



# Manual of Critical Care Nursing

*Nursing Interventions  
and Collaborative Management*

*7<sup>th</sup> Edition*



Marianne Saunorus Baird



10045666

ห้องสมุด วพบ. สุรินทร์

ELSEVIER



# Contents

- 1. General Concepts in Caring for the Critically Ill, 1**
  - Acid-Base Imbalances, 1
  - Altered Mental Status, 25
  - Fluid and Electrolyte Disturbances, 40
  - Hemodynamic Monitoring, 79
  - Mechanical Ventilation, 104
  - Nutrition Support, 123
  - Pain, 150
  - Prolonged Immobility, 162
  - Sedation and Neuromuscular Blockade, 173
  - Wound and Skin Care, 183
- 2. Managing the Critical Care Environment, 199**
  - Bioterrorism, 199
  - Emerging Infections, 209
  - Emotional and Spiritual Support of the Patient and Significant Others, 226
  - Ethical Considerations in Critical Care, 242
  - Patient Safety, 247
- 3. Trauma, 260**
  - Major Trauma, 260
  - Abdominal Trauma, 271
  - Acute Cardiac Tamponade, 284
  - Acute Spinal Cord Injury, 291
  - Burns, 310
  - Compartment Syndrome/Ischemic Myositis, 334
  - Drowning, 341
  - Pelvic Fractures, 347
  - Renal and Lower Urinary Tract Trauma, 352
  - Thoracic Trauma, 361
  - Traumatic Brain Injury, 368
- 4. Respiratory Disorders, 390**
  - Respiratory Assessment: General, 390
  - Acute Asthma Exacerbation, 393
  - Acute Respiratory Distress Syndrome, 404
  - Acute Pneumonia, 414
  - Acute Respiratory Failure, 423
  - Pneumothorax, 429
  - Pulmonary Embolism, 437
  - Pulmonary Hypertension, 450
- 5. Cardiac and Vascular Disorders, 462**
  - Cardiovascular Assessment: General, 462
  - Heart Failure, 466
  - Acute Coronary Syndrome, 479
  - Acute Infective Endocarditis, 498
  - Acute Pericarditis, 507
  - Aortic Aneurysm/Dissection, 512
  - Cardiogenic Shock, 518
  - Cardiomyopathy, 526
  - Dysrhythmias and Conduction Disturbances, 537
  - Hypertensive Emergencies, 576
  - Peripheral Vascular Disease, 589
  - Valvular Heart Disease, 612
- 6. Kidney Injury, 636**
  - Genitourinary Assessment: General, 636
  - Acute Kidney Injury, 637
  - Continuous Renal Replacement Therapies, 656
- 7. Neurologic Disorders, 673**
  - General Neurologic Assessment, 673
  - Brain Death, 677
  - Cerebral Aneurysm and Subarachnoid Hemorrhage, 684
  - Care of the Patient After Intracranial Surgery, 694
  - Meningitis, 701
  - Neurodegenerative and Neuromuscular Disorders, 711
  - Status Epilepticus, 727
  - Stroke: Acute Ischemic and Hemorrhagic, 734
- 8. Endocrinologic Disorders, 756**
  - Endocrine Assessment, 756
  - Acute Adrenal Insufficiency (Adrenal Crisis), 757
  - Diabetes Insipidus, 765
  - Hyperglycemia, 773
  - Myxedema Coma, 787
  - Syndrome of Inappropriate Antidiuretic Hormone, 795
  - Thyrotoxicosis Crisis (Thyroid Storm), 803

**9. Gastrointestinal Disorders, 814**

- Gastrointestinal Assessment: General, 814
- Acute Gastrointestinal Bleeding, 816
- Acute Pancreatitis, 828
- Enterocutaneous Fistula, 845
- Hepatic Failure, 854
- Peritonitis, 879

**10. Hematologic/Immunologic Disorders, 891**

- General Hematology Assessment, 891
- Anaphylactic Shock, 892
- Profound Anemia and Hemolytic Crisis, 902
- Bleeding and Thrombotic Disorders, 913

**11. Complex Special Situations, 937**

- Abdominal Hypertension and Abdominal Compartment Syndrome, 937

Drug Overdose, 945

Stimulants, 959

High-Risk Obstetrics: Hypertension in Pregnancy, 964

Oncologic Emergencies, 975

Organ Transplantation, 989

Sepsis, *Septic Shock, Systemic Inflammatory Response Syndrome, and Multiple Organ Dysfunction Syndrome*, 1008

**Appendixes**

1. Heart and Breath Sounds, 1029
2. Glasgow Coma Scale, 1034
3. Cranial Nerves: Assessment and Dysfunctions, 1035
4. Major Deep Tendon (Muscle-Stretch) Reflexes, 1037
5. Major Superficial (Cutaneous) Reflexes, 1038
6. Inotropic and Vasoactive Medication Infusions, 1039
7. Sample Relaxation Technique, 1041
8. Abbreviations Used in this Manual, 1042