## Contents

### Section 1: The Emergency Department

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

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

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

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

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

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

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

8. **When to Discharge the Heart Failure Patient?**  
   *Benjamin A Kipper*  
   Page 78
Section 2: Heart Failure in the Hospital

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

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

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

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

13. Heart Failure and Acute Coronary Syndrome
    Kevin S Shah

Section 3: Chronic Heart Failure Patients in the Outpatient Setting

14. Echocardiography: Getting It Right
    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
    Boris Arbit, Alan S Maisel

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

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

18. Management of the Patient with Heart Failure with Preserved Ejection Fraction
    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?
    Khwaja S Alim, Erik A Green
20. Clinical Decision-making in the Outpatient Setting: the Use of Galectin-3
Rogier van der Velde, Wouter C Meijers, Rudolf A de Boer 199

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

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

Section 4: Special Issues in Heart Failure

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

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

Section 5: Advanced Heart Failure

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

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

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

Section 6: Cardiomyopathies: Practical Recommendations to Diagnosis and Management

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

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

30. Myocarditis
Michel Noutsias 323
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