European Board Exam in Emergency medicine (EBEEM)
“Curriculum +”

#FOAMed resources for EBEEM preparation

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Section 3.2: SYMPTOMS, SIGNS & SITUATIONS

3.2.1. Pain

Chest/thoracic pain
Quick Summary; Core EM: "Chief Complaint – Chest Pain"
Podcast w/ summary; EM Basic: "Chest pain + notes", 2011
Podcast w/ notes; Core EM: "Chest Pain (Ep.8)", 2015

Abdominal pain/distension
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
Podcast w/ summary; EM Basic: "Abdominal pain", 2011
Podcast w/ notes; Core EM: "Extra-Abdominal Causes of Abdominal Pain (Ep.22)", 2015

Flank pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pain and/or swelling of the extremities
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Headache
Podcast w/ summary; EM Basic: "Headache", 2011

Joint pain and/or swelling
Review; Core EM: “Approach to Traumatic Shoulder Pain”

Scrotal and/or testicular pain and/or swelling
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Back pain
Podcast w/ notes; Core EM: "Killer Back Pain (Ep.39)", 2016
Review; Core EM: “Non-Traumatic Low Back Pain”
Podcast w/ summary; EM Basic: "Back pain", 2011
Podcast w/ notes; Core EM: “Lumbar Radiculopathy”, 2017

Anal pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
Eye pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Ear pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Nose pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Throat pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Dysuria
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Dyspareunia
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Vaginal/vulva pain or testicular pain and/or swelling
Podcast w/ summary; EM Basic: "Testicular Pain", 2011

Neck pain
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

3.2.2. Other Symptoms

Dyspnea
Podcast w/ summary; EM Basic: "Shortness of breath", 2011
Quick Summary; Core EM: "Dyspnea"

Fever/chills
Podcast w/ summary; EM Basic: "Febrile infants", 2011

Palpitations
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Nausea
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pruritus
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Decreased sensation and paresthesias
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Weakness
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

(pre)-Syncope
Podcast w/ summary; EM Basic: "syncope", 2011
Dysphagia

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Coordination difficulties

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Visual disturbances, including loss of vision and double vision

Review; Core EM: “Non-Traumatic Monocular Vision Loss”

Fatigue

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Vaginal discharge

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Polyuria and oligo/anuria

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Vertigo

Podcast w/ summary; EM Basic: "Dizziness", 2011

3.2.3. Abnormal Vital Signs

Bradypnea

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Tachypnea

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Hypotension

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Hypertension

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Bradycardia

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Tachycardia

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Hypothermia

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Hyperthermia
3.2.4 Bleeding (non-traumatic)

Epistaxis

Hematemesis

Hemoptysis

Hematochezia and Melena

Hematuria

Vaginal bleeding (non-pregnant, during pregnancy, postpartum)

3.2.5. Abnormal Physical and Mental Status Findings

Diarrhea

Constipation

Cough
Rash (including petechiae, urticaria)
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Jaundice
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Seizure
Podcast w/ summary; EM Basic: "Seizures", 2013
Podcast w/ summary; EM Basic: "Febrile Seizures", 2014
Podcast w/ notes; Core EM: "ED Management of Seizures (Ep.82)", 2017

Vomiting
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Cognitive failure
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Altered level of consciousness including confusion, depressed level of consciousness and delirium
Podcast w/ summary; EM Basic: "Altered Mental Status (AMS)", 2011
Podcast w/ notes; Core EM: "Wernicke's Encephalopathy (Ep.115)", 2017
Podcast w/ notes; Core EM: "Dementia, Delirium (Ep.29)", 2016

Altered mood
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Altered behaviour
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Agitation and Aggressivity, incl. Delirium
Podcast w/ notes; Core EM: "Dementia, Delirium (Ep.29)", 2016

Paresis and speech disorder
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Red eye
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
3.2.6. Abnormal Blood and Urine Test Results

**Acidemia**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Alkalemia**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Hypoxia**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Hypocapnea**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Hypercapnea**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Anemia**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Thrombocytopenia**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Leukopenia**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Leukocytosis**

Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Hyponatremia**

Podcast w/ notes; Core EM: "Hyponatremia (58)", 2016

**Hypernatremia**
Hypokalemia
Podcast w/ notes; Core EM: "Hypokalemia", 2017
Review; Core EM: “Hypokalemia”

Hyperkalemia
Podcast w/ summary; EM Basic: "Hyperkalemia", 2011
Review; Core EM: “Hyperkalemia”

Hypocalcemia
Review; Core EM: “Hypocalcemia”

Hypercalcemia
Review; Core EM: “Hypercalcemia”

Hypoglycemia
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Hyperglycemia
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Increased INR
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Elevated liver enzymes
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Increased lactate
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Increased creatinine, urea or cystatin C
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Elevated CRP or ESR
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Elevated Troponin
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
3.2.7. Specific Situations

**Intoxication**
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Smoke inhalation**
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Suicidality**
Podcast w/ notes; Core EM: "Suicide Assessment (Ep.28)", 2016

**Self-Injury (would call it self-harm)**
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Transient loss of consciousness**
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Trauma to the head and neck**
Podcast w/ notes; Core EM: "C-Spine Injuries (Ep.36)", 2016

**Facial trauma**
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Crying baby**
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

**Palliative (end of life) care in the ED**
Podcast w/ notes; Core EM: "Grand Rounds: Dying in the ED (feat. Ashley Shreves) (Ep.26)", 2016
Section 3.3: SYNDROMES & DISEASE ENTITIES

3.3.1. Cardiac Arrest

Management of cardiac arrest with shockable rhythm
Podcast w/ notes; Core EM: "VFib and Pulseless VTach (Ep.62)", 2017

Management of cardiac arrest with non-shockable rhythm
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Identification and initial management of reversible causes
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

3.3.2. Upper airway and throat

Foreign body airway obstruction
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Anaphylaxis
Podcast w/ summary; EM Basic: "Anaphylaxis Part 1- Diagnosis and Treatment + notes", 2013
Podcast w/ summary; EM Basic: "Anaphylaxis Part 2- Airway", 2013
Review; Core EM: "Anaphylaxis"
Podcast w/ notes; Core EM: "Anaphylaxis (Ep.52)", 2016

Angioedema
Podcast w/ notes; Core EM: "Angioedema (Ep.107)", 2017
Review; Core EM: "Angioedema"

Herpes stomatitis
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Epiglottitis
Pharyngitis and laryngitis
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Tonsillitis
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Croup and pseudo-croup
Podcast w/ summary: EM Basic: "Croup by Stewart Harsant and Taylor Fischer, PA-Cs", 2017

Tracheitis
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Thermal damage to the upper airway
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Quinsy, in particular retropharyngeal abscess, peritonsillar abscess, Ludwig's angina
Review; Core EM: “Peritonsillar Abscess”

3.3.3. Lung
Asthma, in particular status asthmaticus
Podcast w/ notes; Core EM: "Asthma and COPD (Ep.17)", 2015
Podcast w/ notes; Core EM: "Ventilation in the Intubated Asthmatic (Ep.42)", 2017
Review; Core EM: “Basic Asthma Management”
Review; Core EM: “Life-Threatening Asthma”

Bronchitis
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Bronchiolitis
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Chronic Obstructive Pulmonary Disease (COPD) exacerbation
Podcast w/ summary; EM Basic: "COPD/Shortness of breath", 2011
Podcast w/ summary; EM Basic: "Oxygen in COPD– followup", 2011
Carbon dioxide retention
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pneumonia
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Empyema
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pulmonary Edema
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pneumothorax, in particular tension pneumothorax
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Hemothorax
Review; Core EM: “Traumatic Hemothorax”

Pulmonary contusion
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Lung abscess
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pleural effusion
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Foreign body inhalation
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Pneumomediastinum
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

ARDS
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
Pulmonary fibrosis
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Lung contusion
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

3.3.4. Heart
Pericarditis
Podcast w/ notes; Core EM: "Pericarditis (Ep.65)", 2017
Review; Core EM: “Pericarditis review”

Myocarditis
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Cardiac tamponade
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Heart Failure
Podcast w/ notes; Core EM: "Ac. Pulmonary Edema (Ep.71)", 2017
Review; Core EM: “Acute Pulmonary Edema review”
Review; Core EM: “Congestive Heart Failure review”
Review; Core EM: “Cardiogenic Shock review”

Valvular pathology
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Endocarditis
Review; Core EM: “Infective Endocarditis review”,

Acute Coronary Syndrome-STEMI
Podcast w/ summary; EM Basic: "MI and ACS", 2011
Review; Core EM: “ST Elevation Myocardial Infarction in LBBB”

Acute coronary syndrome-NSTEMI and unstable angina
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Stable angina
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
Podcast w/ notes; Core EM: "Simplified Approach to Tachydysrhythmias (Ep.88)"", 2017
Review; Core EM: “A Simplified Approach to Tachydysrhythmias review”

Sinus Tachycardia
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Atrial fibrillation and flutter
Podcast w/ notes; Core EM: "Cardioversion in Recent Onset AF (Ep.98)”, 2017
Review; Core EM: “Recent-Onset Atrial Fibrillation review”
Podcast w/ notes; Core EM: "Rate Control in Atrial Fibrillation (Ep.64)”, 2017

Ectopic atrial tachycardia
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

AVNRT and AVRT
Podcast w/ notes; Core EM: "AVNRT (Ep.20)”, 2015
Review; Core EM: “Atrioventricular Nodal Reentrant Tachycardia (AVNRT) review”
Podcast w/ notes; Core EM: "Valsalva Maneuver in SVT (Ep.102)”, 2017

Ventricular tachycardia
Review; Core EM: “Ventricular Tachycardia review”

Torsades de pointes
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Atrial fibrillation in the Wolff-Parkinson-White syndrome
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Brugada syndrome
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Long QT syndrome
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Sick sinus syndrome
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Sinus bradycardia
Quick Summary; AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013
AV block
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

Junctional rhythm
Quick Summary: AliEM: "10 Tips for Approaching Abdominal Pain in the Elderly", 2013

3.3.5. Circulation and Vascular
Hypovolemic shock
Cardiogenic shock
Obstructive shock
Distributive shock

Podcast w/ notes; Core EM: "Fluid Responsiveness + Resuscitation (Ep. 75)", 2017
Review; Core EM: "Fluid Resuscitation review"

Reflex syncope
Orthostatic syncope
Cardiovascular syncope
Hypertensive emergencies, including hypertensive crisis, hypertensive encephalopathy

Podcast w/ summary; EM Basic: "Asymptomatic Hypertension + notes", 2014

Arterial insufficiency
Arterial embolization
Aortic dissection
Review; Core EM: “Aortic Dissection review"
Podcast w/ summary; EM Basic: "Aortic Dissection", 2015

Carotid artery dissection
Vasculitis, in particular giant cell arteritis
Ruptured / symptomatic aortic aneurysm, in particular abdominal (AAA)
Review; Core EM: “Abdominal Aortic Aneurysm review”

Deep vein thrombosis
Review; Core EM: “Deep Venous Thrombosis (DVT) review”

Pulmonary embolism
Podcast w/ summary; EM Basic: "PE part 1 + notes", 2014
Thrombophlebitis
Review; Core EM: “Superficial Venous Thrombosis (SVT) review”

Superior vena cava syndrome

3.3.6. Brain

Stroke
Podcast w/ summary; EM Basic: "Stroke and Transient Ischemic Attack (TIA)”, 2011

Transient ischemic attack
Osmotic demyelinisation syndrome
Intracranial hemorrhage
Cerebral sinus thrombosis
Migraine
Cluster headache
Tension headache
Meningitis
Podcast w/ notes; Core EM: "Meningitis (Ep.93)”, 2017

Encephalitis
Brain metastases
Brain abscess
Raised intracranial pressure
Podcast w/ notes; Core EM: "Idiopathic Intracranial Hypertension (Ep.127)”, 2018

Febrile seizure in children
Podcast w/ summary ; EM Basic: "Febrile Seizures”, 2014

Partial complex seizure
Status epilepticus
Podcast w/ notes; Core EM: "ED Management of Seizures (Ep.82)”, 2017

Pseudoseizure
Complication of CNS devices
Subarachnoid haemorrhage
Intracerebral hematoma (ICH)
Podcast w/ notes; Core EM: "Platelet Transfusion in Intracerebral Hemorrhage (Ep.55)”, 2016
Podcast w/ notes; Core EM: "Delayed ICH in Head Trauma Patients on Blood Thinners (Ep.43)”, 2016
Epidural and subdural hematoma  
traumatic ICH and traumatic SAH  
Podcast w/ notes; Core EM: "Traumatic ICH Management (Ep.84)", 2017

Dementia  
Podcast w/ notes; Core EM: "Dementia, Delirium (Ep.29)", 2016

Hydrocephalus  
Commotio cerebri, traumatic brain injury  

3.3.7. Spinal cord and peripheral nervous system  
Myelopathy, spinal cord compression/injury/syndromes  
Spinal epidural abscess  
Cauda equina syndrome  
Radiculopathy, in particular cervical and lumbar  
Mononeuropathy  
Polyneuropathy, in particular Guillain Barré Syndrome  
Myasthenia gravis and myasthenic crisis  
Trigeminal neuralgia

3.3.8. Eye  
Podcast w/ summary; EM Basic: "Eye Complaints + notes", 2013

Conjunctivitis  
Dacrocystitis  
Endophthalmitis  
Uveitis  
Keratitis  
Review; Core EM: “Herpes Keratitis”

Orbital and periorbital cellulitis  
Scleritis and episcleritis  
Vitreous hemorrhage  
Acute glaucoma
Optic neuritis
Herpes zoster ophthalmicus
Foreign Body
Retinal artery and vein occlusion
Corneal abrasions
Retinal injury
 Blow out fracture
Perforating injuries of the globe

3.3.9. Ear and Nose
Otitis media et external

Sinusitis
Podcast w/ notes; Core EM: "Acute Rhinosinusitis (Ep.90)", 2017

Vestibular neuritis
Benign paroxysmal positional vertigo
Menière's disease
Foreign body
Mastoiditis
Eardrum perforation
Auricular hematoma
Nasal septal hematoma

3.3.10. Gastrointestinal
Upper gastrointestinal bleeding, including bleeding oesophageal varices
Podcast w/ notes; Core EM: "Upper GI Bleeding (Ep.72)", 2017

Lower gastrointestinal bleeding
Gastro-esophageal reflux disease
Esophageal rupture
Podcast w/ notes; Core EM: "Boerhaave Syndrome (Ep.66)", 2016

Esophageal spasm
Peptic ulcers, in particular perforated ulcer
Inflammatory bowel disease

Gastritis

Podcast w/ notes; Core EM: "Gastroesophageal Reflux (GERD) (Ep.74)", 2017

Gastroenteritis

Intestinal Ischemia including mesenteric ischemia and ischemic colitis

Appendicitis

Diverticulitis including perforation

Small bowel obstruction (SBO)

Podcast w/ notes; Core EM: "Small bowel obstruction (SBO; Ep.23)", 2015

Review; Core EM: "Small Bowel Obstruction"

Large bowel obstruction

Volvulus

Intussusception

Fecal impaction

Viscus perforation

Hernias, in particular incarcerated hernias

Internal hernia after gastric bypass

Hiatus hernia

Foreign Body

Podcast w/ notes; Core EM: "Button battery ingestion (Ep.116)", 2017

Podcast w/ notes; Core EM: "Esophageal Food Impaction + Peds Appy (Ep.21)", 2015

Anorectal problems

Anal fissure

Hemorrhoids including thrombosed external hemorrhoids

Perianal abscess

Pilonidal abscess

Pyloric stenosis

Hirschsprung's disease

Meckel's diverticulum

Peritonitis

3.3.11. Hepatobiliary and pancreas

Hepatitis including fulminant hepatic failure

Cirrhosis

Ascites
Spontaneous bacterial peritonitis
Hepatic encephalopathy
Podcast w/ notes; Core EM: "Hepatic Encephalopathy (Ep.24)", 2015

Biliary colic
Cholecystitis
Podcast w/ notes; Core EM: "Ac. Cholecystitis (Ep.117)", 2017
Review; Core EM: “Cholangitis”

Cholangitis
Podcast w/ notes; Core EM: "Cholangitis (Ep.118)", 2017
Review; Core EM: “Acute Cholecystitis”

Pancreatitis
Podcast w/ notes; Core EM: "Pancreatitis (Ep.121)", 2017

3.3.12. Urogenital
Podcast w/ notes; Core EM: "Renal + GU Emergencies (Ep.109)", 2017

Cystitis
Pyelonephritis
Nephrolithiasis including septic stone (terminology?)
Podcast w/ notes; Core EM: "Analgesia in Renal Colic (Ep.51)", 2016
Review; Core EM: “Ureteral Colic”

Urinary retention
Hydronephrosis
Renal failure/kidney injury, acute and subacute
Nephrotic syndrome
Ovarian torsion
Podcast w/ notes; Core EM: "Ovarian Pathology (Ep.37)", 2016
Review; Core EM: “Ovarian Torsion”

Ovarian cyst rupture
Testicular torsion
Review; Core EM: “Testicular Torsion”

Epididymitis
Orchitis
Torsion of Morgagni's hydatid
Testicular hematoma
Scrotal hydrocele
Priapism
Paraphimosis

Pelvic inflammatory disease, including metritis and salpingitis and other STDs

Vulvovaginitis
Bartholin gland abscess
Prostatitis
Balanitis
Bladder rupture
Urethral rupture

3.3.13. Obstetrics

Extrauterine pregnancy

HELLP syndrome
Pre-eclampsia and eclampsia

Spontaneous abortion
Abruptio placentae
Placenta previa
Hyperemesis gravidarum
Trauma in pregnancy

Infections in pregnancy

3.3.14. Musculoskeletal

Idiopathic inflammatory myopathies including polymyositis, dermatomyositis
Polymyalgia rheumatica
Lumbago
Fractures
Review; Core EM: “Pelvic Vertical Shear Fractures”
Review; Core EM: “Intertrochanteric Fractures”
Review; Core EM: “Lisfranc Injuries”
Review; Core EM: “Olecranon Fractures”
Review; Core EM: “Distal Radius Fractures”
Review; Core EM: “Scaphoid Fractures”
Review; Core EM: “Calcaneus Fractures”
Review; Core EM: “Proximal Humerus Fracture”
Review; Core EM: “Clavicle Fractures”
Review; Core EM: “Femoral Neck Fractures”
Review; Core EM: “Pediatric Supracondylar Fractures”
Review; Core EM: “Ankle Fractures”
Review; Core EM: “Tibial Plateau Fractures”
Review; Core EM: “Radial Head Fracture”
Review; Core EM: “Open Fractures”

Osteomyelitis
Herniated Disc
Costochondritis
Discitis

Arthritis (in particular septic, crystal)
Podcast w/ summary; EM Basic: “Monoarticular Arthritis”, 2013
Review; Core EM: “Septic Arthritis”
Review; Core EM: “Pediatric Septic Hip”

Osteoarthritis
Bursitis
Cellulitis
Review; Core EM: “Cellulitis”

Meniscal injury
Review; Core EM: “Anterior Cruciate Ligament (ACL) Injuries”

Tendon injury
Podcast w/ notes; Core EM: “Flexor Tenosynovitis (Ep.126)”, 2017

Ligament injury
Review; Core EM: “Acromioclavicular (AC) Joint Injuries”
Compartment syndrome
Review; Core EM: “Compartment Syndrome”

Dislocations (in particular hip, shoulder)
Review; Core EM: “Shoulder Dislocation”
Review; Core EM: “Hip Dislocation”
Podcast w/ notes; Core EM: “True Knee Dislocations (Ep.122)”, 2017
Review; Core EM: “True Knee + Patellar Dislocations”
Review; Core EM: “Elbow Dislocation”
Podcast w/ notes; Core EM: “TMJ Dislocation (Ep.47)”, 2016
Review; Core EM: “Subtalar Dislocation”
Review; Core EM: “Lunate Dislocation”

Crush syndrome
Rhabdomyolysis
Flail chest
Open chest
Limb, hand and feet injury
Podcast w/ notes; Core EM: “The Lisfranc Injury (Ep.76)”, 2017
Review; Core EM: “Finger Injuries”

3.3.15. Skin and soft tissue
Stevens-Johnson syndrome and toxic epidermal necrolysis
Toxic shock syndrome (Streptococcal and Staphylococcal)
Necrotizing fasciitis and necrotizing myositis
Abscess
Erysipelas and Cellulitis
Podcast w/ notes; Core EM: “Initial Antibiotic Choice in Cellulitis (Ep.105)”, 2017
Review; Core EM: “Cellulitis”

Bites and stings
Podcast w/ notes; Core EM: “Bites and stings (Ep.120)”, 2017
Podcast w/ notes; Core EM: “Mammal Bites (Ep.94)”, 2017

Mastitis
Exanthemata (viral, drug-induced)
Meningococcemia
Lymphangitis
3.3.16. Hematology, Coagulation and Oncologic emergencies

Podcast w/ summary; EM Basic: "Heme Onc Part 1- Oncology Emergencies", 2015
Podcast w/ summary; EM Basic: "Heme Onc Part 2- Hematology Emergencies", 2015

Neutropenic fever
Disseminated intravascular coagulation
Drug-induced bleeding (anticoagulants, antiplatelet agents, fibrinolytics)
Idiopathic thrombocytopenic purpura
Hemophilias
Von Willebrand's disease
Hemolytic anemia, including the microangiopathic hemolytic anemias
Thrombotic thrombocytopenic purpura
Hemolytic uremic syndrome
Sickle cell disease and sickle cell crisis
Podcast w/ summary; EM Basic: "Sickle Cell Anemia by Dr. Jared Walker", 2017

Transfusion reactions
Tumor lysis syndrome

Methemoglobinemia
Podcast w/ notes; Core EM: "Methemoglobinemia (Ep.97)", 2017
Review; Core EM: "Methemoglobinemia"

Leukemias
Review; Core EM: “Emergency Management of Blast Crisis”

Lymphomas

3.3.17. Metabolism, Endocrinology, Auto-Immune

Metabolic acidosis with normal anion gap
Metabolic acidosis with elevated anion gap
Metabolic alkalosis
Respiratory acidosis
Respiratory alkalosis

Acute hyponatremia including hyponatremic encephalopathy

Podcast w/ summary; EM Basic: "Hyponatremia", 2011
Review; Core EM: "Severe Hyponatremia"

Chronic hyponatremia

SIADH

Diabetic ketoacidosis (DKA)

Podcast w/ summary; EM Basic: "Diabetic Ketoacidosis (DKA)", 2011
Podcast w/ notes; Core EM: "Aggressive Resuscitation of Diabetic Ketoacidosis (Ep.60)", 2016
Review; Core EM: "Diabetic Ketoacidosis (DKA)"

Hyperosmolar hyperglycemic syndrome

Review; Core EM: "Hyperglycemic Hyperosmolar Syndrome"

Adrenal insufficiency and adrenal crisis

Podcast w/ notes; Core EM: "Adrenal Crises (Ep.15)", 2015
Review; Core EM: "Adrenal Crisis"

Hyperthyroidism, thyrotoxicosis and thyroid storm

Podcast w/ summary; EM Basic: "Thyroid Emergencies by Dr. Patrick Ng", 2017
Podcast w/ notes; Core EM: "Severe Decompensated Hyperthyroidism (Ep.59)", 2016
Review; Core EM: "Thyroid Storm"

Hypothyroidism and myxedema coma

Porphyria including acute porphyria crisis

Familial Mediterranean Fever

Food allergy

Systemic lupus erythematosus

Sarcoidosis

Diabetes mellitus

Review; Core EM: "Pharmacology of Insulins"

Diabetes insipidus

3.3.18. Infectious diseases

Sepsis and septic shock

Podcast w/ summary; EM Basic: "Sepsis 3.0", 2017
Review; Core EM: "Surviving Sepsis 2017 Guidelines Overview"
Tuberculosis
HIV and AIDS
Lyme disease and neuroborreliosis
Cholera
Herpes Zoster and other herpetic infections
Podcast w/ notes; Core EM: "Herpes Zoster (Ep.112)", 2017
Podcast w/ notes; Core EM: "Non-Genital Herpetic Infections (Ep.41)", 2017
Review; Core EM: "Herpes Zoster"

Multi-resistant bacteria
Rabies
Tetanus
Measles
Podcast w/ summary; EM Basic: "Measles", 2015

Influenza
Tick borne illnesses
Podcast w/ notes; Core EM: "Tick Borne Illnesses (Ep.44)", 2016

Botulism
Malaria
Dental infections

3.3.19. Poisoning
Sympathomimetic toxidrome
Review; Core EM: "Methamphetamine Intoxication"

Sedative / hypnotic toxidrome
Review; Core EM: "Parenteral Benzodiazepines"

Opioid toxidrome
Podcast w/ summary; EM Basic: "Opioids Part 1 by Dr. Sheyna Gifford", 2017
Podcast w/ summary; EM Basic: "Opioids Part 2 by Dr Sheyna Gifford", 2017

Cholinergic toxidrome
Anticholinergic toxidrome
Podcast w/ notes; Core EM: "Anticholinergic Poisoning (Ep.48)", 2016

Serotonin syndrome
Neuroleptic malignant syndrome
Membrane stabilizing effects on ECG; TCA, local aesthetics

Podcast w/ notes; Core EM: "Local Anesthetic Systemic Toxicity (LAST) (Ep.95)", 2017
Review: Core EM: “Tricyclic Antidepressant Toxicity”

Paracetamol intoxication
Podcast w/ summary; EM Basic: "Acetaminophen overdose”, 2014

NSAID intoxication
Beta-blocker intoxication
Review; Core EM: “Hyperinsulinemia Euglycemia Therapy (HIET) for Beta Blocker and Calcium Channel Blocker Toxicity”

Calcium channel antagonist intoxication
Digoxin intoxication
Warfarin intoxication
NOAC intoxication
Acetylsalicylic acid intoxication
Podcast w/ summary; EM Basic: "Salicylate Overdose”, 2014

Ethanol intoxication and withdrawal
Podcast w/ notes; Core EM: “Evaluation of the Alcohol Intoxicated Patient (Ep.114)”, 2017
Podcast w/ notes; Core EM: "Phenobarbital in Alcohol Withdrawal (Ep.57)”, 2016
Podcast w/ notes; Core EM: "Alcohol Withdrawal (Ep.49)”, 2016

Ethylene glycol intoxication
Methanol intoxication
Corrosive substance intoxication
Gamma-hydroxybutyric acid (GHB) intoxication
Amphetamine intoxication
Cocaine intoxication
Smoke inhalation, in particular carbon monoxide and cyanide poisoning
Podcast w/ notes; Core EM: “Carbon Monoxide Poisoning (Ep.96)”, 2017

Interactions between drugs / substances and other side effects
Podcast w/ notes; Core EM: “Metformin-Associated Lactic Acidosis (Ep.124)”, 2017

Heavy-metal poisoning
Mushroom poisoning
Organophosphate intoxication
Scambroid food poisoning
3.3.20. Exposure to External Factors

Burns
Podcast w/ notes; Core EM: "Major Burns (Ep. 101)", 2017

Frostbite
Chemical- and radiation accidents
Toxic and irritant gases
Explosion - barotrauma

Electricity and Lightning
Podcast w/ notes; Core EM: "Electrical and Lightning Injuries (Ep. 1)", 2015

Drowning
Decompression sickness
Missed essential therapy (e.g. dialysis)
Podcast w/ notes; Core EM: "Dialysis Emergencies (Ep. 92)", 2017

Faulty medication doses

3.3.21. Psychiatry
Podcast w/ summary; EM Basic: "Psychiatric Emergencies Part 1 with Dr. Les Zun", 2014
Podcast w/ summary; EM Basic: "Psychiatric Emergencies Part 2 with Dr. Les Zun", 2014

Deliberate self-harm
Depression
Anxiety including panic attacks
Substance Abuse
Conversion disorders
Acute psychosis, delusional disorder
Severe eating disorders / anorexia and bulimia
Crisis Reaction
Psychosocial problems

3.3.22. Conditions specific to children
Podcast w/ notes; Core EM: "ALTE (Ep. 16)", 2015
Review; Core EM: "Apparent Life-Threatening Event (ALTE) review"
Review; Core EM: "Slipped Capital Femoral Epiphysis (SCFE)"
Section 3.4: 
PROCEDURES & SKILLS

3.4.1 Cardiopulmonary Resuscitation

Chest compressions and ventilation
Podcast w/ notes; Core EM: "Intubation in In-Hospital Cardiac Arrest (Ep.108)", 2017

Defibrillation
Podcast w/ notes; Core EM: "VFib and Pulseless VTach (Ep.62)", 2017
Review; Core EM: “Procedure: Proper Defibrillator Pad Placement + Dual Sequential Defibrillation”

Use of medications
Use of POCUS
Open chest CPR
Resuscitative thoracotomy
Perimortem C-section
Review; Core EM: “Peri-Mortem C-Section”

3.4.2 Airway management
Podcast + summary; EM Basic: "Airway basic introduction", 2011
Podcast w/ ; EMCrit: "Podcast 70 – Airway Management with Rich Levitan", 2011
Podcast w/ ; EM Basic: "Airway Update Screencast", 2014
Podcast w/ notes; Core EM: "The Traumatized Airway (Ep.79)", 2017

Fiberscopic examination of the upper airway
Simple airway opening maneuvers
Oropharyngeal and nasopharyngeal airways
Laryngeal mask airway
Endotracheal intubation
Podcast w/ notes; Core EM: "Preoxygenation (Ep.54)", 2016
Review; Core EM: “Procedure: Bed Up Head Elevated Positioning for Airway Management”

Rapid sequence intubation (i.e. knowledge of relevant drugs)
Podcast w/ notes; Core EM: "Advanced RSI Topics (Ep.110)", 2017
Review; Core EM: “Rapid Sequence Intubation Medications review”
Review; Core EM: “Post-Intubation Sedation and Analgesia review”
Cricothyrotomy
Needle cricothyrotomy and jet insufflation
Replacement of blocked or dislodged tracheostomy

3.4.3 Breathing
Assessment of breathing and ventilation
Oxygen therapy
Interpretation of blood gas analysis
Interpretation of pulse oximetry
Interpretation of capnography
Bag-valve-mask ventilation
Non-invasive ventilation

Podcast w/ summary; EM Basic: "Non-invasive Ventilation", 2011
Review; Core EM: “Procedure: Setting Up Non-Invasive Ventilation”

Invasive ventilation techniques

Podcast w/ notes; Core EM: "Ventilation in the Intubated Asthmatic (Ep.42)", 2017

Setting up a (transport) ventilator
Needle decompression / finger thoracostomy
Chest tube insertion
Thoracocentesis

3.4.4 Circulation
Administration of fluids including blood products
Cardioversion
Transcutaneous pacing
Emergency pericardiocentesis

Review; Core EM: “Ultrasound Guided Pericardiocentesis”

Peripheral venous access

Review; Core EM: “Procedure: How to Start a Peripheral IV”

Central venous catheterization
Intraosseous access
Arterial access
Ultrasound guided peripheral/central vascular access
Arterial puncture for blood sampling
Systemic 12-lead EKG interpretation
Use of push-dose vasopressors and inotropes

3.4.5 Disability
Neurological Examination
Evaluation of consciousness including the Glasgow Coma Scale
Lumbar puncture and CSF analysis

3.4.6 Exposure
Log roll, transfer and spine immobilisation
Measuring and monitoring of body temperature
Cooling techniques (evaporative cooling, ice water or slush immersion)
Warming techniques
Monitoring heat stroke patients
Treatment and prevention of hyper- and hypothermia

3.4.7 Analgesia and Procedural Sedation
Assessment of the level of pain and sedation
Monitor vital signs and potential side effects during pain management
Provide procedural sedation and analgesia including conscious sedation (including testing of life support equipment)
Use of appropriate local, topical and regional anaesthesia techniques—preferably ultrasound guided

3.4.8. Point-Of-Care Ultrasound (PoCUS)
Cardiac views - focused cardiac ultrasound (subxiphoid, parasternal long axis, parasternal short axis, apical four chamber): identification of pericardial fluid, tamponade, dilated right ventricle, decreased contractility/left ventricular function, asystole
Inferior vena cava: measurement of size and collapse upon inspiration
Perihepatic and perisplenic views: identification of intraabdominal fluid, hydronephrosis, pleural fluid, pulmonary consolidation
Suprapubic views (sagittal and transverse): identification of intraabdominal fluid, distended urinary bladder, intrauterine pregnancy
Abdominal aorta: identification of abdominal aortic aneurysm, possible dissection flap
Lung: identification of pneumothorax, interstitial syndromes, consolidations, correct endotracheal tube placement
Hepatobiliary: identification of gallstones, cholecystitis, dilated common bile duct, pericholic fluid
Proximal femoral vein and popliteal vein - two-point limited compression ultrasound: identification of deep venous thrombosis
Ocular: identification of globe rupture, intraocular foreign body, retinal detachment, elevated ICP, eye movement, vitreous hemorrhage, pupillary reflex
Soft-tissue: identification of foreign body, fluid collection/abscess, cellulitis
Ultrasound-guided nerve blocks

3.4.9. Musculoskeletal

Podcast w/ summary; EM Basic: "Trauma Resuscitation Part 1- the evaluation + notes", 2011
Podcast w/ summary; EM Basic: "Trauma Resuscitation Part 2- Interventions + notes", 2011
Podcast w/ notes; Core EM: "Penetrating Chest Trauma", 2017
Joint examination
Aseptic joint aspiration and fluid analysis
Fracture reduction and immobilisation
Reduction of joint dislocation
Podcast w/ notes; Core EM: "TMJ Dislocation (Ep.47)", 2016
Review; Core EM: "Temporomandibular Joint (TMJ) Dislocation"

Splinting (plasters, braces, slings, tapes and other bandages)
Management of compartment syndrome
Application of pelvic binder
Review; Core EM: "Procedure: How to Apply a Pelvic Binder"

3.4.10. Wound management
Peripheral neurovascular examination
Local and regional anaesthesia for the treatment of minor wounds
Wound cleaning
Principles of wound healing and closure
Incision and drainage (simple, superficial abscess, paronychia, subungal haematoma)
Review; Core EM: "Procedure: Incision and Drainage of Cutaneous Abscesses"

Nail bed repair
Aseptic techniques
Treatment of lacerations and soft tissue injuries (basic and advanced skin suturing techniques, alternative skin closure, e.g. tissue adhesives, staples)
Review; Core EM: "Suture Materials"

Wound exploration, cleaning, irrigation, debridement and wound closure
Superficial open wound dressing
Burn first aid and debridement of burns, primary burn dressings
Soft tissue ultrasound (presence/absence of foreign bodies)
Fasciotomy
Escharotomy

3.4.11. Ear-Nose-Throat
Anterior rhinoscopy using nasal speculum
Nasal cautery
Insertion of nasal pack (anterior and posterior packing)
Inspection of oropharynx and larynx
Otoscopy
Dix-Hallpike and Epley's Manoeuvre
Head impulse test and test of skew
Removal of nasal, aural and laryngeal foreign body if airway is compromised
Insertion and replacement of tracheostomy tube
Aspiration or incision/drainage of peritonsillar abscess

Review; Core EM: “Procedure: Drainage of a Peritonsillar Abscess”

Reduction of Temporo-mandibular (TMJ) joint dislocation
Podcast w/ notes; Core EM: "TMJ Dislocation (Ep.47)", 2016
Review; Core EM: “Procedure: TMJ Dislocation Reduction Techniques”

3.4.12 Ophthalmic
Eye examination including direct and indirect ophthalmoscopy
Removal of foreign body (add: that do not lie in the optical axis?)
Lateral canthotomy
Eye irrigation
Application of eye pad or shield

3.4.13 Oral and Maxillofacial
Joint reduction: temporomandibular joint (TMJ) reduction
Podcast w/ notes; Core EM: "TMJ Dislocation (Ep.47)", 2016
Enlocation of avulsed/extruded/intruded/laterally injured tooth
Temporary stabilisation of injured tooth
Haemostatis following dental extraction
Podcast w/ notes; Core EM: "Dental Emergencies (Ep.40)", 2017

3.4.14 Gastrointestinal
Insertion of nasogastric or orogastric tube
Podcast w/ notes; Core EM: "Gastric Lavage (Ep.50)", 2016
Review; Core EM: “Orogastric Lavage”

Abdominal hernia reduction
Proctoscopy
Emergency replacement of dislodged or non-functioning (blocked) gastrostomy tube
3.4.15 Genitourinary
Insertion of indwelling urethral catheter
Suprapubic cystostomy
Testicular torsion reduction
Evaluation of patency of urethral catheter

3.4.16 Obstetric and Gynaecological
Vaginal examination using speculum
Assessment of fetal heart rate
Emergency Delivery-normal delivery
Podcast w/ notes; Core EM: "Challenging Deliveries (Ep.85)", 2017

Emergency delivery-shoulder dystocia
Review; Core EM: "Shoulder Dystocia"

Emergency delivery-breech
Assessment of the sexual assault victim (regardless of gender)
Removal of products of conception from cervical os
Check for presence/absence of foetal heart beat, eg foetal doppler, ultrasound
Perimortem c-section

3.4.17 Psychiatric
Mental status examination
Podcast w/ summary; EM Basic: "Psychiatric Medical Screening", 2011

3.4.18 Radiology
Indications, contraindications and risks with contrast studies
Podcast w/ notes; Core EM: "Journal Update – AKI + IV Contrast", 2017

Chest X-ray: identification of pneumothorax, pleural fluid, consolidation, pulmonary edema, widened mediastinum
Cervical spine X-ray: identification of fracture, alignment, pre-vertebral soft tissue swelling
Podcast w/ notes; Core EM: "C-Spine Injuries (Ep.36)", 2016
Podcast w/ notes; Core EM: "Pediatric C-spine Injuries (Ep.30)", 2016
Pelvic X-ray: identification of fracture
Abdominal X-ray: identification of free air, gas/fluid levels, distended bowels
Extremities X-ray: identification of fractures, dislocations, joint effusions

Review; Core EM: “Ankle Stress Views: Why, When + What”

Thoracolumbar spine X-ray: identification of fractures, alignment
Orthopantomogram X-ray: identification of fractures, dislocations
Facial X-ray: identification of fractures, dislocations

Podcast w/ notes; Core EM: “Reading C-Spine CTs (Ep.32)”, 2016

CT head: identification of life-threatening cause of abnormal neurology, e.g. haemorrhage, raised ICP, mass effect, skull fracture, hydrocephalus
CT facial bones/orbits (fracture, orbital entrapment)
CT thorax (fracture, pneumothorax, haemothorax, infiltrative process, effusion or consolidation, major vessel aneurysm, dissection, rupture or occlusion)
CT spine (fracture, disc prolapse)

Review; Core EM: “The ABCS of Reading C-Spine CTs”

Podcast w/ notes; Core EM: “C-Spine Injuries (Ep.36)”, 2016

Review; Core EM: “C-Spine Injuries + CT Interpretation”

CT kidneys-urinary tract-bladder (calculus, signs of obstruction)
CT abdomen/pelvis (e.g. organ perforation/laceration, mass lesion, inflammatory process, major vessel dissection or rupture)
CT other bones (NOF/pelvis/ankle/foot – fractures, mass lesion, disrupted anatomy)
CT aorta/ CT pulmonary angiogram (massive pulmonary embolism, aortic dissection)

3.4.19 Transport
Telecommunication and telemedicine procedures
Specific aspects of monitoring and treatment during transportation (intra- and interhospital)

Podcast w/ summary; EM Basic: “Theprehospital episode”, 2011

3.5 Special aspects of EM
3.5.1 Clinical teaching

Podcast w/ summary; EM Basic: “How to give a good ED patient presentation”, 2011

Podcast w/ summary; EM Basic: “Big Picture Advice to New EM Interns”, 2017
3.5.2 Metacognition

Emergency Medicine Updates: "Screencast: How to Think Like an Emergency Physician", 2010

3.5.3 Documentation and pertinent legal issues

Podcast w/ summary; EM Basic: "Documentation", 2014