



### **Cardiovascular**

- Cardiopulmonary Arrest
- Tachydysrhythmias
- Bradydysrhythmias
- Acute Coronary Syndromes (non-STEMIs)
- Acute Coronary Syndromes (STEMIs)
- Heart Failure and Cardiomyopathy
- Myocardial and Pericardial Diseases
- Arterial and Venous Disorders
- Hypertension
- Valvular Disorders
- Congenital Heart Disease
- Cardiac Devices



### **Abdomen and Gastrointestinal**

- Esophagus and GI Bleed
- Liver
- Biliary and Pancreas
- Functional/Anatomic Asplenia & Splenomegaly
- Splenomegaly (cont.)
- Infectious Inflammatory Diseases
- Small and Large Bowel
- Rectum and Anus



### **Thoracic Respiratory**

- Upper Airway
- Chest Wall, Pleura, & Mediastinum
- Obstructive and Restrictive Diseases
- Pulmonary Infections
- ARDS and Pulmonary Hypertension
- Pulmonary Embolism



### **Neurology**

- Cranial Nerve Disorders
- Headache

CNS Infections  
Stroke  
Seizure Disorders  
Movement Disorders  
Neuromuscular Disorders  
Hydrocephalus  
Other CNS Conditions



## **Eyes, Ears, Nose & Throat**

Ear  
Nose  
Throat  
**Eye**  
    Superficial Trauma & Infections  
    Deep Trauma/Infections, Chronic Findings



## **Musculoskeletal**

Bony Abnormalities  
Muscle Abnormalities  
Joint Abnormalities: Arthritic  
Joint Abnormalities: Non-Arthritic  
Soft Tissue Infections  
Overuse Syndromes  
**Spine**  
    Compression, Myelitis, & Osteomyelitis  
    Disc Herniation, Sciatica, Inflammatory D/o



## **Dermatology**

Commonly Tested Rashes  
Commonly Tested Rashes Q&A  
Urticaria & Diffuse Erythema  
Purpura, Petechiae, & Bullae  
Infections  
Dermatitis  
Skin Cancers & Derm Potpourri  
Dermatology Review



## **Renal & GU**

Acute Kidney Injury

Urinalysis  
Hemolytic Uremic Syndrome  
Chronic Kidney Disease  
Urinary Tract Infection  
Structural Disorders  
Male Genitourinary Infections  
Male Genital Structural Disorders



## **Obstetrics & Gynecology**

Gynecologic Infectious Disorders and Lesions  
Ovarian and Uterine Disorders  
Other Pregnancy Complications  
Labor and Delivery Complications  
Postpartum Complications  
Cervical and Vaginal Disorders  
Vaginal Bleeding in Pregnancy  
Hypertension in Pregnancy



## **Endocrine, Metabolic & Nutrition**

Acid/Base  
Glucose Metabolism, DKA, & Cerebral Edema  
Type 2 Diabetes, HHS, & Hypoglycemia  
Fluid & Electrolyte  
Nutritional Disorders  
Pituitary & Adrenal  
Thyroid Disorders  
Parathyroid Disorders

### **Electrolyte Emergencies**

Hyperkalemia  
Hypokalemia  
Hyponatremia  
Hypercalcemia  
High/Low Magnesium



## **Hematology**

Oral Anticoagulants  
Blood Transfusion  
**Hemostatic Disorders**

Inherited  
Iatrogenic  
Leukemia, Lymphoma, & Multiple Myeloma

### **Platelet Disorders**

ITP, TTP, HUS, & HIS  
DIC & Diagnostic Approach  
Red Blood Cells & Anemia  
Sickle Cell Anemia & Hematologic Crises



## **Immune System**

Transplant-related Issues  
Hypersensitivity Reactions

### **Immunologic Conditions**

External Clues  
Internal Findings  
Review



## **Infectious Disorders**

STIs, Mycobacteria, & Necrotizing Infections  
Bacterial Diarrhea & Botulism  
Fungal & Parasitic Diseases  
Sepsis, TSS, Syphilis, & Tetanus  
Tick-Borne Diseases

### **Viruses**

EBV, influenza, HSV, & VZV  
HIV, Rabies, & Biologic Weapons



## **Trauma**

Multiple Trauma Resuscitation  
Head Trauma  
Facial Trauma  
Neck and Spine Trauma  
Chest Trauma  
Abdominal Trauma  
Genitourinary Trauma  
Ophthalmologic Trauma  
Soft Tissue Trauma  
Special Populations  
Hand Injuries

Forearm and Elbow Injuries  
Wrist Injuries  
Shoulder and Humerus Injuries  
Knee and Lower Leg Injuries  
Ankle and Foot Injuries  
Pelvis/Hip/Femur Injuries



## **Toxicology**

Analgesics  
Ethanol and Toxic Alcohols  
Anticholinergics  
Anticoagulants  
Anticonvulsants  
Psychotropics  
Antiemetics  
Antimicrobials  
Toxic Gases  
Cardiovascular Drugs  
Heavy Metals  
Household and Industrial Chemicals  
Hypoglycemics and Insulin  
Poisonous Plants  
Drugs of Abuse  
Methemoglobinemia  
Decontamination and Toxidromes  
Cholinergic Agents



## **Psychobehavioral**

Eating Disorders  
Schizophrenia, Somatoform D/o, & Depression  
Bipolar, Anxiety, and Panic Disorders  
PTSD, OCD, Phobias, Personality Disorder  
Delirium vs. Dementia, SUD, & Withdrawal



## **Environmental**

Bites and Envenomations  
Dysbarism  
High-altitude Illness

Cold-Related Illness  
Submersion Incidents  
Heat-Related Illness  
Thermal Injury  
Electrical and Radiation Injuries



## **Ultrasound**

FAST Exam  
Biliary  
AAA - Abdominal Aortic  
Renal  
Cardiac  
Intrauterine Pregnancy  
Ocular



## **Pediatric Emergencies**

Pediatric Overview  
Pediatric Resuscitation  
Neonate and Young Infant Emergencies  
Neonatal Advanced Life Support  
Pediatric Fever  
Pediatric Respiratory Emergencies  
Pediatric Neurologic Emergencies  
Pediatric Endocrine and Metabolic Emergencies  
Pediatric GI Emergencies  
Pediatric GU Emergencies  
Pediatric Hematologic Emergencies  
Pediatric Orthopedics  
Pediatric Dermatology



## **EMS and Disaster Medicine**

The History of EMS  
Transportation, EMTALA, & Advanced Directives  
Termination of Resuscitation, Medical Control  
Disaster Medicine  
Terrorism



## **Procedures**

Thoracotomy & Deep Dive

Cricothyrotomy & Deep Dive  
Lateral Canthotomy & Deep Dive  
Chest Tube Placement & Deep Dive  
Transvenous Pacemaker

MyEMCert

## **MyEMCert**

Intro to MyEMcert Modules

### **Key Advances:**

ACEP Seizure Patients  
ACEP Acute Headache  
AHA ACLS Updates 2018/19  
ACEP Opioids  
AHA PALS 2019  
Adult Patients with Community Acquired PNA  
Practice Advances: HEART Score  
Practice Advances: Stroke  
Practice Advances: Oxygen for MI  
2020 Update on Neonatal Resuscitation  
Practice Advances: HFNC in Respiratory Failure  
Practice Advances: Anticoagulant Reversal  
Demystifying Lactate in the ED  
Pregnancy-Induced Hypertension  
Improving Pediatric Readiness in the ED  
Outpatient Treatment for Pulmonary Embolism  
VL for intubation of Adult Patients in the ED



## **ECG Review**

Common STEMI Patterns  
Subtle-Ts  
STEMI Equivalents  
Pulmonary Embolism  
STEMI Mimics: Pericarditis  
STEMI Mimics: Benign Early Repolarization  
STEMI Mimics: LVH with strain  
Syncope: Hypertrophic Cardiomyopathy  
Syncope: Brugada  
Syncope: WPW  
Syncope: Long QT