Contents

SECTION 1
Admission Protocol and Checklist

1. ICU Admission Policy 3
2. Checklist for Receiving New Patient in ICU 7
3. Investigations to be done on ICU Admission 10
4. Routine Investigations in ICU 11

SECTION 2
Daily Assessment in ICU and Infection Control

5. FAST HUGS BID 19
6. Drug Dilution for Infusions in ICU—Drug Name, Dose, and Concentration 21
7. Drop Rate Calculation of Fluids 24
8. Tips on Intravenous Fluids 25
9. Protocol for Bedside Infection Control Practices 27
10. Protocol for Endotracheal Suctioning 31
11. Protocols for Insertion and Handling of Central Venous Catheter 36
12. Protocol for Handling of Arterial Line 39
13. Protocol for Foley's Catheterization and Community-acquired Urinary Tract Infection Bundle 42

SECTION 3

Tracheostomy and Prevention of VAP

14. Tracheostomy in ICU 47
15. Protocol for Care of Patient with Tracheostomy Tube 51
16. Protocol for Change of Tracheostomy 52
17. Strategies in ICU to Prevent VAP 55

SECTION 4

Cardiorespiratory Arrest in ICU

18. Adult Tachycardia Algorithm Based on American Heart Association 2020 59
19. Adult Bradycardia Algorithm Based on American Heart Association 2020 60
20. Adult Cardiac Arrest Algorithm Based on the Guidelines by American Heart Association 2020 61
21. Defibrillation Usage in ICU 62

SECTION 5

Acid–Base Imbalance and Dyselectrolytemia

22. Sampling of Arterial Blood Gas 69
23. Steps of Arterial Blood Gases Interpretation 73
24. Protocol for Potassium Correction in Hypokalemia 79
25. Protocol for Treatment of Hyperkalemia 81

26. Hyponatremia Algorithm 83
27. Protocol for Sodium Correction in Hyponatremia.....86
28. Protocol to Calculate Rate of Infusion for 3% NaCl 87
29. Protocol for Hypernatremia 89

SECTION 6
General Protocols

30. Protocol for Nutrition in ICU 93
31. Protocol of Neuromonitoring in ICU.....96
32. Protocol of Glucose Control in ICU..... 101
33. Protocol for Bedsore Prevention and Care..... 106
34. Protocol for Antibiotic Usage in ICU..... 110
35. Protocol for Organ Donor Management 120

SECTION 7
Key Points in Ventilating Common ICU Admissions

36. Key Points in Ventilating Respiratory Failure..... 131
37. Key Points in Ventilating Postoperative (Normal Lung) Patient..... 136
38. Key Points in Ventilating Neuromuscular Diseases 139
39. Key Points in Ventilating Head/Brain Injury..... 146
40. Key Points in Ventilating Severe Asthma..... 151
41. Key Points in Ventilating Chronic Obstructive Pulmonary Disease 155

42. Key Points in Ventilating Acute Respiratory Distress Syndrome 162
43. Key Points in Care of Patients on Long-term Mechanical Ventilator 169
44. Ventilator Troubleshooting 171
45. Weaning Criteria 175

SECTION 8
Blood Transfusion

46. Protocol for Blood Transfusion in ICU 181
47. Protocol for Massive Blood Transfusion 187

SECTION 9
Scoring System in ICU

48. SOFA Score 191
49. Child Pugh Score for Liver Disease 193
50. Clinical Pulmonary Infection Score for Ventilator Associated Pneumonia 194
51. Wells Score for Predicting Risk of Pulmonary Embolism (PE) 195
52. Pulmonary Embolism Severity Index (PESI) Score 196
53. Acute Physiological and Chronic Health Evaluation (APACHE)-II Score 197
54. Score for Atrial Fibrillation Stroke Risk, CHA_2DS_2VASc 199

SECTION 10

Bedside Hemodialysis in ICU

55. Protocol for Dialysis 203

SECTION 11

Documentation and Checklists

56. Protocol for Intubation Trolley 209

57. Protocol for Making Sterile Sets 211

58. Transfer Out/Death Report 212

59. Protocol to Write Death Report 214

SECTION 12

Waste Management and Decontamination

60. Anesthetic Assistant or Technician: Decontamination of Environment and Equipments in ICU 217

61. Nursing Staff: Decontamination of Environment and Equipments in ICU 219

62. Housekeeping Personnel: Decontamination of Environment and Equipments in ICU 220

63. ICU Attendant: Decontamination of Environment and Equipments in ICU 224

64. Waste Disposal 225

Glossary 227