

Modular structure of the Echocardiography in ICU training programme. The training programme comprises emergency-introductory, basic and intermediate stages, each one with its own modules. Theoretical and practical content of each module is delivered respectively through blended-learning and supervised practice.

MODULE TYPE	MODULES
Introductory & Emergency modules	<ul style="list-style-type: none"> - Principles of US - Principles of Doppler - “Knobology” - Pitfalls and Artifacts in Echocardiography - Patient safety & consent - Sonoanatomy of the Heart - ACLS Conformed Focused Echo (FEEL) - Screening Focused Echo (FATE)
Basic modules	<ul style="list-style-type: none"> - Qualitative evaluation of the Left ventricle (LV) - Qualitative evaluation of the Right ventricle (RV) - Measuring Inferior (IVC) &/or Superior (SVC) Vena Cava diameter - Measurement of LV Outflow Tract (LVOT) peak velocity and VTI - Measurement of Cardiac Output (CO) - Estimation of peak Pulmonary Artery Pressure (PAPs)
Intermediate modules: Assessment of Ventricular function	<ul style="list-style-type: none"> - Quantification of LV systolic function - Quantification of RV systolic function - LV diastolic function - RV diastolic function - Estimation of Left Atrial Pressure (LAP) - Detection of Myocardial ischemia
Intermediate modules: Valvular Disease	<ul style="list-style-type: none"> - Aortic Stenosis (AS) - Aortic Regurgitation (AR) - Mitral Regurgitation (MR) - Mitral Stenosis (MS) - Tricuspid valve (TV) - Pulmonary valve (PV)
Intermediate modules: Clinical scenarios	<ul style="list-style-type: none"> - General Approach to the Shocked patient - Hypovolaemia, Volume Responsiveness & Filling Status - Tamponade - The Sepsis Syndromes - Effects of Preload and Afterload - Hypoxaemia - Anatomical shunt - Acute Cor Pulmonale (Pulmonary Embolism, ARDS) - Complications of Acute Myocardial Infarction - Chest trauma - Failure to wean from Mechanical Ventilation - Hemodynamic Measurements