Contents

V Introduction to the Continuing Education (CE) Contact Hour Application Process

VII Acknowledgements

1 Chapter 1. Taking the Certification Examination
General Suggestions for Preparing for the Exam
About the Certification Exams

11 Chapter 2. Professional Responsibility
Pamela Smith, MSN, RN, ACNP-BC, CCRN, and Melanie Smith, MSN, RN, ACNP-BC
Acute Care Nurse Practitioner (ACNP)–Patient Relationship
ACNP Scope of Practice
Ethical and Legal Principles
Evidence-Based Practice
Healthcare Delivery-Coordinating Patient Focused Care

39 Chapter 3. General Assessment and Management
Pamela Smith, MSN, RN, ACNP-BC, CCRN; Julie Davey, MSN, RN, APRN-BC;
and Melanie Smith, MSN, RN, ACNP-BC
Assessment of the At-Risk Patient
Evaluating the Plan of Care

53 Chapter 4. Cardiovascular
Julie Davey, MSN, RN, APRN-BC
Acute Coronary Syndromes and Coronary Artery Disease
Contraindications to Thrombolytic Therapy
Dyslipidemia
Hypertension
Heart Failure (HF)
Valvular Disease
Mitral Regurgitation (MR)
Mitral Stenosis (MS)
Mitral Valve Prolapse (MVP)
Aortic Stenosis (AS)
Aortic Regurgitation (AR)
Peripheral Vascular Disease (PVD)
Deep Vein Thrombosis
Pulmonary Hypertension
Cardiac Rhythm Disturbances
Narrow Complex Supraventricular Tachycardia
Ventricular Tachycardia
Ventricular Fibrillation
Asystole
Complete Heart Block (3rd-Degree Atrioventricular Block)
Pericarditis
Cardiac Tamponade
Cardiomyopathy
Dilated Cardiomyopathy
Hypertrophic Cardiomyopathy
Restrictive Cardiomyopathy
Anuerysm
Endocarditis
111 Chapter 5. Pulmonary Disorders
Julie Davey, MSN, RN, APRN-BC
Chronic Obstructive Pulmonary Disease (COPD: Emphysema and Chronic Bronchitis)
Asthma
Bronchitis (Acute Bronchitis)
Respiratory Infections

147 Chapter 6. Endocrine Disorders
Tiffany Boysen, MSN, RN, ACNP-BC, CCRN; Shirlee Drayton-Brooks, PhD, FNP-BC; and Melanie Smith, RN, MSN, ACNP-BC
General Approach
Red Flags
Diabetes Mellitus
Diabetes Mellitus (Type 1)
Diabetes Mellitus (Type 2)
Diabetes Ketoacidosis (DKA)
Hyperosmolar Hyperglycemic Nonketosis (HHNK)
Hypoglycemia
Thyroid Disorders
Adrenal Disorders

193 Chapter 7. Neurologic Disorders
Tiffany Boysen, MSN, RN, ACNP-BC, CCRN, and Deborah Gilbert-Palmer MSN, RN, CS, FNP
General Approach
Red Flags
Stroke and Transient Ischemic Attack
Incidence and Demographics
Myasthenia Gravis
Guillan Barré Syndrome
Parkinson’s Disease
Multiple Sclerosis (MS)
Head Trauma
Spinal Cord Trauma
Meningitis
Seizures and Epilepsy
Alzheimer’s Disease (AD)/Multi-Infarct Dementia (MID)
Delirium
Case Studies

251 Chapter 8. Renal and Urologic Disorders
Pamela Smith, MSN, RN, ACNP-BC, CCRN
General Approach
Red Flags
Urologic Disorders
Renal Disorders
Chapter 9. Gastrointestinal Disorders
Pamela Smith, MSN, RN, ACNP-BC, CCRN

General Approach
Red Flags
Appendicitis
Acute Cholecystitis
Cirrhosis/Chronic Liver Disease
Crohn’s Disease
Diverticulitis/Diverticulosis
Gastrointestinal Bleeding (GIB)
Acute Hepatic Failure
Acute Viral Hepatitis
Large Bowel Obstruction (LBO)
Mesenteric Ischemia
Acute Pancreatitis
Peptic Ulcer Disease (PUD)
Peritonitis
Small Bowel Obstruction (SBO)
Ulcerative Colitis (UC)

Chapter 10. Hematologic Disorders
Pamela Smith, MSN, RN, ACNP-BC, CCRN;
Tiffany Boysen, MSN, RN, ACNP-BC, CCRN, and
Elizabeth Petit de Mange, PhD, MSN, NP-C, RN

General Approach
Red Flags
Normocytic Anemias
Hypochromic Anemias
Megaloblastic Anemias
Coagulation Disorders
Oncology
Lymphoid Cancers
Lymphoma
Case Studies

Chapter 11. Immunologic Disorders
Pamela Smith, MSN, RN, ACNP-BC, CCRN

General Approach
Red Flags
Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus Infection (HIV)
Acute Allergic Reactions
Amyloidosis
Sarcoidosis
Scleroderma (Systemic Sclerosis)
Systemic Lupus Erythematosus (SLE)
Immunosuppression

Chapter 12. Musculoskeletal Disorders
Julie Davey, MSN, RN, APRN-BC

Trauma
Degenerative Joint Diseases
Chapter 13. Psychosocial Health Issues
Julie Davey, MSN, RN, APRN-BC
Violence
Depression
Substance Abuse
Anxiety Disorders
Grief and Bereavement
Sexuality
Powerlessness
Altered Mental Status

Chapter 14. Sexually Transmitted Infections
Pamela Smith, MSN, RN, ACNP-BC, CCRN
General Approach
Red Flags
Chlamydia
Gonorrhea (GC)
Syphilis
Genital Herpes Simplex Virus (HSV) Infection
Human Papillomavirus Infection (HPV)

Chapter 15. Palliative Care/End-of-Life Care
Hope Moser, DNP, ANP, BC
Description
Palliative Care
Pain

Chapter 16. Health Promotion
Julie Davey, MSN, RN, APRN-BC
Diet and Nutrition
Disease Prevention
Recommended Adult Screening Practices
Recommended Adult Immunizations
Additional Risk Assessment Principles
General Influences on Health Care and Treatment Considerations

Chapter 17. Nutritional Imbalances
Pamela Smith, MSN, RN, ACNP-BC, CCRN
Description
Etiology
Incidence and Demographics
Risk Factors
Prevention and Screening
Assessment
Differential Diagnosis
Management
Special Considerations
When to Consult, Refer, or Hospitalize
Follow-Up
Chapter 18. Transplants
Melanie Smith, MSN, RN, ACNP-BC
Liver Transplantation
Lung Transplantation
Heart Transplant
Kidney (Renal) Transplant
Pancreas Transplantation
Transplant Terminology
Immunosuppressive Agents

Chapter 19. Fever and Shock
Pamela Smith, MSN, RN, ACNP-BC, CCRN
General Approach
Red Flags
Fever
Shock

Chapter 20. Fluid, Electrolyte, and Acid–Base Balance
Pamela Smith, MSN, RN, ACNP-BC, CCRN
Hyponatremia
Hyponatremia
Hypokalemia
Hyperkalemia
Hypocalcemia
Hypercalcemia
Hypomagnesemia
Hypomagnesemia
Hypophosphatemia
Hyperphosphatemia
Acid–Base Disorders
Metabolic Acidosis
Respiratory Acidosis
Respiratory Alkalosis

Chapter 21. Poisoning and Drug Toxicities
Pamela Smith, MSN, RN, ACNP-BC, CCRN
Specific Poisonings/Toxicities
Antiarrhythmic Drug Overdose
Anticholinergic Agents
Anticonvulsant Agents
Antidepressant Toxicity
Antipsychotic Drug Toxicity
Carbon Monoxide Poisoning
Cardiac Glycoside Poisoning
Cholinergic Toxicity
Lithium Toxicity
Opioid Toxicity
Pesticide Poisoning
Salicylate Toxicity
Sedative-Hypnotic Drug Toxicity
Stimulant Toxicity
Theophylline Toxicity
867 Chapter 22. Infections
Pamela Smith, MSN, RN, ACNP-BC, CCRN
Nosocomial Infections
Miscellaneous Nosocomial Infections
Community-Acquired Infections

905 Appendix A. Immobility
Pamela Smith, MSN, RN, ACNP-BC, CCRN

911 Appendix B. Intravenous Fluid Management
Pamela Smith, MSN, RN, ACNP-BC, CCRN
General Principles
Intravenous Fluid Administration

919 Appendix C. Bites and Stings
Pamela Smith, MSN, RN, ACNP-BC, CCRN
Snake Bites
Spider Bites and Scorpion Stings

925 Appendix D. Wound Care
Pamela Smith, MSN, RN, ACNP-BC, CCRN

933 Appendix E. Review Questions

941 Appendix F. Answers to the Review Questions

947 Index

963 About the Authors