

Contents

SECTION 1 DIAGNOSIS OF HEART DISEASE

1 History and Physical Examination, 1

Alexandra V. Crooks

2 Radiology of the Heart, 22

Wilfried Mai

3 Electrocardiography, 48

Larry Patrick Tilley and Francis W.K. Smith, Jr.

4 Echocardiography and Doppler Ultrasound, 70

Virginia Luis Fuentes

5 Special Diagnostic Techniques for the Evaluation of Cardiac Disease, 84

Sonja S. Tjostheim

SECTION 2 CARDIOVASCULAR DISEASE

6 Acquired Valvular Disease, 92

Jonathan A. Abbott

7 Canine Cardiomyopathy, 118

Joanna Dukes-McEwan

8 Feline Cardiomyopathy, 141

Kristin A. MacDonald

9 Cor Pulmonale and Pulmonary Thromboembolism, 168

Jennifer C. Chan and Lynelle R. Johnson

10 Heartworm Disease, 175

Justin D. Thomason

11 Pericardial Disorders and Cardiac Tumors, 184

Amanda E. Coleman

12 Congenital Heart Disease, 204

Alexandra V. Crooks and Mark A. Oyama

13 Cardiovascular Effects of Systemic Diseases, 223

Donald Paul Schrope and Carl D. Sammarco

14 Systemic Hypertension, 256

Rebecca L. Stepien

SECTION 3 TREATMENT OF CARDIOVASCULAR DISEASE

15 Pathophysiology and Therapy of Heart Failure, 266

Darcy Adin

16 Treatment of Cardiac Arrhythmias and Conduction Disturbances, 291

Marc S. Kraus and Anna R.M. Gelzer

17 Cardiopulmonary Arrest and Resuscitation, 305

Vincent J. Thawley

18 Emergency Management and Critical Care, 314

Kari Santoro Beer

19 Anesthesia of the Cardiac Patient, 327

Ciara Ann Barr

20 Cardiac Surgery, 344

E. Christopher Orton

21 Pacemaker Therapy, 352

Janice M. Bright and Brianna M. Potter

22 Nutrition and Cardiovascular Disease, 364

Lisa M. Freeman and John E. Rush

Appendix 1 Canine and Feline Breed Predispositions for Heart Disease, 375

Appendix 2 Cardiopulmonary Drug Formulary, 378

Appendix 3 Echocardiographic Normal Values, 392

Appendix 4 Available Canine and Feline Genetic Tests for Breed-Specific Cardiac Diseases, 396

Index, 397