

PRACTICAL CARDIOVASCULAR HEMODYNAMICS

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DESCRIPTION:

Practical Cardiovascular Hemodynamics provides an in-depth understanding of waveforms and tracings seen in various disease states as well as pathophysiology behind those findings. Practical issues that are rarely discussed or focused upon in textbooks are highlighted in this book with detailed waveform analysis. Caveats in the hemodynamic assessment of valvular diseases, constriction, tamponade, pulmonary hypertension, shunt pathology, and right and left ventricular failure are provided. Practical Cardiovascular Hemodynamics also provides case-based and tracing-based quizzes. The reader will learn to identify disease states and waveform subtleties from single tracings or from case studies. The reader will take the initiative to interpret tracings, understand notches, artifacts, and formulate a diagnosis.

Features:

- Complete presentation of basic and advanced hemodynamics
- Numerous case studies allow the reader to learn real-life application of hemodynamic data in clinical decision-making
- Quizzes and explanations provides the reader with self-assessment and problem solving skills
- Over 300 illustrations with detailed discussion

CONTENTS:**Section A. Basic and Advanced Hemodynamics**

1. Pressure Tracings
2. Measurement of Cardiac Output and Vascular Resistances
3. Evaluation of Right-to-Left and Left-to-Right Shunts and Calculation of Shunt Ratio
5. Overview of the Steps Performed During a Standard Right and Left Heart Catheterization
6. Left Ventricular Failure
7. Valvular Disorders: Calculation of Valvular Area
8. Valvular Disorders: Aortic Stenosis
9. Valvular Disorders: Mitral Stenosis
10. Mitral Regurgitation, Aortic Insufficiency, Tricuspid Regurgitation, Pulmonic Stenosis, and Prosthetic Valves
11. Assessment of Mixed Valvular Disorders
12. Hypertrophic Obstructive Cardiomyopathy,
13. Constrictive Pericarditis and Differentiation of Constrictive Pericarditis from Restrictive Cardiomyopathy, Ventricular Failure, and COPD
14. Tamponade
15. Pulmonary Hypertension
16. Hemodynamics in Shock
17. Hemodynamics of LV Support Devices and LV Pressure-Volume Loop in Various 20. Cardiac Conditions
18. References

Section B. Cases and Tracings Quizzes

1. Case Quizzes
2. Tracings Quizzes