

Introduction



Introduction

Introduction to Peds EM Bootcamp

The Practice of Pediatric EM

The Practice of Pediatric EM

Clinical Approach



Practical Approaches to Unique Pediatric Presentations

Practical Approach: The Crashing Neonate

Practical Approach: The Congenital Heart Baby

Practical Approach: Jaundice

Practical Approach: The Crying Infant

Practical Approach: Respiratory Distress

Practical Approach: Pediatric Trauma

Practical Approach: Pediatric Painful Limp

Practical Approach: Non-accidental Trauma

Practical Approach: Pediatric Burns

Practical Approach: Status Epilepticus

Practical Approach: The Metabolic Kid

Practical Approach: Pediatric DKA



Disease-based Approach

Abdomen/GI

Deep Dive: Abdominal Pain

Deep Dive: Nausea, Vomiting, and Diarrhea

Abdominal Emergencies Overview

Appendicitis

Bilious Vomiting

Constipation

Foreign Bodies - GI

Gastrostomy Tube Complications

Hirschsprung

Intussusception

Meckel's Diverticulum
Necrotizing Enterocolitis
Omphalitis
Pyloric Stenosis
Extra-abdominal Causes of Abdominal Pain

Cardiovascular

Pediatric Chest Pain and ECG
Pediatric ECG Basics
Arrhythmias
Acquired Heart Disease
Congenital Heart Disease
Pediatric Venous Thromboembolism
The Blue Baby

Dermatology

Common Pediatric Rashes

Ear, Nose, and Throat

Otitis Media
Aural Foreign Bodies
Nasal Foreign Bodies
Foreign bodies - Acute asphyxia
Foreign Bodies - Bronchos
Strep Pharyngitis
Mononucleosis

Endocrine Metabolic Nutrition

Diabetic Ketoacidosis
Metabolic Emergencies
Inborn Errors of Metabolism
Congenital Adrenal Hyperplasia
Dehydration
Electrolyte Emergencies

The Genitourinary and Renal Systems

Female GU Emergencies
Penile Emergencies
Testicular Emergencies
Other GU Emergencies

Hematologic Oncology

Oncologic Emergencies

Anemia

Sickle Cell Crises

Immunologic

Henoch Schonlein Purpura

Kawasaki Disease

Infectious Diseases

Pediatric Fever

Fever: First Impressions

Fever: Work-Up

Fever: Pearls and Documentation

Influenza

Pneumonia

Upper and Lower Respiratory Tract Infections

Measles

Meningitis and Meningococemia

Necrotizing Fasciitis

The Red Butt

The Red Eye

Roseola

Sepsis (NEW)

Urinary Tract Infections

Deep Dive: Urinary Tract Infections

Musculoskeletal

Triplane, Supracondylar & Radial head injuries

Forearm/elbow injuries, Ossification centers

SCFE, Legg-Calve-Perthe, Toddler's fractures

Osgood Schlatter and Sever's disease

Salter-Harris

Neonatal

Neonatal Emergencies: Overview

Neonatal Resuscitation

Neonatal Seizures

Critically Ill Neonate Summary

Neurology

Acute Cerebellar Ataxia
Acute Disseminated Encephalomyelitis
Altered Mental Status Approach
CNS Shunt Complications
First-time Seizure
Headache
Must Know CNS Emergencies
Neurologic Emergencies Summary
Stroke
Febrile Seizure
Status Epilepticus Etiologies
Transverse Myelitis
Unusual CNS Emergencies Summary

Psychiatry

Pediatric Psychiatric Emergencies

Thoracic Respiratory

Asthma Management
Asthma Exacerbation Intubation & Cardiac Arrest
Bronchiolitis
Deep Dive: Croup and Bronchiolitis
Noninvasive Positive Pressure Ventilation
Tracheostomy Complications

Trauma and Critical Care

Pediatric Trauma Overview
Pediatric Airway Anatomy
Bag Valve Mask
Pediatric intubation & the difficult airway
Jet Ventilation and Needle Cricothyrotomy
Cervical Spine Trauma
Chest Trauma
Abdominal and Orthopedic Trauma
Head Trauma
Postpalatal Trauma
Deep Dive: Head Injury
Burns
Pediatric Advanced Life Support
Resuscitation Principles

Toxicology

Pediatric Toxicology Overview
Amanita Phalloides Overdose
Camphor Overdose
Ethylene Glycol Overdose
Lomotil Overdose
Salicylate Overdose (methyl salicylate)
Sulfonylurea Overdose
Tricyclic Antidepressant Overdose
Theophylline Overdose
Pediatric Toxicology Summary
Calcium Channel Blocker Toxicity
Beta Blocker Toxicity
Acetaminophen Toxicity
Opioid Toxicity



Special Topics

BRUE
Child Abuse - Overview
Child Abuse - Cases
Child Abuse - Nonaccidental trauma
Inconsolable Child: Crying Infant Overview
Inconsolable Child: Chest
Inconsolable Child: Colic
Inconsolable Child: Extremities
Inconsolable Child: GI & GU
Inconsolable Child: Head
Inconsolable Child: Crying infant algorithm

Procedural Fundamentals



Intro to Procedures

Basic Approach to Pediatric Procedures



Anesthesia

Anatomical Nerve Blocks

Digital Nerve Blocks
Tips and Tricks
Dental: Anterior Superior Alveolar

Dental: Middle Superior Alveolar
Dental: Posterior Superior Alveolar
Dental: Gow-Gates
Dental: Supraperiosteal
Auricular / Ear
Infraorbital
Mental
Supraorbital

Procedural Sedation

Procedural Sedation
Procedural Sedation: Approach and Techniques
Analgesic Devices
Analgesic Medications



Genitourinary

Urine Catheterization



HEENT

Dental

Dental Fracture Repair
Dental Splinting

Ear

Foreign Body Removal: Ear

Nasal

Pediatric Epistaxis
Foreign Body Removal: Nose

Ophthalmology

Introduction to Ophthalmologic Procedures
Visual Acuity Exam
Ophthalmoscope Exam
Fluorescein Exam
Slit Lamp Exam
Retracting and Everting the Eyelid
Foreign Body Removal: Eye



Imaging

Pediatric Musculoskeletal Plain Films

CXR

Pediatric Chest and C-spine X-ray

Ultrasound

Ultrasound Transducer Basics

Gallbladder Ultrasound

Biliary: Abnormal Findings

Bladder Ultrasound (bladder volume)

Cardiac Ultrasound: Aortic Arch, Suprasternal View

Cardiac Ultrasound: Subcostal View

Cardiac Ultrasound: Parasternal View

Cardiac: Abnormal Findings

FAST: Ultrasound Image Optimization

FAST: Right Upper Quadrant

FAST: Left Upper Quadrant

FAST: Female Pelvis

FAST: Male Pelvis

FAST: Abnormal Findings

Right Kidney Ultrasound

Left Kidney Ultrasound

Renal: Abnormal Findings

Lung Ultrasound

Lung: Abnormal Findings

Abdominal Aorta Ultrasound (female)

IVC Ultrasound



Musculoskeletal

Joint Arthrocentesis

Arthrocentesis Tips & Tricks

Elbow Arthrocentesis

Knee Arthrocentesis

Wrist Arthrocentesis

Ankle Arthrocentesis

Shoulder Arthrocentesis

Joint Reduction

Shoulder

Elbow

Radial Head Subluxation “Nursemaid’s”

Digit

Hip
Knee
Patellar
Ankle

Splinting

Basic Wetting Techniques
Knee Immobilizer / Medial-Lateral Strut
Volar
Thumb Spica
Ulnar Gutter
Sugar-Tong Humerus / Double Sugar-Tong
Long Leg Posterior
Ankle Wraps and Semirigid Orthosis
U-Splint/Stirrup
Splinting Tips and Tricks
Short Leg Posterior
Finger Splints
Sugar-Tong Forearm
Long Arm Posterior

Ring Removal

String-Wrap Technique
String-Wrap Technique: Oxygen Mask Strap
Tungsten: Locking Pliers Technique
Ring Cutter: Electric/Dremel
Ring Cutter: Manual Cutting Disk



Neurology

Lumbar Puncture



Pediatric Airway Management

BVM, Artificial Airways
LMA, Bougie
Percutaneous Jet Ventilation
Endotracheal, RSI
Gastric Distention



Trauma and Critical Care

IO Access

IO Anatomy and Placement

IO Access: Tips and Tricks

IO Access: Removal

IV Access

Umbilical Vein Line



Wound Care in Children

Introduction

Wound Care in Children

Simple Wound Repair

Wounds That Shouldn't Be Closed

Wound Prep

Skin Adhesive Glue

Skin Tape

Staples

Scalp Lacerations

General Suturing Techniques / Instrument Tie

Selecting Suture Types

Simple Interrupted

Deep Dermal

Horizontal Mattress

Corner Stitch

Vertical Mattress

Elliptical Cut with Undermining

Dog Ear Correction

Figure 8 Stitch for Hemostasis

Suture Removal

Staple Removal

Soft Tissue

Skin Foreign Body Removal

Standard Incision and Drainage

Loop Drainage

Ingrown Nail Removal

Nail Bed Laceration

Paronychia

Felon

Subungual Hematoma