

## **Part I: Basic Determinants of Diastolic Function**

1. Molecular, Gene, and Cellular Mechanis
2. Pathophysiology of Heart Failure With a Preserved Ejection Fraction: Measurements and Mechanisms Causing Abnormal Diastolic Function
3. Role of the Pericardium in Diastolic Dysfunction
4. Left Atrial Function: Basic Physiology
5. Physical Determinants of Diastolic Flow
6. Ventricular–Arterial Interaction in Patients With Heart Failure and a Preserved Ejection Fraction

## **Part II: Diagnosis of Heart Failure With Preserved Ejection Fraction**

7. General Principles, Clinical Definition, Epidemiology, and Pathophysiology
8. Invasive Hemodynamic Assessment in Heart Failure With Preserved Ejection Fraction
9. Two-Dimensional and Doppler Evaluation of Left Ventricular Filling, Including Pulmonary Venous Flow Velocity
10. Evaluation of Diastolic Function by Tissue Doppler, Strain, and Torsion Analysis
11. Color M-mode Doppler
12. Assessment of Left Atrial Size and Function
13. Evaluation of Intracardiac Filling Pressures
14. Evaluation of Right Ventricular Diastolic Function
15. Evaluation of Diastolic Function by Cardiac Magnetic Resonance Imaging
16. Evaluation of Diastolic Function by Radionuclide Techniques
17. Diastolic Echocardiographic Examination
18. Diastology Stress Test
19. ASE/EACVI Diastolic Guidelines: Strength and Limitations

## **Part III: Cardiac Diseases With HFpEF**

20. Hypertension and Its Relation to Heart Failure With a Preserved Ejection Fraction
21. Valve Disease
22. Stage D Heart Failure With Preserved Ejection Fraction, Heart Transplantation, and Mechanical Circulatory Support
23. Primary Restrictive, Infiltrative, and Storage Cardiomyopathies
24. Coronary Artery Disease
25. Hypertrophic Cardiomyopathy
26. Pericardial Diseases: Constrictive Pericarditis and Pericardial Effusion
27. Diastolic Function in Children and in Children With Congenital Heart Disease
28. Diabetes Mellitus

## **Part IV: Emerging Topics in HFpEF**

29. Global and Regional Systolic Function of the Left Ventricle
30. Chronotropic Incompetence and Pacing in HPEF Heart Failure with Preserved Ejection Fraction
31. Aging and Heart Failure With Preserved Ejection Fraction

- 32. Perioperative Assessment of Diastolic Function
- 33. Pulmonary Hypertension in Heart Failure With Preserved Ejection Fraction

**Part V: Treatment of HFpEF**

- 34. General Treatment of Heart Failure With Preserved Ejection Fraction and Randomized Trials
- 35. Echo-Based Approach to the Management of Heart Failure With Preserved Ejection Fraction
- 36. Future Therapies in HFpEF

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- 37. Cases of Diastolic Heart Failure