

Introduction



Introduction

Introduction to Adult EM Bootcamp

The Practice of Emergency Medicine



The Practice of Emergency Medicine

Practice of EM: The Unique Environment & Mindset

Practice of EM: Clinical Decision-Making

Practice of EM: Consults and Patient Communication

Medicolegal: Basics

Medicolegal: Malpractice Secrets

Medicolegal: Best Practices to Mitigate Risk

Medicolegal: Against Medical Advice

Medicolegal: “Front Door, Back Door Approach”

Medicolegal: Evaluating the Bounceback Patient

The Art of Being An APP in the ED

Clinical Approach



Disease-based Approach

Cardiovascular

Acute Coronary Syndrome: ED Evaluation

Acute Coronary Syndrome: ED Management

Acute Aortic Dissection

Acute CHF Exacerbation

Deep Venous Thrombosis

Elevated Blood Pressure, Asymptomatic

Dermatology

Approach to Rashes: Morbilliform Pattern

Papulosquamous, Vasculopathic, & Vesiculobullous Patterns

Urticarial, Cellulitis/Pseudocellulitis, & Erythrodermic Patterns

Rash Emergencies

Blisters

Bites and Infestations

Burns: The ABCs
Burns: ED Pro-Tips
Contact Dermatitis
Eczema
Psoriasis
Tinea
Topical Steroids
Wound Care

Ear, Nose, and Throat

Dental Pain
Ear Pain: Can't Miss Diagnoses
Ear Pain: Common ED Diagnoses
Epistaxis

Ophthalmology

Approach to Eye Emergencies
Painful Red Eye
Eye Trauma
Acute Vision Loss
Common Non-Emergent Diagnoses

Infectious Disorders

Bacterial Meningitis
HIV/AIDS Basics
Pneumonia: Making The Diagnosis
Pneumonia: ED Management
Skin and Soft Tissue Infections: Abscesses
Skin and Soft Tissue Infections: Animal and Human Bites
Skin and Soft Tissue Infections: Cellulitis
Skin and Soft Tissue Infections: Diabetic Foot Infections
Skin and Soft Tissue Infections: Flesh Eating Bacteria
Skin and Soft Tissue Infections: Rabies Vaccination
Skin and Soft Tissue Infections: Septic Arthritis
Skin and Soft Tissue Infections: Tetanus
Skin Infections: Key Points
Sepsis
Sexually Transmitted Infections
Upper Respiratory Illness
Urinary Tract Infection

Endocrine/Metabolic

End-stage Renal Disease: Common Issues

Hyperglycemic Emergencies

Hypoglycemic Emergencies

Potassium Abnormalities

Sodium Abnormalities

Gastrointestinal

Anorectal Complaints

Appendicitis

Biliary Complications

GI Foreign Bodies

Small Bowel Obstruction

Upper GI Bleed

Genitourinary

Kidney Stones

Testicular Emergencies

Epididymitis

Hematologic/Immunologic

Allergic Reactions

Acute Anemia: When To Transfuse

Acute Anemia: A Simplified Approach

Anticoagulation Reversal

Onc Emergencies: Metabolic

Onc Emergencies: Hematologic & Structural

Musculoskeletal

Orthopedic Principles

The Wrist

Hand

Forearm / Elbow

Shoulder / Humerus

Knee

Tibia / Fibula

Ankle Injuries

Pelvis / Hip / Femur

Special Considerations

Foot Injuries

Neurology

Neuro Exam Review
Non-stroke Causes of Neuro Deficits
Seizures
Spinal Cord Pathology
Stroke
TIA
Non-Traumatic Subarachnoid Hemorrhage

OB/GYN

Delivery in the Emergency Department
Elevated Blood Pressure in the Pregnant Patient
Fetal Monitoring
Hyperemesis Gravidarum
Premature Rupture of Membranes
Reproductive-Age Females
Vaginal Bleeding in Pregnancy

Pulmonary

Pulmonary Embolism: Clinical Decision Tools
Pulmonary Embolism: Diagnostic Testing & Disposition
Pulmonary Embolism: ED Management
Pulmonary Embolism: Work Up In Pregnancy
Asthma & COPD Exacerbation: Initial Management
Asthma & COPD Exacerbation: Emergent Care
Mechanical Ventilation Basics
Mechanical Ventilation: Alarms & Special Cases
Tuberculosis Evaluation

Psychiatry

Medical Clearance: Psych or Medical Etiology?
Assessing and Managing The Agitated Patient

Trauma

Overview of Approach to Trauma
Head Trauma
Facial Trauma
Neck and Spine Trauma
Chest Trauma
Abdominal Trauma
Upper Extremity Injuries
Lower Extremity Injuries

Toxicology

Toxicology Basics: Poison Control & Classic Toxidromes

Toxicology Basics: Antidotes, EKGs, and Labs

Special Topics in Toxicology: GI Decontamination, APAP, and ETOH Withdrawal

Special Topics in Toxicology: ETOH Intoxication, Opioids, Carbon Monoxide, and Medical Clearance



Common Chief Complaints

Abdominal Pain: Can't Miss Diagnosis Framework

Abdominal Pain: ED Evaluation & Management

Altered Mental Status

Arrhythmia Simplified: Bradycardia

Arrhythmia Simplified: Tachycardia

Chest Pain

Dizziness

Headache

Low Back Pain

Shock: Making The Diagnosis

Shock: ED Management

Shortness of Breath: Can't Miss Diagnosis Framework

Shortness of Breath: ED Evaluation and Management

Syncope

Vaginal and Pelvic Pain: ED Evaluation

Vaginal and Pelvic Pain: Can't Miss Diagnoses

Vomiting and Diarrhea: ED Work-Up & Common Diagnoses

Vomiting and Diarrhea: Can't Miss Diagnoses

Procedural Fundamentals



Airway

Airway Management

Basic Rapid Sequence Intubation

Difficult Intubations

Percutaneous Cricothyrotomy

Surgical Cricothyrotomy



Anesthesia

Anatomical Nerve Blocks

Tips and Tricks

Auricular/Ear

Supraorbital
Infraorbital
Mental
Dental: Anterior Superior Alveolar
Dental: Gow-Gates
Dental: Middle Superior Alveolar
Dental: Posterior Superior Alveolar
Dental: Supraperiosteal
Digital

Ultrasound-guided Regional Nerve Blocks

Interscalene Brachial Plexus
Supraclavicular Brachial Plexus
Infraclavicular Brachial Plexus
Forearm: Median
Forearm: Radial
Forearm: Ulnar
Upper Arm: Median
Upper Arm: Ulnar
Upper Arm: Radial
Tibial

Procedural Sedation

Procedural Sedation and Analgesia: The Process
Procedural Sedation and Analgesia: Medications



Cardiovascular

IO Access: Anatomy
IO Placement: Power Drill
IO Placement: Manual
IO Access: Removal
IO Access: Tips and Tricks
Sites for Central Venous Access Placement
Central Venous Access: Internal Jugular
Central Venous Access: Subclavian



ECG Interpretation

Basic ECG Interpretation

Basic ECG Interpretation

ECG with Dr. Mattu

Common STEMI Patterns

Subtle-Ts

STEMI Equivalents

Pulmonary Embolism

STEMI Mimics: Acute Pericarditis

STEMI Mimics: Benign Early Repolarization

STEMI Mimics: LVH with Repolarization

Syncope: Hypertrophic Cardiomyopathy

Syncope: Brugada

Syncope: WPW

Syncope: Prolonged QT



Gastrointestinal

Abdominal Paracentesis



HEENT

Dental

Dental Fracture Repair

Dental Splinting

Nasal

Epistaxis: Introduction

Anterior Epistaxis: Initial Steps, Topical Vasoconstrictor & External Compression

Anterior Epistaxis: Nasal Anesthesia & Anterior Nasal Examination

Anterior Epistaxis: Cautery

Anterior Epistaxis: Nasal Tampon

Anterior Epistaxis: Balloon Device

Posterior Epistaxis: Foley Balloon

Posterior Epistaxis: Balloon Device

Ophthalmology

Introduction to Ophthalmologic Procedures

Visual Acuity Exam

Ophthalmoscope Exam

Slit Lamp Exam

Fluorescein Exam

Retracting and Everting the Eyelid

Foreign Body Removal

Tonometry Exam

 **Lacerations**

Wound Prep
Wounds That Shouldn't Be Closed
Suture Removal
Staple Removal

Non-suturing Techniques

Skin Adhesive Glue
Staples
Skin Tape

Suturing Techniques

Selecting Suture Types
General Suturing Techniques / Instrument Tie
Simple Interrupted
Vertical Mattress
Horizontal Mattress
Deep Dermal
Elliptical Cut with Undermining
Dog Ear Correction
Corner Stitch
Figure 8 Stitch for Hemostasis

**Musculoskeletal****Joint Arthrocentesis**

Arthrocentesis Tips & Tricks
Elbow Arthrocentesis
Knee Arthrocentesis
Ankle Arthrocentesis
Wrist Arthrocentesis
Shoulder Arthrocentesis

Joint Reduction

Shoulder
Elbow
Digit
Ankle
Knee
Hip
Patellar

X-Ray Interpretation

General Radiographic Principles

Femur and Hip

Forearm

Tibia and Fibula

Pelvis

Wrist

Lumbosacral and Thoracic Spine

Cervical Spine

Elbow

Shoulder

Knee

Humerus

Foot

Hand

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

Tungsten: Locking Pliers Technique

String-Wrap Technique: Oxygen Mask Strap

Ring Cutter: Electric/Dremel

Ring Cutter: Manual Cutting Disk



Neurology

Lumbar Puncture
Lumbar Puncture Anatomy



Pulmonary

Chest X-ray Interpretation: Approach to CXRs, Pneumothorax, COPD, & CHF
Chest X-ray Interpretation: Cardiomegaly, Consolidation, Dissection, PE, Effusion, & Free Air
Tube Thoracostomy
Needle Thoracostomy



Soft Tissue

Standard Incision and Drainage
Ingrown Nail Removal
Loop Drainage
Paronychia
Felon
Subungual Hematoma



Ultrasound

Ultrasound Transducer Basics

Biliary

Gallbladder Ultrasound
Biliary: Abnormal Findings

Bladder

Bladder Ultrasound (bladder volume)

Cardiac

Cardiac: Abnormal Findings
Aortic Arch, Suprasternal View
Subcostal View
Parasternal View

FAST

FAST: Abnormal Findings
FAST: Male Pelvis
FAST: Ultrasound Image Optimization
FAST: Right Upper Quadrant
FAST: Female Pelvis
FAST: Left Upper Quadrant

Kidney

Right Kidney Ultrasound

Left Kidney Ultrasound

Renal: Abnormal Findings

Lung

Lung Ultrasound

Lung: Abnormal Findings

Vascular

Abdominal Aorta Ultrasound (female)

IVC Ultrasound