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Altri autori (Persone)	FridmanVladimir GarciaMario J
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Nota di contenuto	Practical Manual of Echocardiography in the Urgent Setting; Copyright; Contents; Contributors; Preface; Chapter 1 Ultrasound physics; Ultrasound generation; Image formation; Resolution versus penetration; Doppler ultrasound; Summary and key points; References; Chapter 2 The transthoracic examination; Performing the echocardiogram; Using the transducer; Probe manipulations; Steps involved in a comprehensive transthoracic echocardiogram; References; Chapter 3 Transesophageal echocardiography; Preparation of the patient; Acoustic windows and standard views; Clean-up and maintenance; References Chapter 4 Ventricles Left ventricle; Chamber size; Mass; Functional assessment; Diastolic dysfunction; Regional wall motion assessment;

Right ventricle; Measuring RV volume; Evaluation of RV systolic function [2, 16]; Determination of the central venous pressure (Table 4.3); Abnormal septal motion in RV volume and/or pressure overload; Determination of RV systolic pressure; Atria; Left atrium; Right atrium; Contrast echocardiography; References; Chapter 5 Left-sided heart valves; Aortic valve; Aortic stenosis; Aortic regurgitation; Mitral valve; Mitral stenosis; Mitral regurgitation
References Chapter 6 Right-sided heart valves; Tricuspid valve; Tricuspid regurgitation; Tricuspid stenosis; Pulmonic valve; Pulmonic stenosis; Pulmonic regurgitation; Qp/Qs: Pulmonary to systemic flow ratio; References; Chapter 7 Prosthetic heart valves; Echocardiographic approach to prosthetic heart valves; Approach to suspected valve dysfunction; Structural valve failure; Thrombosis (Figure 7.4); Pannus formation; Thrombus versus pannus; Endocarditis (Figures 7.5 and 7.6); Valve-prosthesis patient mismatch; Pseudo-regurgitation; References; Chapter 8 The great vessels; Aorta
Aortic emergency Pulmonary artery; Pulmonary artery pressure measurement; D-septal shift; References; Chapter 9 Evaluation of the pericardium; Pericardial effusions; Echo-free spaces around the heart; Cardiac tamponade; Echo-guided pericardiocentesis; Constrictive pericarditis; Differentiation of constrictive pericarditis and restrictive cardiomyopathy [10]; Effusive-constrictive pericarditis; References; Chapter 10 Specialty echocardiographic examinations; TTE in a VAD patient; Intracardiac echocardiography; TEE in the operating room
Echocardiography to guide percutaneous closure devices placement
References; Chapter 11 Common artifacts; References; Chapter 12 Hypotension and shock; Determination of central venous pressure, stroke volume, cardiac output, and vascular resistance; Stroke volume; Filling pressures; Pulmonary vascular resistance (PVR) and systemic vascular resistance (SVR); Hypovolemia; Septic shock; Cardiogenic shock due to left ventricular failure; Cardiogenic shock due to right ventricular failure; Cardiogenic shock due to acute valvular insufficiency or shunt
Acute pulmonary hypertension/pulmonary embolism

Sommario/riassunto

This proposed book would cover all aspects of basic echocardiography: the nuts and bolts of ultrasound imaging, all of the views involved in an echocardiogram, step by step guides on how to perform all basic calculations and the normal/abnormal ranges for such calculations, descriptions of views/calculations to perform in any cardiac emergency situations. More importantly, it will include specific diagnostic algorithms fitted to address the differential diagnosis in a variety clinical scenarios. This book is aimed at everybody who is learning to perform and interpret echocardiograms.
