

I. General ICU Care

1. Glycemic Control in the ICU
2. Early Mobility
3. Sedation, Analgesia, Delirium
4. Pain Management in the ICU
5. Ethics and Palliative Care
6. Fluid Therapy
7. Nutrition in Critically Ill Patients
8. Mechanical Ventilation
9. Noninvasive Respiratory Support
10. Weaning from Mechanical Ventilation and Extubation
11. Quality Assurance and Patient Safety in the ICU

II. Monitoring

12. Pulse Oximetry, Capnography, and Blood Gas Analysis
13. Hemodynamic Monitoring
14. Neuromonitoring

III. Procedures

15. Cardiopulmonary resuscitation
16. Arterial and Central Venous Catheters
17. Critical Care Ultrasound
18. Ventricular Assist Device
19. Percutaneous Assist Devices
20. Intra-Aortic Balloon Pumps

21. Extracorporeal Membrane Oxygenation (ECMO)
22. Tracheal Intubation and Airway Management
23. Tracheotomy and Upper Airway Obstruction
24. Chest Tubes and Pneumothorax
25. Bronchoscopy
26. Pacemakers and Defibrillators

IV. Pulmonary

27. Acute Pneumonia
28. Asthma
29. Chronic Obstructive Pulmonary Disease
30. Acute Respiratory Failure/ARDS
31. Hemoptysis
32. Venous Thromboembolism and Fat Embolism

V. Cardiology

33. Heart Failure and Valvular Heart Disease
34. Acute Myocardial Infarction
35. Cardiac Arrhythmia
36. Aortic Dissection
37. Pericardial Disease (Pericardial Tamponade and Pericarditis)

VI. Infectious Disease

38. Sepsis and Septic Shock
39. Endocarditis
40. Meningitis and Encephalitis in the Intensive Care Unit

41. Disseminated Fungal Infections
42. Multidrug-Resistant Bacteria
43. Skin and Soft Tissue Infections
44. H1N1/Influenza
45. Immunocompromised Host

VII. Renal Disease

46. Hypertensive Crises
47. Acute Kidney Injury
48. Renal Replacement Therapy and Rhabdomyolysis
49. Hypokalemia and Hyperkalemia
50. Hyponatremia and Hypernatremia

VIII. Gastroenterology

51. Upper and Lower Gastrointestinal Bleeding in the Critically Ill Patient
52. Acute Pancreatitis
53. Hepatitis and Cirrhosis

IX. Endocrinology

54. Diabetic Ketoacidosis and Hyperosmolar Hyperglycemic State
55. Adrenal Insufficiency in the Intensive Care Unit
56. Thyroid Disease in the ICU

X. Hematology/Oncology

57. Blood Products and Coagulation
58. Thrombocytopenia and Platelets
59. Disseminated Intravascular Coagulation

XI. Neurology

- 60. Coma
- 61. Brain Death
- 62. Status Epilepticus
- 63. Stroke and Subarachnoid Hemorrhage
- 64. Guillain-Barré Syndrome and Myasthenia Gravis
- 65. Alcohol Withdrawal

XII. Surgery and Trauma

- 66. Burns and Frostbite
- 67. Thoracic Trauma (Flail Chest and Pulmonary & Myocardial Contusion)
- 68. Acute Abdomen and Peritonitis
- 69. Organ Donation

XIII. Emergency Medicine

- 70. Disaster Medicine, Bioterrorism and Ebola
- 71. Allergy and Anaphylaxis
- 72. Hypothermia
- 73. Heat Stroke

XIV. Toxicology

- 74. General Approach to Poisonings
- 75. Analgesics and Antidepressants
- 76. Toxic Alcohol Poisoning
- 77. Cardiovascular Medications
- 78. Neuroleptic Malignant Syndrome

XV. Unique Patient Populations

79. Care of the Critically Ill Pregnant Patient

80. Care of the Obese patient

81. Oncologic Emergencies

82. Post-Intensive Care Syndrome & Chronic Critical Illness

83. ICU Survivors

XVI. Emerging Therapies

84. Sepsis: Emerging Therapies