

Features:

- Covers the full spectrum of contemporary cardiothoracic anesthesia practice, including preoperative assessment, physiology, pharmacology, monitoring, transesophageal echocardiography, coagulation, specific cardiac procedures, extracorporeal circulation, postoperative pain treatment, and management of the complex patient with cardiac disease.
- Includes expanded coverage of critical care topics, reflecting the increased perioperative care now provided by anesthesiologists in the ICU.
- Contains new chapters on Structural Heart Disease Procedures; Cardiorespiratory Effects of COVID-19; Critical Care Ultrasound; Intensive Unit Management of Patients on Mechanical Circulatory Support; and Postoperative Care of the Heart and Lung Transplant Patient.
- Features more than 900 full-color illustrations, decision trees, charts, and graphs (over one-third are new) that aid in visual understanding of complex topics.
- Provides access to over 120 videos, including a range of echocardiography clips.
- Contains balanced, dependable, and updated content on all aspects of the anesthetic management of cardiac surgical procedures, as well as cardiology procedures performed in catheterization and electrophysiologic laboratories.
- Places new emphasis on cardiac devices requiring perioperative care, including cardiac implanted electrical devices and ventricular assist devices.
- An eBook version is included with purchase. The eBook allows you to access all of the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

Περιεχόμενα:**Section 1 PREOPERATIVE ASSESSMENT AND MANAGEMENT****1. The Cardiac Consult: Cardiac Risk and Cardiovascular Evaluation**

Manish Bansal, Jagat Narula, Partho Sengupta and Valentin Fuster

2. Cardiovascular Imaging

Manish Bansal, Valentin Fuster, Jagat Narula and Partho Sengupta

3. The Cardiac Catheterization Laboratory: Diagnosis and Therapeutic Procedures in Adults

Theresa Anne Gelzinis, Mark Kozak, Charles E. Chambers and John T. Schindler

4. Cardiac Electrophysiology: Diagnosis and Treatment

Charles W. Hogue

5. Cardiac Implantable Electrical Devices

Marc A. Rozner

Section 2 CARDIOVASCULAR PHYSIOLOGY, PHARMACOLOGY, MOLECULAR BIOLOGY, AND GENETICS

6. Cardiac Physiology

Paul Pagel

7. Coronary Physiology and Atherosclerosis

Benjamin Hibbert, Howard Nathan and Edward O'Brien

8. Molecular and Genetic Cardiovascular Medicine

Amanda Arlene Fox, Sonal Sharma, Paul Mounsey and Marcel Durieux

9. Systemic Inflammation

Richard Whitlock and Elliott Bennett-Guerrero

10. Pharmacology of Anesthetic Drugs

Laeben Lester, Nahni Mitter, Daniel E. Berkowitz and Dan Nyhan

11. Cardiovascular Pharmacology

Roger L. Royster

Section 3 MONITORING

12. Electrocardiographic Monitoring

Paul Barash, Gina Badescu, Ben Sherman and James R. Zaidan

13. Hemodynamic Monitoring

Alexander J.C. Mittnacht

14. Transesophageal Echocardiography, Part I: 2D/Basic TEE

Ronald A. Kahn, Timothy Maus, Ivan Salgo, Menachem M. Weiner and Stanton K. Shernan

15. Transesophageal Echocardiography, Part II: 3D/Advanced Echo

Sasha Kristi Shillcutt

16. Decision-Making with TEE

Stuart J. Weiss, Joseph S. Savino and Jared Feinman

17. Education and Simulation in Echocardiography

Khurram Owais and Feroze Mahmood

18. Central Nervous System Monitoring

Harvey L. Edmonds Jr., Warren J. Levy and Emily K. Gordon

19. Coagulation Monitoring

Linda Shore-Lesserson, Liza Jeanne Enriquez and Nathaen Weitzel

Section 4 ANESTHESIA FOR CARDIAC SURGICAL PROCEDURES

20. Myocardial Revascularization

Alexander J.C. Mittnacht, Martin J. London, John D. Puskas and Joel A. Kaplan

21. Valvular Heart Surgery: Repair or Replace

Harish Ramakrishna, Ryan C. Craner and Patrick DeValeria

22. Congenital Heart Disease in Adults

Victor C. Baum and Duncan G. de Souza

23. Thoracic Aorta

Prakash A. Patel, Yianni Augoustides, Enrique J. Pantin and Albert T. Cheung

24. Uncommon Cardiac Diseases

Greg Nuttall

25. Anesthesia for Heart, Lung, and Heart-Lung Transplantation

Andrew W. Murray, Joseph J. Quinlan, Brian Blasiolo and Phillip Adams

26. Pulmonary Thromboendarterectomy

Dalia Banks

27. Procedures in the Hybrid Operating Room

Wassem Zakaria Aziz Zakhary and Joerg Karl Ender

28. Mechanical Assist Devices for End-Stage Heart Failure

Marc E. Stone and Joseph Hinchey

29. Redo-Operations, Rebleeds, and Other Combined and Complex Cardiac Surgery

Amanda Rhee and Joanna Chikwe

30. Patient Safety and Avoiding Errors

Joyce Wahr, T. Andrew Bowdle and Nancy A. Nussmeier

Section 5 EXTRACORPOREAL CIRCULATION

31. Cardiopulmonary Bypass Management and Organ Protection

Hilary P. Grocott, Mark Stafford-Smith and Christina T. Mora-Mangano

32. Update on Extracorporeal Devices

Robert C. Groom

33. Extracorporeal Membrane Oxygenation

Jacob T. Gutsche, Harish Ramakrishna and Octavio Pajaro

34. Fluid and Blood Management

Colleen Koch, Keyvan Karkouti and Simon Body

35. Bleeding and Coagulation Disorders

Sarah Armour, Bruce D. Spiess and Joel A. Kaplan

36. Discontinuing Cardiopulmonary Bypass

Liem Nguyen, David M. Roth, Jack S. Shanewise and Joel A. Kaplan

Section 6 POSTOPERATIVE CARE

37. Fast Track Management and Outcomes

Davy C.H. Cheng, Daniel Bainbridge and Stefan Probst

38. Postoperative Cardiovascular Management

Jerrold H. Levy, Kamrouz Ghadimi, James M. Bailey and James G. Ramsay

39. Postoperative Respiratory Care

Thomas L. Higgins and Daniel Engelman

40. Central Nervous System Dysfunction after Cardiopulmonary Bypass

John M. Murkin

41. Long Term Complications and Management

Martin Birch, Monica Lupei, Michael Wall and Julia Weinkauff

42. Pain Management for the Postoperative Cardiac Patient

Mark A. Chaney

Section 7 THE CARDIAC PATIENT FOR NONCARDIAC SURGERY[saves 400 pages]

43. Perioperative Cardiovascular Evaluation and Management for Noncardiac Surgery

Kamrouz Ghadimi, Annemarie Thompson and Lee A. Fleisher

44. Managing Patients with Cardiac Stents

Emilio Benjamin Lobato and Anthony A. Bavry

45. Ventricular Assist Devices, Cardiac Transplants, and Implanted Electrical Devices in Noncardiac Surgery

Swapnil Khoche and Brett Cronin

46. Role of Echocardiography (TTE and TEE) in Noncardiac Surgery

Byron Ferguson

47. GDT, ERA, and Perioperative Home for Cardiac Patients in Noncardiac Surgery

Gerard R. Manecke and Maxime Cannesson

48. Vascular Surgery: Endovascular and Open Surgery

Elizabeth A. Valentine and E. Andrew Ochroch

49. The Cardiac Patient for Thoracic Noncardiac Surgery

Peter D. Slinger, Edmond Cohen and Steven M. Neustein

50. The Pregnant Patient with Cardiac Disease

Menachem M. Weiner, Joshua Hamburger and Yaakov Beilin

51. Critical Care Medicine Consults in the Operating Room

Torin Shear, Jeffrey Katz, Steven B. Greenberg and Jeffery S. Vender

52. Postoperative Care to Reduce Major Adverse Cardiac Events and Mortality in Noncardiac Surgery

Giovanni Landoni