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## DESCRIPCIÓN DEL PRODUCTO

Advanced critical care echocardiography brings many benefits to critical care medicine. For those wishing to practice echo at a more advance level, it is necessary to master the theoretical aspects. The Oxford Textbook of Advanced Critical Care Echocardiography provides a physiological and evidence-based reference guide to the principles and techniques of advanced echocardiography. Both transoesophageal and transthoracic echocardiography are addressed and over 300 videos, 470 figures and, 140 mcqs are included making this an ideal adjunct for courses for intensivists.

The foundations of advanced echocardiography are outlined before specific assessment methods of critical care echo are provided. In reality, most critically ill patients do not suffer only one clinical problem so a section on integrated techniques explains how to answer both common and unexpected critical care questions. Finally the re use of echocardiography in critical care is explored. Important reference values for clinical use can be accessed easily in the appendices.

The Oxford Textbook of Advanced Critical Care Echocardiography includes access to online-only content, consisting of videos, figures and multiple choice questions that can be used to reinforce understanding. This online material can be accessed by activating your unique access code.

Authored by an international team of expert practitioners this textbook reflects the International Consensus Statement on Training Standards for Advanced Critical Care Echocardiography. Designed for trainees and consultants, this resource provides comprehensive and integrated coverage of all aspects of advanced critical care echo.

- Addresses both transoesophageal and transthoracic echocardiography for the full application of critical care echo
- Covers both basic and advanced ultrasound theories as well as cardiovascular and haemodynamic principles.
- Provides clear guidance on how to use echocardiography to evaluate cardiac function and haemodynamics in the critically ill patient
- Throughout high definition images and schematic diagrams demonstrate how to interpret echo images
- Includes videos and multiple choice questions
- Aligned to the International Consensus Statement on Training Standards for Advanced Critical Care Echocardiography

### Índice de Oxford Textbook of Advanced Critical Care Echocardiography 1st edition

#### **PART I: General principles**

1. Basic doppler principles
2. Common doppler artefacts and pitfalls
3. Haemodynamics for echocardiography
4. Cardiac mechanics
5. Heart-lung interactions

#### **PART II: Echo assessments**

6. Left ventricular systolic function
7. Left ventricular diastolic function
8. Right Ventricular Function
9. Pulmonary hypertension
10. Preload and fluid responsiveness
11. Cardiac output measurement
12. Pericardial Effusion & Cardiac Tamponade
13. Dynamic left ventricular outflow tract obstruction
14. Valvular stenosis
15. Valvular Regurgitation
16. 16 Adult Congenital Heart Disease
17. Miscellaneous

#### **Part III: Integrative Approach**

18. Hypotension
19. Acute Pulmonary Embolism
20. Septic shock
21. Acute respiratory failure
22. Chest pain

- 23. Post-cardiac surgery
- 24. Trauma
- 25. Mechanically ventilated patients

**Part IV: Future Developments**

- 26. Strain, twist and torsion in left ventricular assessment
- 27. Strain imaging in right ventricle assessment
- 28. Contrast echocardiography
- 29. 3D Echocardiography in the Intensive Care
- 30. Accreditation in Advanced Critical Care Echocardiography

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