EACVI
European Association of Cardiovascular Imaging
European Society of Cardiology

EACVI TTE & TOE Virtual Hands-on Course

Course Directors

Leyla Elif Sade (US), Erwan Donal (FR), Giulia Elena Mandoli (IT), Konstantinos Papadopoulos (GR)

Faculty Members

Nina Ajmone Marsan (NL), Matteo Cameli (IT), Augustin Coisne (FR), Elena Galli (FR), Ruxandra Jurcut (RO), Andreea Motoc (BE), Elena Romero Dorta (DE), Carla Sousa (PT), Elena Surkova (UK)

Course Programme

- **Course #1 – September 2024**

Essentials of speckle tracking strain **– Giulia Elena Mandoli & Andreea Motoc**

By completing this module, the delegates will learn how to best acquire images suitable for strain quantification, how to compute strain on left ventricle, left atrium and right ventricle.

- **Course #2 – October 2024**

Ischaemic Cardiomyopathy **– Elena Galli**

By completing this module, the delegates will learn how to evaluate wall motion abnormalities, assess the global longitudinal strain of the left ventricle with speckle tracking- 2D strain and measure the 3D/4D volumes and 3D/4D ejection fraction in ischaemic cardiomyopathy cases.

- **Course #3 – November 2024**

Assessment of LV and RV with 2D and 3D echocardiography **– L. Elif Sade**

By completing this course, the delegates will learn how to assess the right ventricle with RV strain-speckle tracking. They will familiarize with 3D volume measurements of the LV and RV. Normal and abnormal cases will be included.

- **Course #4: December 2024**

Non-ischaemic cardiomyopathy **– Matteo Cameli & Ruxandra Jurcut**

By completing this module, the delegates will learn how to complete a standard 2D and Doppler protocol in HFpEF, use speckle tracking and 3D/4D echocardiography for the evaluation of cases of hypertrophic cardiomyopathy, infiltrative diseases and LV dyssynchrony (LBBB).

- **Course #5: January 2025**

2D Transoesophageal Echocardiography Study (TOE**) – Elena Romero Dorta & Carla Sousa**

By completing this module, the delegates will learn how to perform a step-by-step complete TOE exam.

❖ Course #6: February 2025

Familiarization with 3D dataset: acquisition and post-processing **– Elena Surkova**

By completing this module, the delegates will be advised on how to acquire the best 3D images and how to post-process the data set (optimization of the images, cropping and navigation).

❖ Course #7: March 2025

Aortic valve **– Konstantinos Papadopoulous**

By completing this module, the delegates will learn how to i) demonstrate the different anatomic variations of aortic valve with 2D and 3D/4D protocols, ii) evaluate aortic stenosis in normal flow and low flow patients, iii) quantify aortic regurgitation cases with TTE and TOE protocols and iv) assess the aortic annulus with 3D/4D echocardiography in TAVI preparation.

❖ Course #8: April 2025

Mitral valve **– L. Elif Sade & Erwan Donal**

By completing this module, the delegates will learn the standard 2D and 3D/4D TTE and TOE protocols for anatomic evaluation of mitral valves, learn how to acquire and interpret the mitral valve "Surgeons' view" and create the MV model through MVQ analysis. Suitability criteria for transcatheter mitral edge-to-edge repair (Mitral-TEER) will also be discussed and demonstrated.

❖ Course #9: May 2025

Mitral regurgitation quantification **– Nina Ajmone Marsan**

By completing this module, the delegates will learn how to implement all qualitative and quantitative EACVI criteria of mitral regurgitation severity into routine clinical practice, master the PISA method and the 3D Vena Contracta Area (VCA) method in several TTE and TOE cases.

❖ Course #10: June 2025

Interatrial septum **– Konstantinos Papadopoulos**

By completing this module, the delegates will learn how to obtain and orient the dataset to display the interatrial septum, PFO and atrial septal defects. They will perform cropping and measurements and recognize structures associated with interatrial septum.

❖ Course #11: July 2025

Tricuspid valve **– Erwan Donal**

By completing this module, the delegates will learn the standard 2D and 3D/4D TTE and TOE protocols for anatomic evaluation of tricuspid valve, create the TV model through TVQ analysis and assess the suitability criteria for transcatheter interventions (Tricuspid TEER).

❖ Course #12: August 2025

Tricuspid regurgitation **– Augustin Coisne**

By completing this module, the delegates will learn how to implement all qualitative and quantitative EACVI criteria of tricuspid regurgitation severity into routine clinical practice such as volumetric and 3D Vena Contracta Area (VCA) methods in several TTE and TOE cases.