



Transthoracic two-dimensional ultrasound in Cardiology

Date: Saturday, 19.09.26

Venue:

Panorama Hotel
Analipseos 26 Panorama,
Thessaloniki, PC 55236, Greece

Participation fee: €500

Maximum number of participants: 32

Faculty: Elias Ninios, Interventional Cardiologist

Target level of education: Advanced

Overview of the course

Two-dimensional ultrasound is the eye of the modern cardiologist when faced with the entire spectrum of cardiac diseases. This informational seminar is the first of two modules on transthoracic ultrasound and covers the most common and important heart diseases through cardiac ultrasound, while aiming to shed light on difficult ultrasound and cardiological issues.

It is based on only the necessary theoretical issues and mainly on real incidents, how-tos, practical advice and tips and tricks.

Learning objectives

- Understanding of the fundamental physics of ultrasonography
- Image optimization and operation, adjustment of ultrasound equipment
- Understanding of advanced cross sectional area ultrasound anatomy of the heart
- Identification of pathological findings in the most common and important heart diseases, enhancing clinical assessment and diagnostic accuracy.
- Interpretation of normal/pathological findings in everyday clinical scenarios.

Scientific programme

08:30 – 09:00 Arrival – Welcome

09:00 Short welcome address by the Scientia representative

09:00–09:30 Basic measurements – Left ventricular wall motion abnormalities

- Imaging technique – How to correctly obtain basic views (4 ch-view, 2 ch-view, 3 ch-view, subxyphoid)
- Dimensions measurement of the left ventricle, ascending aorta, left atrium, interventricular septum
- Tips and tricks
- Which wall am I viewing? How to correctly obtain the sections?
- Left ventricular ejection fraction
- From hypokinesia to myocardial infarction and aneurysm

09:30 – 10:00 Mitral valve regurgitation: organic – functional – mixed

- What to look out for?
- Severity criteria

10:00–11:30 **hands-on**

11:30-11:45 Short coffee break

11:45-12:15 **Aortic valve stenosis**

- Severity assessment
- Low flow – low gradient – how to identify it?

12:15 – 13:45 **hands-on**

13:45 – 14:15 Short lunch break

14:15 – 14:45 **Right ventricle – how to assess contractility and dimensions**

- Tricuspid valve regurgitation
- Assessment of right ventricular pressures and central venous pressure

14:45-15:15 **Left ventricular diastolic dysfunction – TDI, left ventricular strain**

15:15 – 16:45 **hands-on**

16:45 Quiz

17:00 Conclusion – End of seminar