

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