

Section I. Techniques and Methods in Critical Care

1. Hemodynamics
2. Hemodynamic Monitoring
3. Support of the Failing Circulation
4. Arrhythmias, Pacing and Cardioversion
5. Respiratory Monitoring
6. Airway Intubation
7. Indications and Options for Mechanical Ventilation
8. Practical Problems and Complications of Mechanical Ventilation
9. Positive End-Expiratory and Continuous Positive Airway Pressure
10. Weaning and Discontinuation of Mechanical Ventilation
11. Intensive Care Unit Imaging
12. Acid-Base Disorders
13. Fluid and Electrolyte Disorders
14. Transfusion and Blood Component Therapy
15. Medication Administration
16. Nutritional Assessment and Support
17. Analgesia, Sedation, and Therapeutic Paralysis
18. General Supportive Care
19. ICU Utilization and Cost Control

Section II. Medical Crisis

20. Cardiopulmonary Arrest
21. Acute Coronary Syndromes
22. Hypertensive Emergencies
23. Venous Thrombosis and Pulmonary Embolism
24. Oxygenation Failure, ARDS, and Acute Lung Injury
25. Ventilatory Failure
26. Common ICU Infections
27. Severe Sepsis
28. Thermal Disorders
29. Acute Renal Failure and Dialysis
30. Clotting and Bleeding Disorders and anticoagulation Therapy
31. Hepatic Failure
32. Endocrine Emergencies
33. Drug Overdose and Poisoning

Section III. Surgical Crises

34. Coma, Stroke, seizures, and Brain Death
35. Head and Spine trauma
36. Thoracic Trauma
37. Acute Abdomen
38. Pancreatitis
39. Gastrointestinal Bleeding
40. Burns and Inhalational Injury