Contents

Section 1: The Emergency Department

1. **How to Evaluate Dyspnea in the Emergency Department?** 3
   W Frank Peacock

2. **Acute Heart Failure Disposition** 12
   Phillip D Levy, Vijaya A Kumar

3. **Using Natriuretic Peptides in the Emergency Department** 21
   Yang Xue, Elizabeth Lee, Jeffrey Chan, Sonal Sarkariya, Erik A Green, Alan S Maisel

4. **Role of Ultrasound in the Management of Acute Heart Failure** 32
   Luna Gargani

5. **Use of Bioelectrical Impedance Vector Analysis in the Dyspneic Patient** 41
   Salvatore Di Somma, Silvia Navarin

6. **Mechanical Ventilation in Acute Heart Failure: The Role of Noninvasive Ventilation** 50
   Josep Masip, Kenneth Planas

7. **When to Employ Cardiac Magnetic Resonance Imaging and Cardiac Computed Tomography in the Evaluation of Heart Failure?** 62
   Kimberly C Atianzar, Joel R Wilson

8. **When to Discharge the Heart Failure Patient?** 78
   Benjamin A Kipper

Section 2: Heart Failure in the Hospital

9. **Approach to Diuretics in the Hospital** 89
Meghana G Halkar, Wai Hong W Tang

10. **Vasodilators in Acute Heart Failure** 103
Shiro Ishihara, Alexandre Mebazaa

11. **When and How to Use Inotropes?** 108
John Parissis, Vasiliki Bistola

12. **Practical Approach to Hyponatremia in Heart Failure** 119
Rajeev C Mohan, Hirsch S Mehta, JT Heywood

13. **Heart Failure and Acute Coronary Syndrome** 131
Kevin S Shah

Section 3: Chronic Heart Failure Patients in the Outpatient Setting

14. **Echocardiography: Getting It Right** 143
Nicholas A Marston, Daniel G Blanchard, Jeremy Egnatios

15. **Initiation of Angiotensin Converting Enzyme Inhibitors and Beta-blockers in Heart Failure: Putting Evidence into Practice** 153
Boris Arbit, Alan S Maisel

16. **Atrial Fibrillation Done Right** 160
Amir A Schricker, David E Krummen

17. **Ventricular Tachycardia Done Right** 172
Gautam G Lalani, David E Krummen

18. **Management of the Patient with Heart Failure with Preserved Ejection Fraction** 181
Alan S Maisel, Gerasimos S Filippatos, Kevin S Shah, Jeffrey Chan

19. **Implantable Cardioverter Defibrillator and Cardiac Resynchronization Therapy in Heart Failure Patients: How to Choose the Right Device?** 192
Khwaja S Alim, Erik A Green

20. **Clinical Decision-making in the Outpatient Setting: the Use of Galectin-3** 199
Rogier van der Velde, Wouter C Meijers, Rudolf A de Boer

21. **ST2: How to Really Do It Right?** 208
Jason M Duran, Lori B Daniels

22. **Use of Cardiac Troponin to Assist in the Management of Patients with Congestive Heart Failure: A Practical Guide** 217
Affan B Irfan, Wayne Miller, Allan S Jaffe

Section 4: Special Issues in Heart Failure

23. **Heart Failure in the Nursing Home Setting** 231
Corrine Y Jurgens

24. **Heart Failure from the Nursing Perspective** 241
Nancy M Albert

Section 5: Advanced Heart Failure

25. **Left Ventricular Assist Device Versus Transplantation: How to Decide?** 277
Patrick McCann, Eric Adler

26. **Approach to Left Ventricular Assist Devices and Follow-up in Advanced Congestive Heart Failure** 284
Anthony J Choi, Keshav R Nayak, Brian E Jaski

27. **How to Approach Palliative and End-of-life Care?** 296
Tiny Jaarsma, Anna Strömberg

Section 6: Cardiomyopathies: Practical Recommendations to Diagnosis and Management

28. **Hypertrophic Cardiomyopathy** 305
Christian Prinz, Lothar Faber, Alan S Maisel

29. **Takotsubo Syndrome** 315
Andrew C Morley-Smith, Alexander R Lyon

30. **Myocarditis** 323
Michel Noutsias

31. Acquired Immune Deficiency Syndrome Induced Cardiac Abnormalities and Heart Failure **348**
Khwaja S Alim, Hermineh Aramin, Minal V Patel, Elizabeth Lee

32. New Onset Cardiomyopathy: Biopsy or Magnetic Resonance Imaging and Other Imaging Modalities **353**
Khwaja S Alim, Matt M Kawahara

Index ***361***