

# Emergency Nursing

**CORE CURRICULUM**

**SEVENTH EDITION**



B0052256

ห้องสมุดวทบ.นครราชสีมา

ELSEVIER

**E N A**  
EMERGENCY NURSES ASSOCIATION

## PART 1

### Clinical Foundations

#### 1 Nursing Assessment and Resuscitation, 1

**Nancy J. Denke, DNP, ACNP-BC, FNP-BC, CEN, CCRN, FAEN**

Major Topics, 1

Primary Assessment, 1

*Overview of Major Components, 1*

*Individual Components of Primary Assessment, 2*

Resuscitation, 7

*Airway/Cervical Spine Protection, 7*

*Breathing, 8*

*Circulation/Bleeding, 10*

*Disability (Neurologic Status), 11*

*Exposure/Environmental Controls, 11*

Secondary Assessment, 11

*Full Set of Vital Signs/Facilitate Family Presence, 12*

*Get Resuscitation Adjuncts (LMNOP mnemonic), 12*

*History and Head-to-Toe Assessment, 12*

*Inspect Posterior Surfaces, 19*

Focused Assessment, 19

Diagnostic Procedures, 19

Analysis: Differential Nursing Diagnoses/

*Collaborative Problems, 19*

Planning and Implementation/Interventions, 19

Evaluation and Ongoing Monitoring, 20

Documentation of Nursing Assessments and Resuscitation, 20

*Subjective Data Collection, 20*

*Objective Data Collection, 20*

*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 20*

*Planning and Implementation/Interventions, 20*

*Evaluations and Ongoing Monitoring, 20*

Age-Related Considerations, 20

*Pediatric, 20*

*Geriatric, 21*

*Bariatric Patient, 22*

#### 2 Triage, 23

**Debbie Travers, PhD, RN, FAEN, CEN**

Major Topics, 23

Triage Overview, 23

*Objectives, 23*

*Nursing Qualifications, 23*

*Assessment, 24*

*Acuity Rating Systems, 24*

*Location of Care Assignment, 24*

*Treatment and Diagnostic Testing, 25*

*Decision-Making Process, 26*

*Interfacility Transfers, 26*

Additional Triage Responsibilities, 26

*Waiting Room Management, 26*

*Communication Issues, 26*

Administrative Responsibilities, 27

*Safety, 27*

*Infection Control, 27*

*Triage Legalities, 28*

*Triage Performance Improvement, 28*

*Triage Data Utilization, 28*

Selected Considerations, 29

*Populations, 29*

*Illness/Injury, 30*

#### 3 Abuse and Neglect, 36

**Mary Hugo Nielson, DNP, APRN, ANP-BC, ANP**

Major Topics, 36

General Strategy, 36

*Assessment, 36*

*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 37*

*Planning and Implementation/Interventions, 37*

*Evaluation and Ongoing Monitoring, 37*

*Documentation of Interventions and Patient Response, 38*

*Age-Related Considerations, 38*

Specific Abuse/Assault Emergencies, 38

*Child Maltreatment, 38*

*Elder Abuse/Neglect, 40*

*Intimate Partner Violence (Domestic Violence), 42*

*Sexual Assault, 43*

#### 4 Complementary/Alternative Therapies, 47

**Vicki Sweet, MSN, RN, MICN, CEN, FAEN**

Major Topics, 47

Introduction, 47

Types of Complementary/Alternative Therapies, 47

*Acupuncture, 47*

*Aromatherapy, 47*

*Herbology/Nutritional Supplements, 47*

*Homeopathy, 48*

*Hypnotherapy/Guided Imagery, 48*

*Naturopathy, 48*

General Strategy, 48

*Assessment, 48*

*Planning and Implementation/Interventions, 48*

*Evaluation and Ongoing Monitoring, 51*

*Documentation of Interventions and Patient Response, 51*

#### 5 Palliative and End-of-Life Care, 52

**Garrett K. Chan, PhD, APRN, FAEN, FPCN, FNAP, FAAN**

Major Topics, 52

Overview, 52

Palliative Care Symptom Management, 53

*Advanced Preparation before Deciding on a Plan of Care, 53*

*Common Symptoms, 54*

Possible Triggers for Obtaining a Palliative Care

Consult, 62

- Family Presence During Resuscitation, 63
  - Benefits of Family Presence, 63*
  - Potential Risks of Family Presence, 63*
  - Core Elements of Family Presence Programs, 63*
- Death Notification, 63
  - Bereavement Care, 63*
- End-of-Life Legalities/Ethics, 64
  - Advance Directives, 64*
  - Organ and Tissue Donation, 65*
  - Postmortem Procedures, 65*
  - Autopsy, 66*
  - Withholding/Withdrawing Life-Sustaining Measures, 66*
  - Principle of Double Effect, 66*
  - Particularly Significant Deaths, 66*
  - Burnout and Posttraumatic Stress, 67*
- 6 Invasive Hemodynamic Monitoring, 70**
  - Jennifer Denno, MSN, RN, CEN**
  - Major Topics, 70
  - Invasive Hemodynamic Monitoring Basics, 70
    - Concepts, 70*
    - Types of Monitoring Systems, 71*
    - Pressure Monitoring System Components, 71*
    - Obtain Accurate Data, 72*
    - Setting Up Pressure Monitoring System with Transducer, 72*
    - Leveling the Transducer and Zeroing the Monitor, 75*
    - Complications, 75*
  - Specific Pressure Monitoring Systems, 75
    - Central Venous Pressure Monitoring, 75*
    - Arterial Pressure Monitoring, 77*
    - SCVO<sub>2</sub>, SVO<sub>2</sub> Monitoring, 77*
    - Passive Leg Raise Monitoring, 78*
    - Intracranial Pressure Monitoring, 78*
- 7 Organ and Tissue Donation, 80**
  - Arnitha Lim, BSN, MBA, RN, CNOR, CTBS**
  - Karen Cameron, RN, BSN, CPTC, CTBS**
  - Rebecca Reilly, BS, CTBS**
  - Major Topics, 80
  - Overview, 80
  - Legislation and Regulation, 81
    - Uniform Anatomical Gift Act (UAGA), 81*
    - Uniform Determination of Death Act (UDDA), 82*
    - Omnibus Reconciliation Act of 1986, 82*
    - National Organ Transplant Act (NOTA), 82*
    - Health Care Financing Administration (HCFA), 82*
    - Role of the Local OPO, 83*
  - Donation Opportunities, 83
    - Living Donation, 83*
    - Deceased Donation, 83*
    - Impact of Donation on Medical Research, 84*
  - Safety in Donation, 84
    - Infectious Disease Testing, 84*
    - Tissues, 84*
    - Donor/Recipient Matching, 84*
  - Donation Referrals, 85
    - Donation Referral Criteria, 85*
  - OPO Donor Evaluation, 86
    - Organ/Tissue, 86*
    - Eye, 86*
- Determination of Brain Death, 86
  - Guidelines, 86*
- Donor Family Authorization, 87
  - Core Elements for Authorization, 87*
  - Authorizing Person, 87*
- Interacting with and Supporting Donor's Family, 88
  - Assess, 88*
  - Additional Analysis, 88*
  - Next of Kin, 88*
- Maintaining Viability of Potential Organ Donors, 88
  - Maintain Adequate Intravascular Volume, 88*
  - Maintain Normal Blood Pressure (BP) and Normothermia, 88*
  - Establish Diuresis, 88*
  - Optimize Oxygenation and Acid-Base Balance, 88*
- Maintaining Viability of Potential Tissue/Ocular Donor, 88
  - Cooling of the Body, 88*
  - Documentation, 88*
  - Coordination, 88*
  - Ocular Tissue Donation, 88*
- Pre- and Posttransplantation Emergencies, 88
  - Rejection and Infection, 88*
- 8 Pain Management, 90**
  - Stephen J. Stapleton, PhD, MS, RN, CEN, FAEN**
  - Major Topics, 90
  - Pain Overview, 90
  - Definitions, 90
    - Pain, 90*
    - Addiction, 91*
    - Allodynia, 91*
    - Co-Analgesics, 91*
    - Dependence, 91*
    - Pain Management, 91*
    - Pain Threshold, 91*
    - Tolerance, 91*
    - Suffering, 91*
    - Oligoanalgesia, 91*
  - Pain Physiology, 91
    - Neuroanatomy, 91*
    - Effect of Medications on Modulating Pain, 92*
    - Pain Theories, 92*
    - Types of Pain, 93*
  - General Strategy, 94
    - Assessment, 94*
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 97*
    - Planning and Implementation/Interventions, 97*
    - Evaluation and Ongoing Monitoring, 101*
    - Documentation of Interventions and Patient Response, 101*
    - Age-Related Considerations, 101*
  - Pain Management Practice, 106
    - Barriers to Effective Pain Management, 106*
    - Acute Pain Management Myths, 106*
    - Enablers to Effective Pain Management, 106*
    - Improving Pain Management Practice, 106*

- Procedural Sedation, 106  
*Indications for Procedural Sedation: Diagnostic and Therapeutic Procedures*, 107  
 Assessment, 107  
 Procedure, 107  
*Postprocedure Discharge Criteria*, 107  
*Institutional Responsibilities*, 107
- 9 Isolation and Personal Protective Equipment, 109**  
**Anna M. Valdez, PhD, RN, CEN, CFRN, CNE, FAEN**  
 Major Topics, 109  
 General Strategy, 109  
*Detection of Infectious Illness and Related Signs and Symptoms*, 109  
*Hand Hygiene*, 109  
*Use of Personal Protective Equipment*, 111  
*Isolate Patient if Indicated*, 111  
*Notification, Documentation, and Communication*, 111  
 Personal Protective Equipment, 111  
*Gloves*, 111  
*Protective Covers/Gowns/Coveralls*, 112  
*Surgical and Procedure Masks*, 112  
*Face and Eye Protection*, 113  
*Respiratory Protection*, 113  
*Donning Personal Protective Equipment*, 114  
*Safe Use of PPE During Patient Care*, 114  
*Doffing Personal Protective Equipment*, 115  
 Precautions to Prevent Transmission of Infectious Agents, 115  
*Standard Precautions*, 115  
*Transmission-Based Precautions and Isolation*, 116  
*Protective Precautions*, 117  
 Organizational Infection Control  
 Recommendations, 117  
*Administrative Measures*, 117
- 10 Children with Special Health Needs (CSHN), 121**  
**Barbara Weintraub, ARNP, MSN, MPH, CEN, CPEN, FAEN**  
 Major Topics, 121  
 Legislation, 121  
*Individuals with Disabilities Education Improvement Act of 2004*, 121  
*Americans with Disabilities Act of 1990*, 121  
*Rehabilitation Act of 1973, Section 504*, 121  
*Patient Protection and Affordable Care Act (PPACA) of 2010*, 121  
*Title V Maternal and Child Health Services Block Grant Program*, 122  
 Demographics, 122  
*Definition*, 122  
*Prevalence*, 122  
 General Strategy, 122  
*Health History Considerations in CSHN*, 122  
*Primary Assessment Considerations in CSHN*, 122  
*Secondary/Focused Assessment Considerations in CSHN*, 123  
*Differences in Head to Toe Assessment*, 123  
*Age-Related Considerations*, 123  
 Specific Special Health Care Needs, 123  
*Autism Spectrum Disorders (ASD)*, 123  
*Congenital Heart Disease*, 124  
*Spina Bifida*, 124  
 Special Considerations, 125  
*Emergency Information Form*, 125  
*Disaster Planning*, 125

## PART 2 Clinical Emergencies

- 11 Abdominal Emergencies, 126**  
**Margaret A. Flanagan, MSN, FNP-BC, RN**  
 Major Topics, 126  
 General Strategy, 126  
*Assessment*, 126  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 127  
*Planning and Implementation/Interventions*, 127  
*Evaluation and Ongoing Monitoring*, 128  
*Documentation of Interventions and Patient Response*, 128  
*Age-Related Considerations*, 128  
 Specific Abdominal Emergencies, 128  
*Appendicitis*, 128  
*Bowel Obstruction*, 129  
*Cholecystitis*, 130  
*Diverticulitis*, 131  
*Esophageal Varices*, 132  
*Esophagitis*, 133  
*Gastritis*, 133  
*Gastroenteritis/Infectious Diarrhea*, 134  
*Gastroesophageal Reflux Disease*, 135  
*Intussusception*, 136  
*Irritable Bowel Syndrome*, 137  
*Pancreatitis*, 137  
*Pyloric Stenosis*, 139  
*Ulcers*, 140
- 12 Cardiovascular Emergencies, 142**  
**Joanne E. Navarroli, MSN, RN CEN**  
 Major Topics, 142  
 General Strategy, 142  
*Assessment*, 142  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 144  
*Planning and Implementation/Interventions*, 145  
*Evaluation and Ongoing Monitoring*, 145  
*Documentation of Interventions and Patient Response*, 145  
*Age-Related Considerations*, 145  
 Specific Medical Cardiovascular Emergencies, 146  
*Acute Aortic Aneurysm—Nontraumatic*, 146  
*Acute Aortic Dissection*, 147  
*Acute Arterial Occlusion*, 149  
*Acute Coronary Syndromes*, 150  
*Angina, Stable and Unstable*, 154  
*Cardiac Dysrhythmias*, 156  
*Atrial Dysrhythmias*, 157  
*Junctional Dysrhythmias*, 161  
*Sinus Dysrhythmias*, 163  
*Ventricular Dysrhythmias*, 163  
*Cardiac Arrest and Postresuscitation Care*, 167

- Cardiac Implantable Electronic Device
    - Malfunction, 168
  - Cardiogenic Shock, 168
  - Cardiomyopathy, 168
  - Heart Failure and Cardiogenic Pulmonary Edema, 169
  - Hypertensive Crises, 172
  - Infective Endocarditis, 173
  - Myocarditis, 175
  - Pericarditis, 176
  - Peripheral Vascular Disease, 177
  - Right Ventricular Infarction, 179
  - Venous Thromboembolism, 179
- 13 Dental, Ear, Nose, and Throat Emergencies, 183**  
**Jeff Solheim, MSN, RN, CEN, CFRN, FAEN**
- Major Topics, 183
  - General Strategy, 183
    - Assessment, 183
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 185
    - Planning and Implementation/Interventions, 185
    - Evaluation and Ongoing Monitoring, 185
    - Documentation of Interventions and Patient Response, 185
    - Age-Related Considerations, 185
  - Specific Dental Emergencies, 186
    - Acute Necrotizing Ulcerative Gingivitis (Trench Mouth), 186
    - Dental Abscess, 186
    - Ludwig Angina, 187
    - Odontalgia, 188
    - Pericoronitis, 189
    - Postextraction Pain and Bleeding, 190
    - Tooth Eruption, 190
  - Specific Ear Emergencies, 191
    - Acute Otitis Externa, 191
    - Acute Otitis Media, 192
    - Labyrinthitis, 193
    - Meniere Disease, 194
    - Otic Foreign Body, 195
    - Ruptured Tympanic Membrane, 196
  - Specific Nose Emergencies, 196
    - Epistaxis, 196
    - Nasal Foreign Body, 198
    - Rhinitis, 198
  - Specific Throat Emergencies, 199
    - Epiglottitis, 199
    - Exudative Pharyngitis, 200
    - Laryngeal Foreign Body, 201
    - Laryngitis, 202
    - Peritonsillar Abscess, 203
    - Pharyngitis, 204
    - Retropharyngeal Abscess, 204
- 14 Endocrine Emergencies, 207**  
**Walter A. Perez, MSN, CEN, CCRN,**
- Major Topics, 207
  - General Strategy, 207
    - Assessment, 207
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 208
    - Planning and Implementation/Interventions, 208
    - Evaluation and Ongoing Monitoring, 208
    - Documentation of Interventions and Patient Response, 208
    - Age-Related Considerations, 208
  - Specific Endocrine Emergencies, 209
    - Adrenal Crisis, 209
    - Diabetic Ketoacidosis, 211
    - Hyperglycemic Hyperosmolar Syndrome, 212
    - Hypoglycemia, 214
    - Myxedema Crisis, 215
    - Thyroid Storm, 216
- 15 Environmental Emergencies, 219**  
**Kathleen Flarity, DNP, PhD, CEN, CFRN, FAEN**
- Major Topics, 219
  - General Strategy, 219
    - Assessment, 219
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 221
    - Planning and Implementation/Interventions, 221
    - Evaluation and Ongoing Monitoring, 221
    - Documentation of Interventions and Patient Response, 221
    - Age-Related Considerations, 221
  - Specific Environmental Emergencies, 222
    - Aquatic Organism Injuries, 222
    - Bites and Stings, 224
      - Human Bites, 224
      - Domestic/Wild Animals, 224
      - Snakes, 226
      - Insects, 227
      - Ticks, 229
      - Spiders, 231
    - Cold-Related Emergencies, 232
      - Frostbite, 232
      - Hypothermia, 234
    - Diving Emergencies (Dysbarism), 236
      - Barotrauma, 236
      - Decompression Sickness, 236
      - Arterial Gas Embolism, 236
    - Heat-Related Emergencies, 238
      - Heat Cramps, 238
      - Heat Exhaustion, 239
      - Heat Injury and Heat Stroke, 239
      - Exertional Heatstroke, 240
    - High-Altitude Illness, 241
      - Acute Mountain Sickness, 241
      - High-Altitude Cerebral Edema, 241
      - High-Altitude Pulmonary Edema, 241
    - Water-Related Emergencies, 242
      - Drowning, 242
      - Submersion Injuries, 242
- 16 Facial and Ocular Emergencies, 246**  
**LaToria S. Woods, MSN, RN, APN, CCNS**
- Major Topics, 246
  - General Strategy, 246
    - Assessment, 246
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 249
    - Planning and Implementation/Interventions, 249

- Evaluation and Ongoing Monitoring*, 249
- Documentation of Interventions and Patient Response*, 249
- Age-Related Considerations*, 249
- Specific Facial Emergencies, 250
- Bell Palsy (Idiopathic Facial Paralysis)*, 250
- Herpes Zoster Oticus (Ramsay Hunt Syndrome)*, 250
- Parotitis*, 251
- Sinusitis*, 252
- Trigeminal Neuralgia (Tic Douloureux)*, 253
- Specific Medical Ocular Emergencies, 254
- Acute Angle-Closure Glaucoma*, 254
- Anterior Uveitis/Iritis*, 255
- Central Retinal Artery Occlusion*, 256
- Conjunctivitis*, 256
- Periorbital/Orbital Cellulitis*, 257
- 17 Fluid and Electrolyte Abnormalities**, 259
- Betty L. Kuiper, PhDc, MSN, APRN, ACNS-BC, CEN**
- Major Topics, 259
- General Strategy, 259
- Assessment*, 259
- Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 260
- Planning and Implementation/Interventions*, 261
- Evaluation and Ongoing Monitoring*, 261
- Documentation of Interventions and Patient Response*, 261
- Age-Related Considerations*, 261
- Specific Fluid Emergencies, 261
- Dehydration*, 261
- Specific Electrolyte Emergencies, 263
- Calcium*, 263
- Hypocalcemia*, 263
- Hypercalcemia*, 264
- Magnesium*, 265
- Hypomagnesemia*, 265
- Hypermagnesemia*, 267
- Phosphorus*, 267
- Hypophosphatemia*, 268
- Hyperphosphatemia*, 268
- Hypophosphatemia Treatment*, 269
- Hyperphosphatemia Treatment*, 269
- Potassium*, 269
- Hypokalemia*, 270
- Hyperkalemia*, 271
- Sodium*, 271
- Hyponatremia*, 272
- Hypernatremia*, 273
- Parenteral Administration, 274
- 18 Genitourinary Emergencies**, 277
- Kathleen Sanders Jordan, DNP, MS, RN, FNP-BC, ENP-BC, SANE-P**
- Major Topics, 277
- General Strategy, 277
- Assessment*, 277
- Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 278
- Planning and Implementation/Interventions*, 278
- Evaluation and Ongoing Monitoring*, 279
- Documentation of Interventions and Patient Response*, 279
- Age-Related Considerations*, 279
- Specific Genitourinary Emergencies, 279
- Acute Kidney Injury (Acute Renal Failure)*, 279
- Epididymitis*, 281
- Foreign Bodies*, 282
- Priapism*, 283
- Prostatitis*, 284
- Pyelonephritis*, 284
- Testicular Torsion*, 285
- Urinary Calculi*, 286
- Urinary Tract Infection*, 287
- 19 Hematologic/Oncologic Emergencies**, 290
- Nancy Zeller Smith, MS, RN, OCN**
- Kristine Kenney Powell, MSN, RN, CEN, NEA-BC, FAEN**
- Major Topics, 290
- General Strategy, 290
- Assessment*, 290
- Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 291
- Planning and Implementation/Interventions*, 291
- Evaluation and Ongoing Monitoring*, 292
- Documentation of Interventions and Patient Response*, 292
- Age-Related Considerations*, 292
- Specific Hematologic/Oncologic Emergencies, 293
- Disseminated Intravascular Coagulation*, 293
- Hemophilia*, 294
- Immune Compromise*, 296
- Increased Intracranial Pressure*, 297
- Neoplastic Cardiac Tamponade*, 297
- Sickle Cell Crisis*, 299
- Spinal Cord Compression*, 300
- Superior Vena Cava Syndrome*, 301
- Thrombocytopenia Purpura*, 302
- Tumor Lysis Syndrome*, 303
- Hematologic/Oncologic Complications, 305
- Sepsis*, 305
- Syndrome of Inappropriate Antidiuretic Hormone*, 305
- Hypersensitivity Reactions*, 305
- 20 Communicable and Infectious Disease Emergencies**, 306
- Sharon Vanairsdale, MS, APRN, ACNS-BC, NP-C, CEN**
- Major Topics, 306
- General Strategy, 306
- Assessment*, 306
- Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 308
- Planning and Implementation/Interventions*, 308
- Evaluation and Ongoing Monitoring*, 308
- Documentation of Interventions and Patient Response*, 308
- Age-Related Considerations*, 308
- Specific Communicable and Infectious Disease Emergencies, 309
- Diphtheria*, 309
- Global/Pandemic Illnesses*, 310
- Severe Acute Respiratory Syndrome*, 311

- Middle Eastern Respiratory Syndrome*, 311
  - Avian Influenza*, 312
  - Hemorrhagic Fevers*, 313
  - Hepatitis*, 314
  - Herpes: Disseminated*, 316
  - Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome*, 317
  - Measles*, 319
  - Meningitis*, 320
  - Mononucleosis*, 323
  - Mumps*, 324
  - Pertussis*, 325
  - Shingles (Herpes Zoster)*, 326
  - Skin Infestations*, 327
    - Lice*, 327
    - Scabies*, 328
  - Tuberculosis*, 329
  - Varicella (Chickenpox)*, 331
  - Viral Encephalitis*, 332
- 21 Medical Emergencies, 334**
  - Teri Arruda, DNP, FNP-BC, CEN**
  - Major Topics, 334
  - General Strategy, 334
    - Assessment*, 334
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 335
    - Planning and Implementation/Interventions*, 335
    - Evaluation and Ongoing Monitoring*, 335
    - Documentation of Interventions and Patient Response*, 335
    - Age-Related Considerations*, 335
  - Specific Medical Emergencies, 336
    - Allergic Reaction/Anaphylaxis*, 336
    - Chronic Fatigue Syndrome*, 338
    - Fever*, 339
    - Fibromyalgia*, 341
    - Gout/Pseudogout*, 342
    - Reye Syndrome*, 344
    - Rheumatoid Arthritis*, 346
    - Systemic Lupus Erythematosus*, 347
- 22 Neurologic Emergencies, 349**
  - Cynthia A. Baxter, RN, DNP, ACNS-BC, NEA-BC, VHA-CM**
  - Major Topics, 349
  - General Strategy, 349
    - Assessment*, 349
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 352
    - Planning and Implementation/ Interventions*, 352
    - Evaluation and Ongoing Monitoring*, 352
    - Documentation of Interventions and Patient Response*, 352
    - Age-Related Considerations*, 352
  - Specific Neurologic Emergencies, 353
    - Dementia*, 353
    - Guillain-Barré Syndrome*, 354
    - Headaches*, 356
    - Seizures*, 359
    - Stroke*, 361
    - Ventricular Shunt*, 364
- 23 Obstetric and Gynecologic Emergencies, 366**
  - Kathleen Sanders Jordan, DNP, MS, RN, FNP-BC, ENP-BC, SANE-P**
  - Major Topics, 366
  - General Strategy, 366
    - Assessment*, 366
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 368
    - Planning and Implementation/Interventions*, 368
    - Evaluation and Ongoing Monitoring*, 368
    - Documentation of Interventions and Patient Response*, 368
    - Age-Related Considerations*, 368
  - Specific Obstetric Emergencies, 368
    - Ectopic Pregnancy*, 368
    - Emergency Delivery*, 369
    - Gestational Hypertension: Preeclampsia, Eclampsia, and Hemolysis, Elevated Liver Enzymes, Low Platelets (HELLP)*, 371
    - Hyperemesis Gravidarum*, 372
    - Neonatal Resuscitation*, 373
    - Placenta Previa and Abruptio Placentae*, 374
    - Postpartum Hemorrhage*, 376
    - Spontaneous Abortion*, 376
  - Specific Gynecologic Emergencies, 378
    - Pelvic Inflammatory Disease*, 378
    - Pelvic Pain*, 379
    - Sexually Transmitted Infections*, 380
    - Vaginal Bleeding/Dysfunctional Uterine Bleeding*, 380
    - Vaginitis*, 385
- 24 Orthopedic Emergencies, 387**
  - Mary Jo Cerepani, DNP, FNP-BC, CEN**
  - Major Topics, 387
  - General Strategy, 387
    - Assessment*, 387
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 390
    - Planning and Implementation/Interventions*, 390
    - Evaluation and Ongoing Monitoring*, 390
    - Documentation of Interventions and Patient Response*, 390
    - Age-Related Considerations*, 390
  - Specific Soft Tissue Emergencies, 391
    - Low Back Pain*, 391
    - Overuse/Cumulative Trauma Disorders*, 392
      - Bursitis*, 392
      - Nerve Entrapment Syndrome*, 393
      - Tendinitis*, 394
  - Specific Bony Skeleton Emergencies, 394
    - Costochondritis*, 394
    - Joint Effusions*, 395
    - Osteoarthritis*, 396
    - Osteoporosis*, 396
- 25 Pre- and Post-Transplant Emergencies, 398**
  - Christine Trotter, CCRN, ACNP**
  - Major Topics, 398
  - General Strategy, 398
    - Assessment*, 398
    - Analysis: Differential Nursing Diagnoses/ Collaborative Problem*, 398
    - Planning and Implementation/Interventions*, 398

- Pre-Solid Organ Transplant Emergencies, 398  
*Notification of Patient's Arrival*, 398  
*Special Considerations*, 399
- Post-Solid Organ Transplant Emergencies, 399  
*General Strategy*, 399  
*Solid Organ Transplant Rejection and Infection*, 401  
*Special Considerations*, 402
- 26 Toxicologic Emergencies, 404**  
**Michael De Laby, MSN, RN, CCRN, CFRN, NRP**  
 Major Topics, 404  
 General Strategy, 404  
*Assessment*, 404  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 408  
*Planning and Implementation/Interventions*, 408  
*Evaluation and Ongoing Monitoring*, 408  
*Documentation of Interventions and Patient Response*, 408  
*Age-Related Considerations*, 408
- Specific Toxicologic Emergencies, 409  
*Acetaminophen Poisoning*, 409  
*Alcohol Use*, 410  
*Amphetamine Use*, 411  
*Beta-Blocker Toxicity*, 413  
*Calcium Channel Blocker Toxicity*, 414  
*Carbon Monoxide Poisoning*, 415  
*Cocaine Use*, 416  
*Cyanide Poisoning*, 417  
*Digoxin Toxicity*, 418  
*Ethylene Glycol and Methanol Poisoning*, 419  
*Gamma-Hydroxybutyrate Use*, 420  
*Heavy Metal Poisoning*, 420  
*Inhalant Use*, 422  
*Iron Poisoning*, 422  
*Lysergic Acid Diethylamide Use*, 424  
*Marijuana*, 425  
*Opiate Use*, 425  
*Organophosphate Poisoning*, 427  
*Petroleum Distillate Poisoning*, 428  
*Phencyclidine Use*, 428  
*Plant Poisoning*, 430  
*Salicylate Poisoning*, 431  
*Sedative-Hypnotic and Barbiturate Poisoning*, 432  
*Selective Serotonin Reuptake Inhibitor and Atypical Antidepressant Poisoning*, 433  
*Synthetic Drugs of Abuse*, 434  
*Tricyclic Antidepressant Poisoning*, 435
- 27 Psychiatric/Psychosocial Emergencies, 437**  
**Jaime V. Pitner, MSN, RN, MICP, CEN, RHC**  
 Major Topics, 437  
 General Strategy, 437  
*Safety*, 437  
*Assessment*, 437  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 438  
*Planning and Implementation/Interventions*, 438  
*Evaluation and Ongoing Monitoring*, 438  
*Documentation of Interventions and Patient Response*, 438  
*Age-Related Considerations*, 438
- Specific Psychosocial Emergencies, 439  
*Anxiety and Panic Reactions*, 439  
*Bipolar Disorder*, 441  
*Depression*, 442  
*Eating Disorders*, 444  
*Grief*, 445  
*Homicidal or Violent Behavior*, 446  
*Ineffective Coping and Situational Crisis*, 447  
*Psychotic, or Brief Psychotic, Behavior*, 448  
*Suicide or Suicidal Behavior*, 449
- 28 Respiratory Emergencies, 452**  
**Justin J. Milici, MSN, RN, CEN, CPEN, CFRN, CCRN**  
 Major Topics, 452  
 General Strategy, 452  
*Assessment*, 452  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 454  
*Planning and Implementation/Interventions*, 454  
*Evaluation and Ongoing Monitoring*, 454  
*Documentation of Interventions and Patient Response*, 455  
*Age-Related Considerations*, 455
- Specific Respiratory Emergencies, 455  
*Acute Bronchitis*, 455  
*Acute Respiratory Distress Syndrome*, 456  
*Asthma*, 458  
*Bronchiolitis*, 460  
*Chronic Obstructive Pulmonary Disease*, 461  
*Croup (Laryngotracheobronchitis)*, 463  
*Hyperventilation Syndrome*, 464  
*Pleural Effusion*, 465  
*Pneumonia*, 466  
*Pneumothorax (Iatrogenic and Spontaneous) and Pneumomediastinum*, 469  
*Pulmonary Embolism*, 470
- 29 Shock Emergencies, 473**  
**Reneé Semonin Holleran, FNP-BC, PhD, CEN, CCRN (emeritus), CFRN and CTRN (retired), FAEN**  
 Major Topics, 473  
 General Strategy, 473  
*Assessment*, 473  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 475  
*Planning and Implementation/Interventions*, 475  
*Evaluation and Ongoing Monitoring*, 475  
*Documentation of Interventions and Patient Response*, 476  
*Age-Related Considerations*, 476
- Specific Shock Emergencies, 476  
*Cardiogenic*, 476  
*Distributive*, 477  
*Hypovolemia*, 479  
*Obstructive*, 480
- 30 Wounds and Wound Management, 483**  
**Elda G. Ramirez, PhD, RN, FNP-BC, FAANP, FAEN**  
 Major Topics, 483  
 General Strategy, 483  
*Assessment*, 483  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems*, 484  
*Planning and Implementation/Interventions*, 485



*Evaluation and Ongoing Monitoring, 485*  
*Documentation of Interventions and Patient Response, 485*  
*Age-Related Considerations, 485*  
 Specific Wound Management Emergencies, 486  
*Abrasions, 486*  
*Avulsions, 486*  
*Foreign Bodies, 488*  
*Human Bites, 488*  
*Lacerations, 489*  
*Missile Injuries, 491*  
*Puncture Wounds, 492*  
*Wound Complications, 493*

**PART 3****Trauma Emergencies**

- 31 Mechanism of Injury, 497**  
**Kyle Madigan, RN, MSN, CEN, CFRN, CCRN, CMTE**  
 Major Topics, 497  
 Biomechanics and Kinematics, 497  
*Definitions, 497*  
*Physics Laws and Application, 497*  
 Types of Injuries, 498  
*Blast Forces, 498*  
*Blunt Forces, 499*  
*Penetrating Forces, 499*  
*Predictable Injuries, 500*
- 32 Nursing Assessment and Trauma Resuscitation, 501**  
**Reneé Semonin Holleran, FNP-BC, PhD, CEN, CCRN (Emeritus), CFRN and CTRN (Retired), FAEN**  
 Major Topics, 501  
 Primary Assessment, 501  
*Overview of Major Components, 501*  
*Individual Components of Primary Assessment, 502*  
 Resuscitation, 504  
*Airway Management, 504*  
*Breathing Management, 505*  
*Circulation Management, 505*  
*Disability Management, 505*  
*Exposure and Environmental Management, 506*  
 Secondary Assessment, 506  
*Major Components of Secondary Assessment, 506*  
*Reevaluation Adjuncts, 507*  
 Consider Need for Transfer, 508  
*Indications, 508*  
*Emergency Medical Treatment and Active Labor Act (EMTALA), 508*  
 Analysis: Differential Nursing Diagnoses/  
 Collaborative Problems, 508  
*Risk for Ineffective Airway Clearance, 508*  
*Ineffective Breathing Pattern, 508*  
*Deficient Fluid Volume, 508*  
*Acute Pain, 508*  
*Risk for Infection, 508*  
*Anxiety/Fear, 508*  
 Planning and Implementation/Interventions, 508  
*Determine Priorities of Care, 508*  
*Relieve Anxiety/Apprehension, 508*
- Allow Significant Others to Remain with Patient if Supportive, 508*  
*Educate Patient and Significant Others, 508*  
 Evaluation and Ongoing Monitoring, 508  
*Continuously Monitor and Treat as Indicated, 509*  
*Monitor Patient Response/Outcomes, and Modify Nursing Care Plan as Appropriate, 509*  
*If Positive Patient Outcomes Are Not Demonstrated, Reevaluate Assessment and/or Plan of Care, 509*  
 Documentation of Interventions and Patient Response, 509  
*Subjective Data Collection, 509*  
*Objective Data Collection, 509*  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 509*  
*Planning and Implementation/Interventions, 509*  
*Evaluation and Ongoing Monitoring, 509*  
 Age-Related Considerations, 509  
*Pediatric, 509*  
*Geriatric, 509*
- 33 Abdominal and Urologic Trauma, 510**  
**Melody R. Campbell, DNP, RN, CEN, TCRN, CCRN, CCNS**  
 Major Topics, 510  
 General Strategy, 510  
*Assessment, 510*  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 512*  
*Planning and Implementation/Interventions, 512*  
*Evaluation and Ongoing Monitoring, 512*  
*Documentation of Interventions and Patient Response, 512*  
*Age-Related Considerations, 512*  
 Specific Abdominal Injuries, 513  
*Gastric, 513*  
*Liver, 514*  
*Pancreatic/Duodenal, 515*  
*Small Bowel/Large Bowel, 516*  
*Spleen, 517*  
 Specific Urologic Injuries, 518  
*Bladder, 518*  
*Renal, 519*  
*Urethra, 520*
- 34 Burn Trauma, 523**  
**Cheryl Wraa, RN, MSN, FAEN**  
 Major Topics, 523  
 General Strategy, 523  
*Assessment, 523*  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 525*  
*Planning and Implementation/ Interventions, 525*  
*Evaluation and Ongoing Monitoring, 525*  
*Documentation of Interventions and Patient Response, 525*  
*Age-Related Considerations, 525*  
 Specific Burn Injuries, 526  
*Chemical Burns, 526*  
*Electrical/Lightning Burns, 527*  
*Thermal and Inhalation Burns, 528*

- 35 Neurologic Trauma, 533**  
**Anne C. Albers, RN, MSN, CPNP-PC**  
 Major Topics, 533  
 General Strategy, 533  
 Assessment, 533  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 535*  
*Planning and Implementation/Interventions, 535*  
*Evaluation and Ongoing Monitoring, 535*  
*Documentation of Interventions and Patient Response, 535*  
*Age-Related Considerations, 535*  
 Specific Traumatic Neurologic Injuries, 536  
*Autonomic Dysreflexia in Spinal Cord Injury, 536*  
*Concussion—Mild Traumatic Brain Injury, 536*  
*Increased Intracranial Pressure, 537*  
*Skull Fractures, 539*  
*Spinal Cord Injuries, 540*  
*Traumatic Brain Injury: Cerebral Contusion, 541*  
*Traumatic Brain Injury: Diffuse Axonal Injury (Moderate to Severe), 542*  
*Traumatic Brain Injury: Epidural Hematoma, 543*  
*Traumatic Brain Injury: Penetrating Head Injury, 544*  
*Traumatic Brain Injury: Subdural Hematoma, 545*  
*Traumatic Subarachnoid Hemorrhage, 546*
- 36 Ocular and Maxillofacial Trauma, 549**  
**Jeff Solheim, MSN, RN, CEN, CFRN, FAEN**  
 Major Topics, 549  
 General Strategy, 549  
 Assessment, 549  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 550*  
*Planning and Implementation/Interventions, 550*  
*Evaluation and Ongoing Monitoring, 550*  
*Documentation of Interventions and Patient Response, 551*  
*Age-Related Considerations, 551*  
 Specific Traumatic Ocular Injuries, 551  
*Chemical Burns, 551*  
*Corneal Abrasion, 552*  
*Extraocular Foreign Bodies, 553*  
*Eyelid Laceration, 553*  
*Globe Rupture, 554*  
*Hyphema, 555*  
*Orbital Fracture, 555*  
*Retinal Detachment, 556*  
 Specific Traumatic Maxillofacial Injuries, 557  
*Facial Lacerations and Soft Tissue Injuries, 557*  
*Fractured Larynx, 558*  
*Fractured Tooth, 559*  
*Mandibular Fractures, 561*  
*Maxillary Fractures, 561*  
*Nasal Fracture, 563*  
*Subluxed/Avulsed Teeth, 564*  
*Temporomandibular Joint Dislocation, 565*  
*Zygomatic Fractures, 565*
- 37 Trauma in Pregnancy, 567**  
**Rebecca A. Steinmann, MS, APN, CPEN, CEN, TCRN, CCRN, CCNS, FAEN**  
 Major Topics, 567  
 General Strategy, 567  
 Assessment, 567  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 569*  
*Planning and Implementation/Interventions, 570*  
*Evaluation and Ongoing Monitoring, 571*  
*Documentation of Interventions and Patient Response, 571*  
*Age-Related Considerations, 571*  
 Specific Injuries of the Pregnant Trauma Patient, 571  
*Maternal Cardiopulmonary Arrest, 571*  
*Placental Abruption, 572*  
*Posttraumatic Preterm Labor, 573*  
*Uterine Rupture, 573*
- 38 Orthopedic Trauma, 575**  
**Mary Jo Cerepani, DNP, FNP-BC, CEN**  
 Major Topics, 575  
 General Strategy, 575  
 Assessment, 575  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 578*  
*Planning and Implementation/Interventions, 578*  
*Evaluation and Ongoing Monitoring, 578*  
*Documentation of Interventions and Patient Response, 578*  
*Age-Related Considerations, 578*  
 Specific Soft Tissue Injuries, 580  
*Contusions/Hematomas, 580*  
*Strains and Sprains, 581*  
 Specific Injuries of Bony Skeleton, 583  
*Dislocations, 583*  
*Fractures, 585*  
*Traumatic Amputations, 589*  
 Specific Life-Threatening Complications Associated with Orthopedic Injuries, 591  
*Compartment Syndrome, 591*  
*Fat Embolism Syndrome, 592*  
*Hemorrhage from Fractures, 594*  
*Osteomyelitis, 594*  
*Septic Arthritis, 595*  
 Assistive Walking Devices and Splinting, 596  
*Assistive Walking Devices, 596*  
*Splints, 596*
- 39 Thoracic Trauma, 598**  
**Karen M. O'Connell, Lt Col, USAF, NC; PhD, RN, CEN, NEA-BC**  
 Major Topics, 598  
 General Strategy, 598  
 Assessment, 598  
*Analysis: Differential Nursing Diagnoses/ Collaborative Problems, 599*  
*Planning and Implementation/Interventions, 599*  
*Evaluation and Ongoing Monitoring, 599*  
*Documentation of Interventions and Patient Response, 599*  
*Age-Related Considerations, 599*  
 Specific Thoracic Emergencies, 600  
*Aortic Injuries, 600*  
*Blunt Cardiac Injury, 601*  
*Cardiac Tamponade, 602*  
*Flail Chest, 603*  
*Hemothorax, 604*

*Pneumothorax*, 605  
*Pulmonary Contusion*, 606  
*Rib and Sternal Fractures*, 607  
*Ruptured Diaphragm*, 607  
*Tension Pneumothorax*, 609  
*Tracheobronchial Injury*, 610

#### 40 Sexual Assault, 612

**Joyce Foresman-Capuzzi, MSN, APRN, RN-BC, CCNS, CEN, CPN, CTRN, CCRN, CPEN, SANE-A, AFN-BC, EMT-P, FAEN**

Major Topics, 612

Definitions, 612

*Sexual Violence*, 612

*Sexual Assault*, 612

*Rape*, 612

*Evidence*, 612

*Locard Principle*, 612

*Chain of Custody*, 612

General Strategy, 612

*Clinical Forensic Issues*, 613

*Analysis: Differential Nursing Diagnoses/  
 Collaborative Problems*, 616

*Planning and Implementation/Interventions*, 616

*Evaluation and Ongoing Monitoring*, 617

*Documentation of Interventions and Patient  
 Response*, 617

*Age and Development Related*

*Considerations*, 617

*Physical Evidence Collection*, 618

*Vesicants*, 635

*Cyanide*, 636

*Pulmonary Agents: Phosgene, Chlorine,  
 Anhydrous Ammonia*, 637

*Nuclear and Radiologic Weapons*, 637

*Four Stages of Disaster Management*, 638

*Preparedness*, 638

*Mitigation*, 641

*Response*, 641

*Recovery*, 643

*United States Federal Disaster Response*, 643

*Governmental Preparedness and Response*, 643

*National Response Framework*, 643

*National Incident Management System*, 644

*National Terrorism Advisory System*, 644

*Disaster Resilience*, 644

*Disaster Risk Reduction*, 644

Special Topics, 644

*Women's Health*, 644

*Vulnerable Populations*, 644

#### 42 Education: Professional, Patient, and Community, 647

**Kristine Kenney Powell, MSN, RN, CEN, NEA-BC, FAEN  
 Joni Hentzen Daniels, MSN, RN, CEN, CCRN, CNS**

Major Topics, 647

Educational Principles, 647

*Theoretical Foundations in Knowledge and  
 Learning*, 647

*Adult Learning Concepts*, 647

Professional Education, 648

*Emergency Nursing Knowledge and Skills*, 648

*Learning Facilitator Roles and Responsibilities*, 649

*Department Orientation*, 650

*Emergency Nursing Credentials*, 650

*Educational Approaches*, 650

*Continuing Education*, 652

Patient Education, 652

*Essential Elements*, 652

*Legal Considerations*, 653

*Process*, 653

*Teaching Methods*, 653

*Teaching Effectiveness*, 653

Community Education, 654

*General Approach to Community Health  
 Education*, 654

*Other Community Opportunities*, 655

#### 43 Emergency Patient Transfer and Transport, 657

**Michael De Laby, MSN, RN, CCRN, CFRN, NRP**

Major Topics, 657

Emergency Medical Services System, 657

*Components*, 657

*Selected Definitions*, 657

*Prehospital Triage Decision Scheme*, 657

Interfacility Transport, 657

*Selected Definitions*, 657

*Emergency Medical Treatment and Active Labor  
 Act (EMTALA)*, 659

*Administrative Considerations*, 660

*Clinical Considerations*, 661

*Interfacility Triage Criteria*, 664

National Standards Related to Transport, 664

## PART 4

### Professional Components

#### 41 Disaster Preparedness and Response, 621

**Sue Anne Bell, PhD, FNP-BC**

Major Topics, 621

Disasters, 622

*Disaster Definition*, 622

*Types of Disaster*, 622

Disaster Phases, 623

*Warning*, 623

*Impact*, 623

*Isolation*, 623

*Rescue*, 623

*Restoration*, 623

*Normal Operations*, 623

General Strategy, 623

*National Preparedness*, 624

*Regional and Local Preparedness*, 624

Specific Weapons of Mass Destruction, 627

*Biologic Agents*, 627

*Bacillus anthracis (Anthrax)*, 627

*Clostridium botulinum (Botulism)*, 629

*Yersinia pestis (Bubonic, Septicemic, and  
 Pneumonic Plague)*, 630

*Francisella tularensis (Tularemia)*, 631

*Smallpox*, 632

*Filovirus, Arenavirus (Hemorrhagic Fevers)*, 632

*Ricin*, 633

Chemical Weapons, 634

*Nerve Agents*, 634

- National Emergency Medical Services Education Agenda*, 664
- National Transport Certification*, 665
- Accreditation and Safety Standards for Ambulance Companies*, 665
- 44 Forensic Aspects of Emergency Nursing, 667**  
**Joyce Foresman-Capuzzi, MSN, APRN, RN-BC, CCNS, CEN, CPN, CTRN, CCRN, CPEN, AFN-BC, SANE-A, EMT-P, FAEN**
- Major Topics, 667
- General Overview, 667
- Definitions, 667
- Clinical Forensic Issues, 668
- Emergency Nursing Responsibilities, 668
- Assessment, 668
- Documentation, 668
- Comprehensive Assessment, 668
- Focused Assessment, 668
- Planning and Implementation/Interventions, 669
- Evaluation and Ongoing Monitoring, 669
- Analysis (Differential Nursing Diagnoses/ Collaborative Problems), 669
- Physical Forensic Evidence, 669
- Necessity of Collection and Preservation, 669
- Basics of General Physical Evidence Collection, 669
- Patient Clothing and Items, 670
- Bullets/Gunshot Wounds, 670
- Basic Collection of Random Hair, Debris, and Fibers by Picking, Lifting, Scraping, Combing, or Clipping, 672
- Body Fluids/ Skin Cells or Debris, 672
- Bites, 672
- Pattern Injuries, 672
- Bruises/Contusions/Ecchymosis, 672
- Sharp Edged Weapons (Knife, Ice Pick, Axe, Needle, etc.), 672
- Strangulation, 672
- Sexual Assault, 672
- Postmortem, 672
- Informational Forensic Evidence, 673
- Basic Written Record Documentation Requirements, 673
- Blank Body Diagram, 673
- Photographs, 673
- Chain of Custody, 673
- Documentation in Medical Record, 674
- 45 Legal and Regulatory Issues, 675**  
**Tamara C. McConnell, RN, MSN, LNC, PHN**
- Major Topics, 675
- General Overview, 675
- Sources of Law, 675
- Types of Law, 676
- Negligence, 676
- Other Legal Concepts, 678
- Consent, 678
- Types of Consent, 678
- Consent Issues, 678
- Patient Treatment and Transfer Issues, 680
- Emergency Medical Treatment and Active Labor Act (EMTALA), 680
- Patient Confidentiality, 682
- Reportable Situations, 682
- Requirements, 682
- Nursing Responsibility, 682
- Documentation, 682
- Medical Record Requirements, 682
- Emergency Department Considerations, 683
- Trauma Center Legalities, 683
- Application to Emergency Departments, 683
- Affordable Care Act, 683
- The Patient Protection and Affordable Care Act (PPACA) or Affordable Care Act (ACA), 683
- Hospital Accreditation Organizations, 684
- Primary Reasons for Seeking Accreditation, 684
- Accrediting Organizations, 684
- 46 Professionalism and Leadership, 686**  
**Denise Bayer, MSN, RN, CEN, FAEN,**  
**Nancy M. Bonalumi, DNP, RN, CEN, FAEN,**  
**Vicki Sweet, MSN, RN, MICN, CEN, FAEN**
- Major Topics, 686
- Professionalism, 686
- Components of Professionalism, 686
- Responsible Use of Social Media, 686
- Scope and Standards of Emergency Nursing, 687
- Application of Standards, 687
- Clinical Standards, 687
- Professional Standards, 687
- Career Development, 687
- Concepts and Behaviors, 687
- Professional Development, 687
- Career Goals, 689
- Academic Career Progression, 689
- Advanced Practice Roles in the Emergency Care System, 689
- Emergency Nurses Association Position Statement on Advanced Practice Roles in Emergency Nursing, 689
- Networking, 690
- Definition, 690
- Where to Network, 690
- Who to Network With, 690
- How to Network, 691
- How Not to Network, 691
- Leadership Traits and Styles, 691
- Fundamental Traits of a Leader, 691
- Leadership Competencies, 691
- Collaboration, 691
- Emotional Intelligence, 691
- Systems Thinking, 691
- Human Resource Management, 691
- Change, 691
- Communication, 691
- Conflict Management, 691
- Employee Development, 694
- Integrity, 694
- Critical Thinking, 694
- Financial Management, 694
- Work Environment, 694
- Healthy Work Environment, 694
- Workplace Violence, 695
- Ethical Issues in Emergency Nursing, 695
- Just Culture, 696

- The Impaired Nurse, 696
  - Emergency Nurses Association Position Statement*, 696
  - Emergency Nurses Association Position on Chemical Impairment of Emergency Nurses*, 696
  - American Nurses Association Position on Impaired Nurses (Impaired Nurses Resource Center)*, 696

#### 47 Research and Evidence-Based Practice, 698

**Lisa Adams Wolf, PhD, RN, CEN, FAEN**

Major Topics, 698

Purpose, 699

*Establishes the Scientific Basis for Practice*, 699

*Identifies the Scope of Emergency Nursing Practice*, 699

*Facilitates Evaluation of Emergency Nursing Practice*, 699

*Provides a Basis for Accountability*, 699

*Documents Emergency Nursing Contributions to Health Care*, 699

*Assesses Outcomes of Emergency Nursing Care*, 699

*Validates and Refines Existing Emergency Nursing Knowledge*, 699

*Generates New Knowledge Related to Nursing Care of Emergency Patients*, 699

*Describes and Promotes the Understanding of Human Experiences*, 699

Nursing Education and Research

Functions, 699

*Educational Institutions*, 699

*Nursing Research and Evidence-Based Practice*, 699

Research Projects, 699

*Research Study*, 699

Research Methodologies, 699

*Quantitative*, 699

*Qualitative*, 700

*Mixed Methods*, 700

Research Process Steps, 701

*Question or Problem Formulation (for Quantitative)*, 701

*Problem Statement*, 701

*Literature Review*, 701

*Hypothesis Formulation (if appropriate)*, 701

*Definition of Terms*, 702

*Methodology*, 702

*Data Analysis*, 703

*Findings/Results, Conclusions, and Recommendations*, 703

*Communication of Findings*, 704

Research Ethics, 704

*Human Subjects and Ethical Guidelines*, 704

*Animal Subjects and Ethical Guidelines*, 704

*Scientific Fraud and Misconduct*, 704

Application to Clinical Practice, 704

*Do Study Findings Address Current Clinical Problems? Is There Relevance to Clinical Practice?* 704

*Does Study Include an Appropriate Subject Population?* 704

*Were Subjects' Rights Protected?* 704

*Was Study Ethical, Legal, and Feasible?* 704

*Was a Critical Review of the Literature Done?* 704

*Is Study's Setting Similar to or Different from Intended Practice Setting?* 704

*Is Sample Similar to Intended Population to Which You Hope to Apply Findings?* 704

*Are the Research Instruments or Tools Used Reliable and Valid?* 704

*Are Findings Consistent with Practice?* 704

*Do Other Studies Report Similar or Different Findings?* 704

Critiquing Research, 705

*Quantitative Research Studies*, 705

*Qualitative Research Studies*, 706

Using Evidence-Based Practice, 706

*Components of Evidence-Based Practice*, 706

*Essential Steps of Evidence-Based Practice*, 707

#### 48 Violence in the Emergency Care Setting, 708

**Lisa Adams Wolf, PhD, RN, CEN, FAEN**

Major Topics, 708

Definitions, 708

*Workplace Violence*, 708

*Internal Workplace Violence*, 708

*External Workplace Violence*, 708

Bowie's Expanded Typology of Violence, 708

*Type 1 - External/Intrusive Violence*, 708

*Type 2 - Consumer-Related Violence*, 708

*Type 3 - Staff-Related Violence*, 709

*Type 4 - Organizational Violence*, 709

Violence Against ED Nurses, 709

*How Nurses Feel*, 709

*Contributing Factors to Workplace Violence*, 709

*Elements of Violence Management Programs*, 709

#### Appendixes

**A** Coma Scales, 711

**B** Age-Specific Vital Signs, 713

**C** Infant Pain Scales, 714

**D** Revised Trauma Score, 716

**Index**, 717