

Pediatric Learning Solutions

Pediatric Learning Solutions' course alignment with CPEN® Exam Content Outline.

The following Pediatric Learning Solutions courses align to focus areas of the Certified Pediatric Emergency Exam (CPEN®) Content Outline. These courses equip candidates with much of the foundational knowledge necessary to approach the CPEN® exam with confidence. Go to the [Board of Certification for Emergency Nursing](#) site for more information on the CPEN® Exam.



Triage Process & Assessment

History and Physical

- Age-Specific Care for:
 - Adolescents
 - Adults
 - Infants
 - Newborns
 - Preschoolers
 - Toddlers
 - School-Age Children
- Pediatric Assessment:
 - The Cardiovascular System
 - The Gastrointestinal System
 - The Genitourinary System
 - The Integumentary System
 - The Musculoskeletal System
 - The Neurological System
 - The Respiratory System
 - Performing a Head-to-Toe Assessment
- Assessment of the Critically Ill Child
- Comprehensive Assessment of the Neonate
- Child Abuse and Neglect
- Fluid and Electrolytes:
 - Laboratory Assessment
 - Assessment
 - Physiological Differences
- *Glucose Homeostasis in the Neonate
- Introduction to Pediatric Pressure Injuries
- Pressure Injuries in the Pediatric Population: Staging and Care
- Pressure Injuries Staging Assessment
- Neonatal Sepsis
- Pediatric Sepsis
- Caring for the Behaviorally Challenged Patient
- Care of the Pediatric Patient with Suicidal Ideation

Emergency Preparedness

- Emergency Operations Management
- Anthrax: What Clinicians Need to Know

Legal Issues

- Clinical Delegation
- Emergency Operations Management
- EMTALA
- HIPAA
- Introduction to Ethics
- Child Abuse and Neglect

Family

- Child Abuse and Neglect
- Domestic Violence
- Family-Centered Care in the ICU
- Health Care Advance Directives: Communicating Wishes
- Introduction to Ethics
- Care of the Dying Child:
 - Grief
 - Dying Process
- Organ and Tissue Donation: The Gift of Life
- Therapeutic Relationships and Professional Behavior

Pain

- Neonatal Pain Assessment and Management
- Pain Management: Assessment of Pain
- Pain Pathophysiology
- Pharmacological Management of Pediatric Pain
- Non-Pharmacological Therapies in the Management of Pediatric Pain
- Pain Technologies: PCA & Epidural Analgesia
- Procedural Sedation in the Pediatric Patient

Medical Emergencies: Respiratory, Cardiovascular and Neurological

Respiratory

- Pediatric Assessment: The Respiratory System
- Basic Principles of Oxygen Therapy, Specialty Gases and Noninvasive Ventilation
- Blood Gas Series: Intro to Arterial Blood Gas Interpretation
- Blood Gas Series: Understanding Abnormal Blood Gases
- Chest X-ray Interpretation
- Lower Airway Disease
- Case Studies in Respiratory Illness
- Cystic Fibrosis
- Acute Respiratory Distress Syndrome
- Neonatal Respiratory Distress Syndrome
- Meconium Aspiration
- Pediatric Sepsis
- Status Asthmaticus
- Tuberculosis
- Nursing Management of Chest Tubes
- Respiratory Inhalation Medications
- Advanced Concepts in Respiratory Physiology
- Mechanical Ventilation: Introduction to Pediatric Practices
- Preventing Ventilator-Associated Pneumonia
- Caring for a Child with a Tracheostomy
- Caring for the Pediatric Patient in Shock
- Emergency Response for the Non-ALS Care Provider
- Management of the Difficult Airway

Medical Emergencies: Respiratory, Cardiovascular and Neurological *cont.*

Cardiovascular

- Arrhythmia Recognition & Care Management Series
 - Arrhythmia Recognition: Structure and Function of the Heart
 - Arrhythmia Recognition: Electrophysiology
 - Arrhythmia Recognition: The Cardiac Monitor
 - Arrhythmia Recognition: Lines, Waves and Segments
 - Arrhythmia Recognition: Analyzing the ECG Rhythm Strip
 - Arrhythmia Recognition: Sinus
 - Arrhythmia Recognition: Atrial
 - Arrhythmia Recognition: Junctional
 - Arrhythmia Recognition: Ventricular
 - Arrhythmia Recognition: Atrioventricular Blocks
 - Arrhythmia Recognition: Channelopathies
 - Permanent Pacemakers and ICDs
- Acquired Heart Disease
- Congestive Heart Failure
- Congenital Heart Disease: An Overview
- Congenital Heart Disease: Acyanotic Defects
- Congenital Heart Disease: Cyanotic Defects
- Emergency Response for the Non-ALS Care Provider
- Introduction to Hemodynamic Monitoring
- Pediatric Assessment: The Cardiovascular System
- Pediatric Sepsis
- Caring for the Pediatric Patient in Shock
- Fluid and Electrolyte Management: Dehydration
- Fluid and Electrolyte Management: Replacement Therapy
- Vasoactive Medications

Post-Resuscitative Care

- Basic Principles of Oxygen Therapy, Specialty Gases and Noninvasive Ventilation
- Blood Gas Series: Intro to Arterial Blood Gas Interpretation
- Blood Gas Series: Understanding Abnormal Blood Gases
- Chest X-ray Interpretation
- Arrhythmia Recognition & Care Management Series
- Mechanical Ventilation: Introduction to Pediatric Practices
- Preventing Ventilator-Associated Pneumonia
- Pain Management: Assessment of Pain
- Pharmacological Management of Pediatric Pain
- Non-Pharmacological Therapies in the Management of Pediatric Pain
- *Sedation and Analgesia in the ICU
- Blood Administration: Administration of Blood and Blood Components
- Blood Administration: Blood Components
- Blood Administration: Transfusion Reaction
- Fluid and Electrolyte Management: Replacement Therapy

Neurological

- Pediatric Assessment: The Neurological System
- Hydrocephalus
- Hypoxic Ischemic Encephalopathy
- Intracranial Pressure Monitoring
- Meningitis and Encephalitis
- Neonatal Seizures
- Status Epilepticus
- *Pediatric Stroke (New – to be released in late 2020)*

Additional Medical Emergencies

Endocrine/Metabolic

- Diabetes Mellitus
- Diabetes Ketoacidosis
- Diabetes Insipidus and SIADH
- *Glucose Homeostasis in the Neonate
- Metabolic Disorders of the Newborn

Musculoskeletal

- Pediatric Assessment: Musculoskeletal System
- Pediatric Orthopedic Trauma
- Pediatric Spinal Column/Cord Injuries
- Preventing Pediatric Falls

Integumentary

- Pediatric Assessment: The Integumentary System
- Introduction to Pediatric Pressure Injuries
- Pressure Injuries in the Pediatric Population: Staging and Care
- Pressure Injuries Staging Assessment

Additional Medical Emergencies cont.

Gastrointestinal

- Pediatric Assessment: The Gastrointestinal System
- Fluid and Electrolytes: Physiological Differences
- Fluid and Electrolytes: Laboratory Assessment
- Fluid and Electrolytes: Physical Assessment
- Fluid and Electrolytes Imbalance: Dehydration
- Fluid and Electrolytes: Replacement Therapy
- Fluid and Electrolytes: Water Intoxication and Fluid Shift
- *Esophageal Atresia and TE Fistula
- Necrotizing Enterocolitis
- *Pediatric Nutritional Overview
- Abdominal Emergencies

Genitourinary

- Pediatric Assessment: The Genitourinary System
- Preventing Catheter-Associated Urinary Tract Infections
- Renal Failure in the Pediatric Patient

Maxillofacial

- Pediatric Assessment: The Musculoskeletal System
- Management of the Difficult Airway
- Pediatric Orthopedic Trauma

Sepsis

- Neonatal Sepsis
- Pediatric Sepsis
- Caring for the Pediatric Patient in Shock

Allergic

Reactions/Anaphylaxis

- Caring for the Pediatric Patient in Shock
- Pediatric Toxicology Exposure

Ocular

- Pediatric Assessment: Performing a Head-to-Toe Assessment
- Pediatric Orthopedic Trauma

Hematology/Oncology

- Anemia and Polycythemia in the Neonate
- Blood Administration: Administration of Blood and Blood Components
- Blood Administration: Blood Components
- Blood Administration: Transfusion Reaction
- Blood Administration: Exchange Transfusion
- Disseminated Intravascular Coagulation
- Hemophilia: An Overview
- Hyperbilirubinemia
- Sickle Cell Crisis
- Thrombocytopenia: ITP and HIT/T
- Chemotherapy General Principles and Safety
- Oncologic Emergencies

Special Considerations

Neonatal Emergencies

- Anemia and Polycythemia in the Neonate
- Apnea of Prematurity
- Comprehensive Assessment of the Neonate
- *Congenital Diaphragmatic Hernia
- *Esophageal Atresia and TE Fistula
- *Extrauterine Life: Fetal to Neonatal Circulation
- *Extrauterine Life: Assessment of the Neonate's Transition
- *Glucose Homeostasis in the Neonate
- Hydrocephalus
- Hyperbilirubinemia
- Hypoxic Ischemic Encephalopathy
- *Maternal Factors Affecting the Newborn
- Meconium Aspiration Syndrome
- Necrotizing Enterocolitis
- Neonatal Pain Assessment and Management
- Neonatal Pharmacokinetics
- Neonatal Seizures
- Neonatal Sepsis
- Metabolic Disorders of the Newborn
- Thermoregulation of the Newborn
- *Transient Tachypnea of the Newborn

Special Considerations cont.

Behavioral Emergencies

- Attention-Deficit/Hyperactivity Disorder (ADHD)
- Autism Spectrum Disorder (ASD)
- Care of the Pediatric Patient with Suicidal Ideation
- Caring for the Behaviorally Challenged Patient
- Crisis Prevention through Verbal and Nonverbal De-escalation Strategies
- Effective Use of Psychotropic Medications in the Prevention and Management of Disruptive Behaviors
- Oppositional Defiant Disorder (ODD)
- Pediatric Restraint and Seclusion
- Trauma-Informed Practice: Concepts, Goals and Principles
- Implementing Trauma-Informed Sensitive Practice
- Anxiety Disorders and Obsessive-Compulsive Disorder
- Eating Disorders
- Pediatric Mood Disorders
- Psychotic Disorders
- Trauma and Stressor-related Disorders

Maltreatment Emergencies

- Child Abuse and Neglect
- Domestic Violence

Environmental and Toxicology

- Anthrax: What Clinicians Need to Know
- Pediatric Toxicology Exposure
- Thermoregulation of the Newborn
- Caring for the Pediatric Patient

Communicable Diseases

- *Bloodborne Pathogens
- Management of MDROs in the Health Care Setting (Clinical)
- Tuberculosis

Trauma Emergencies

- Pediatric Abdominal Trauma
- Pediatric Orthopedic Trauma
- Pediatric Spinal Column/Cord Injuries
- Pediatric Thoracic Trauma
- Pediatric Traumatic Brain Injury
- Pediatric Burn Wounds
- The Deadly Triad of Trauma
- *Submersion Injuries (New – to be released in late 2020)*

**Not currently included in ED Suite*