

# Contents

Contributors ix

Preface xi

Acknowledgments xiii

## SECTION I: OVERVIEW OF CARDIOVASCULAR CARE 1

### 1. THE INTERPROFESSIONAL TEAM: FOCUS ON QUALITY 3

*Lois A. Wessel, Bernard J. Horak, Kelley M. Anderson, and Samantha J. Bullock*

### 2. THE CARDIOVASCULAR HISTORY 23

*Erin K. Coughlin, Dana E. Haggett, and Kelley M. Anderson*

### 3. THE COMPREHENSIVE CARDIOVASCULAR PHYSICAL EXAMINATION 49

*Kelley M. Anderson*

### 4. PREOPERATIVE CARDIOVASCULAR RISK ASSESSMENT AND EVALUATION FOR NONCARDIAC SURGERY 91

*Ladan Eshkevari, Catherine Horvath, Denise H. Tola, and Donna M. Jasinski*

## SECTION II: CHRONIC CARDIOVASCULAR CONDITIONS 119

### 5. HYPERTENSION 121

*John N. Meriwether and Dorothy L. Murphy*

### 6. LIPID METABOLISM DISORDERS 131

*John N. Meriwether and Dorothy L. Murphy*

### 7. DIABETES AND THE METABOLIC SYNDROME 147

*John N. Meriwether*

### 8. CHEST PAIN 155

*John N. Meriwether and Dorothy L. Murphy*

### 9. STABLE ISCHEMIC HEART DISEASE 161

*Dorothy L. Murphy and John N. Meriwether*

### 10. VALVULAR HEART DISEASE 177

*Dorothy L. Murphy*

### 11. CHRONIC HEART FAILURE 211

*Dorothy L. Murphy and Kelley M. Anderson*

**SECTION III: CARDIAC ELECTROPHYSIOLOGY 233**

- 12. COMMON ELECTROPHYSIOLOGY PRESENTATIONS 235**  
*Robert L. McSwain*
- 13. COMMON CONDITIONS FOR ELECTROPHYSIOLOGY REFERRAL 243**  
*Robert L. McSwain*
- 14. ELECTROPHYSIOLOGY DIAGNOSTIC STUDIES AND CARDIOVASCULAR  
IMPLANTED ELECTRONIC DEVICES 261**  
*Robert L. McSwain*

**SECTION IV: VASCULAR DISORDERS 271**

- 15. PERIPHERAL ARTERIAL DISEASE 273**  
*Constance Ryjewski*
- 16. ABDOMINAL AORTIC ANEURYSM 293**  
*Kelley M. Anderson*

**SECTION V: ACUTE CARDIOVASCULAR CONDITIONS 309**

- 17. HYPERTENSIVE EMERGENCIES 311**  
*Helen F. Brown and Linda Briggs*
- 18. ACUTE CORONARY SYNDROME 319**  
*Linda Briggs*
- 19. ACUTE DECOMPENSATED HEART FAILURE 359**  
*Linda Briggs and Kelley M. Anderson*
- 20. SHOCK STATES: CARDIOGENIC AND OBSTRUCTIVE 375**  
*Linda Briggs*
- 21. AORTIC DISSECTION 389**  
*Helen F. Brown and Linda Briggs*
- 22. PERICARDITIS AND INFECTIVE ENDOCARDITIS 397**  
*Linda Briggs*
- 23. SYNCOPE 407**  
*Helen F. Brown and Linda Briggs*
- 24. SUDDEN CARDIAC DEATH AND CARDIAC ARREST 419**  
*Linda Briggs*

<b>SECTION VI: CARDIOVASCULAR DIAGNOSTICS</b>	<b>427</b>
<b>25. DIAGNOSTIC LABORATORY EVALUATIONS</b>	<b>429</b>
<i>Brittany C. Moore, Lauren Wenhold, and Kelley M. Anderson</i>	
<b>26. NONINVASIVE DIAGNOSTIC TESTING: ELECTROCARDIOGRAPH AND ULTRASOUND</b>	<b>463</b>
<i>Brian C. Case and Monvadi B. Srichai</i>	
<b>27. NONINVASIVE DIAGNOSTIC TESTING: RADIOGRAPHIC AND NUCLEAR IMAGING</b>	<b>499</b>
<i>Brian C. Case and Monvadi B. Srichai</i>	
<b>SECTION VII: CARDIOVASCULAR THERAPEUTICS AND INTERVENTIONS</b>	<b>527</b>
<b>28. INTEGRATION OF THERAPEUTIC LIFESTYLE INTERVENTIONS</b>	<b>529</b>
<i>Patricia Matticola and Rachel Barish</i>	
<b>29. PHARMACOTHERAPEUTICS OF HYPERTENSION AND HYPERTENSIVE EMERGENCIES</b>	<b>561</b>
<i>Dev Chatterji and Connie H. Yoon</i>	
<b>30. PHARMACOTHERAPEUTICS OF HYPERLIPIDEMIA</b>	<b>583</b>
<i>Dev Chatterji and Jonathan Richard E. Puhl</i>	
<b>31. ANTITHROMBOTIC THERAPY AND PHARMACOTHERAPEUTICS OF THROMBOTIC DISEASE STATES</b>	<b>589</b>
<i>Connie H. Yoon and Dev Chatterji</i>	
<b>32. PHARMACOTHERAPEUTICS OF ISCHEMIC HEART DISEASE</b>	<b>615</b>
<i>Connie H. Yoon</i>	
<b>33. PHARMACOTHERAPEUTICS OF HEART FAILURE AND ACUTE DECOMPENSATED HEART FAILURE</b>	<b>631</b>
<i>Dev Chatterji</i>	
<b>34. PHARMACOTHERAPEUTICS OF CARDIAC ARRHYTHMIAS</b>	<b>643</b>
<i>Connie H. Yoon</i>	
<b>35. PHARMACOTHERAPEUTICS OF CARDIAC EMERGENCIES</b>	<b>653</b>
<i>Connie H. Yoon</i>	
<b>36. DIAGNOSTIC AND THERAPEUTIC CATHETERIZATION PROCEDURES</b>	<b>663</b>
<i>Venkatesh K. Raman</i>	
<i>Appendix: Tables of Cardiovascular Guidelines</i>	<i>679</i>
<i>Section References</i>	<i>693</i>
<i>Index</i>	<i>777</i>