

## 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