

# 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.

\*These courses are not currently included in the ED Suite.



# Triage and Process Assessment

## History and Physical

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

## Emergency Preparedness

- ✓ Healthcare Emergency Management
- ✓ Anthrax: What Clinicians Need to Know

## Legal Issues

- ✓ Clinical Delegation
- ✓ Healthcare Emergency Management
- ✓ EMTALA
- ✓ HIPAA Overview
- ✓ Introduction to Ethics
- ✓ Child Abuse and Neglect

## Family

- ✓ Child Abuse and Neglect
- ✓ Intimate Partner Violence
- ✓ Family-Centered Care in the ICU
- ✓ Health Care Advance Directives: Communicating Wishes
- ✓ Introduction to Ethics
- ✓ Care of the Dying Child: Grief
- ✓ Care of the Dying Child: The 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

## Emergency Intake

- ✓ Emergency Response for the Non-ALS Care Provider

# Medical Emergencies: Respiratory, Cardiovascular and Neurological

## Respiratory

- ✓ Pediatric Assessment: The Respiratory System
- ✓ Basic Principles of Oxygen Therapy, Specialty Gases and Noninvasive Ventilation
- ✓ Introduction to Arterial Blood Gas Interpretation
- ✓ Understanding Abnormal Blood Gases
- ✓ Chest X-ray Interpretation
- ✓ Lower Airway Diseases
- ✓ Cystic Fibrosis
- ✓ Acute Respiratory Distress Syndrome
- ✓ Neonatal Respiratory Distress Syndrome
- ✓ Meconium Aspiration Syndrome
- ✓ 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

## Cardiovascular

- ✓ Arrhythmia Recognition: Just the Basics for the Pediatric Clinician
- ✓ 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
- ✓ 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

## Neurological

- ✓ Pediatric Assessment: The Neurological System
- ✓ Hydrocephalus
- ✓ Hypoxic Ischemic Encephalopathy
- ✓ Intracranial Pressure Monitoring and Management
- ✓ Meningitis and Encephalitis
- ✓ Neonatal Seizures
- ✓ Status Epilepticus
- ✓ Pediatric Stroke

## Post-Resuscitative Care

- ✓ Basic Principles of Oxygen Therapy, Specialty Gases and Noninvasive Ventilation
- ✓ Introduction to Arterial Blood Gas Interpretation
- ✓ 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 and Blood Components Administration
- ✓ Blood Components
- ✓ Blood Transfusion Reaction
- ✓ Fluid and Electrolyte Management: Replacement Therapy

## 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

### Allergic Reactions/Anaphylaxis

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

### Integumentary

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

### Genitourinary

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

### Ocular

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

## 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

## Maxillofacial

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

## Special Considerations

### 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
- ✓ Intimate Partner Violence

### Environmental and Toxicology

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

## Sepsis

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

## Hematology/Oncology

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

## Communicable Diseases

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

## 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

# 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
- ✓ Pediatric Drowning