TTECho WEB COURSE

ACADEMIA CARDIOVASCULAR
Sociedade Portuguesa de **CARDIOLOGIA**



Academia Cardiovascular
Sociedade Portuguesa de **CARDIOLOGIA**

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MODULES

Module I – First things first

a. Ultrasound physics
b. 2D Artefacts
c. Doppler Artefacts
d. 2D Image Optimization
e. 3D Echo - Physics and artefacts
f. Echo-anatomy: planes and correlations

Module II – Assessment of Left Heart

a. Left ventricle evaluation - Systole
b. Incremental Value of 3D
c. Incremental value of Myocardial work
d. Ultrasound Enhancement agents – Pearls and pitfalls
e. Left ventricle evaluation - Diastole
f. Let atrium evaluation
g. Diastolic Stress Test

Module III – Assessment of the Right Heart

a. Right ventricle - systole and diastole
b. Pulmonary hypertension and PE

Module IV – ischemic heart disease

a. Coronary heart disease and myocardium
b. Myocardial infarct mechanical complications
c. How to image Devices ECMO, LVAD and others
d. Stress Echocardiography for ischemia

Module V - Cardiomyopathies

a. Hypertrophic Cardiomyopathy
b. Dilated and non-dilated Cardiomyopathy
c. Restrictive cardiomyopathy

Module VI – Mitral Valve

a. Mitral regurgitation
b. Mitral stenosis

Module VII – Aortic Valve

a. Aortic stenosis
b. Aortic regurgitation

Module VIII – Right valves and more

a. Tricuspid and pulmonary valve
b. Stress echo for valves assessment

Module IX – Other Valve Issues

a. Valvular prosthesis Assessment
b. Prosthetic valve stenosis and mismatch
c. Prosthetic valve regurgitation
d. Endocarditis

Module X – When the problem is outside the Heart

a. Aorta disease
b. Systemic Diseases and the heart
c. Oncology and cardiotoxicity
d. Pericardium – How to assess it

Module XI – What doesn't fit in the others …

a. Athletes' heart
b. Adult congenital heart disease
c. Masses and embolic source
d. Carotid and other arteries ultrasound
e. Echocardiography in the Emergency Room
f. Ultrasound guided venous catheterization