

# Contents

Contributors, ix

Introduction, xiii

**Chapter 1** Shock, 1

*Marius Terblanche and Nicole Assmann*

**Chapter 2** Resuscitation in Intensive Care, 22

*David A. Zideman*

**Chapter 3** Cardiovascular Monitoring in Critical Care, 42

*Michael R. Pinsky*

**Chapter 4** Cardiovascular Investigation of the Critically Ill, 62

*Susanna Price and Jeremy J. Cordingley*

**Chapter 5** Haematological Aspects of Cardiovascular  
Critical Care, 83

*Kanchan Rege and Mark J.D. Griffiths*

**Chapter 6** Cardiovascular Support: Pharmacological, 100

*Joseph E. Arrowsmith and Florian Falter*

**Chapter 7** Arrhythmias, 120

*Hugh Montgomery and Vivek Sivaraman*

**Chapter 8** Mechanical Heart Failure Therapy, 139

*Richard Trimlett*

**Chapter 9** Care of the High Risk Patient Undergoing Surgery, 154

*Justin Woods and Andrew Rhodes*

**Chapter 10** Adult Congenital Heart Disease: Principles of  
Management in Critical Care, 167

*Susanna Price and Brian Keogh*

**Chapter 11** Common Complications of Cardiovascular  
Critical Illness, 193

*Simon J. Finney and Mark J.D. Griffiths*

**Chapter 12** Haemodynamic Management of Severe Sepsis, 218

*Jean-Louis Vincent*

**Chapter 13** Acute Coronary Syndromes and Myocardial Infarction, 234

*Alex Hobson and Nick Curzen*

- Chapter 14** Cardiogenic Shock, 256  
*Divaka Perera and Gerald S. Carr-White*
- Chapter 15** Peri-operative Care of the Heart Transplant Recipient, 279  
*Keith McNeil and John Dunning*
- Chapter 16** Adult Congenital Heart Disease Syndromes, 290  
*Antonia Pijuan Domènech, Katerina Chamaidi and Michael A. Gatzoulis*
- Chapter 17** Management of Arrhythmias in Adults with Congenital Heart Disease, 303  
*Barbara J. Deal*
- Chapter 18** Mitral Valve Disease, 315  
*Susanna Price and Derek Gibson*
- Chapter 19** Aortic Valve Disease, 329  
*Susanna Price and Derek Gibson*
- Chapter 20** Infective Endocarditis, 347  
*David Hunter and John Pepper*
- Chapter 21** Pulmonary Hypertension and Right Ventricular Failure, 367  
*Alain Vuylsteke*
- Chapter 22** Aortic Dissection, 383  
*Maninder S. Kalkat, Vamsidhar B. Dronavalli, David Alexander and Robert S. Bonser*
- Chapter 23** Emergency Management of Cardiac Trauma, 401  
*James Napier and Mark Messent*
- Chapter 24** Hypertensive Crises, 413  
*Liao Pinhu and Mark J.D. Griffiths*
- Chapter 25** Pregnancy, 424  
*Lorna Swan*
- Chapter 26** Vasculitis, 434  
*Lorna Swan*
- Chapter 27** Endocrine Problems and Cardiovascular Critical Care, 442  
*Phil Marino and Susanna Price*
- Chapter 28** Haemodynamic Monitoring and Therapy: A Personal History 1961–1994, 454  
*Ronald Bradley*
- Index, 465

*The colour plate section can be found facing p. 82*