease
- Systemic Hypertension
- Pulmonary Hypertension
- Diseases of Aorta
- Congenital Diseases
- Valvular Diseases
- Pericardial Diseases
- Endocardial Diseases
- Intracardiac Masses
- Thromboembolic Diseases
- Systemic Diseases

Session 3

Simtics Simulation Modules

- Echocardiography
- Introductory - Basic Scan Techniques, Cardiovascular pathology for sonographers, Ultrasound physics, Ultrasound Physics II
- Echocardiography
 - Basic Echocardiography Techniques
 - Basic Echocardiography Views, ECG
 - Doppler Techniques
 - Embryology & Congenital disorders
 - Endocarditis & Pericarditis
 - TEE & Stress Echo
 - Valve Disease
 - Wall Motion
 - Diastolic Function

Course Highlights

96 Hrs of Learning Content

Clinical training by subject experts

Learn to perform basic echocardiography

Live echo demonstrations

Eligibility

Any MBBS graduate registered with a State Medical Council or the Medical Council of India (MCI)

Duration:

6 months, 96 Hrs (Learning Content)

12 weeks of Skill sessions

Training and Learning Methodology:

Online Learning

The online learning program will be for a duration of 96 Hours. The online content shall be in the form of e-books, recorded videos of lectures covering the module content supported by live lectures during the contact program. A login username and password will be provided to access the content of the learning management system. You can access the course content on a computer or mobile phone at your convenience.

Live Virtual Classes (Webinars)

With healthcare industry undergoing so many advancements, staying updated about latest trends, technologies and guidelines have become vital. Additionally, having these updates through a healthy discussion with experienced clinicians will be the focus of our learning curriculum. Live virtual classes will provide an opportunity for the participants to listen to expert presentations and interact with them through webinars.

Assessment & Certification

- The course is divided into 3 study modules each having an assessment. All these assessments are online and objective.
- The final examination will be conducted online at the end of 1 year following the completion of all the Module tests.
- A minimum of 60% is required in the module tests and the Final Test to be eligible for certification
- On successful completion of the final exam, candidates will be awarded certificate by Medvarsity.





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