## Lectures repeated in first six weeks of each year not including Year-Directed Conferences (YDCs)

Week	Title for R1s	Topics	Title for R2s & R3s
	Orientation to Orientation		
001	Overview of the Three-Year Curriculum	Lecture groupings First six weeks of every year	
049		Model of clinical practice of EM Concentrated topics in EM	
097		Series on interests in EM	
		Case presentations	
		Morbidity & mortality conference	
		Faculty learning cases Resident interesting cases	
		R3 toxicology cases	
		Other educational experiences	
	Bedside Ultrasonography [part 1] -	Curriculum introduction	
	Introduction and IV Access	R1 orientation R2 rotation	
		Equipment	
		Physics	
		Planes	
		Modes	
		Artifacts Basic control panel	
		Basic features	
		Advanced features	
		Transducers	
		Soft-tissue applications	
		Abscess detection/drainage Foreign-body localization/removal	
		Vascular-access applications	
		Central	
		Peripheral	•
	Bedside Ultrasonography [part 2] – Focused Assessment for Trauma	Decision-making Hemodynamic compromise	
	Pocused Assessment for Trauma	Hemodynamic stability	
		Applications	
		Hemorrhage	
		Free intracavitary fluid Pneumothorax	
		Trauma in pregnancy	
		Estimated gestational age	
		Fetal cardiac activity/rate	
		Placental abruption	
	Bedside Ultrasonography [part 3] –	Uterine rupture Decision-making	
	Hepatobiliary and Renal	Abdominal, flank, and back pain	
		Ascites	
		Jaundice	
		Applications   Peritoneum	
1		Kidney	
		Gallbladder	
		Liver	
	Bedside Ultrasonography [part 4] –	Decision-making	
	Aorta and Surgical Abdomen	Hemodynamic compromise Abdominal, flank, and back pain	
		Fever	
		Vomiting, and diarrhea	
		Applications	
		Abdominal aortic aneurysm	

	Rules of the Road  How to Teach  Approach to the Undifferentiated Complaint	Intraperitoneal hemorrhage Gastrointestinal Inflammation Appendicitis Diverticulitis Obstruction Perforation Welcome back Introductions Reorientation Administrative procedures Didactic Clinical Small-group discussions Manual skills Initial approach and stabilization Clinical assessment	Rules of the Road  How to Teach  Approach to the Undifferentiated Complaint
		Clinical reasoning Diagnostic adjuncts Expanded differential diagnoses Principles of management	
	ED Triage	Purpose of triage Daily versus exceptional settings Gestalt versus formal process Five-level triage system Derivation Validation Application to unique populations	ED Triage
002 050 098	Bedside Ultrasonography [part 5] – Urogenital	Decision-making Vaginal bleeding Pelvic pain or mass Testicular pain Applications First-trimester pregnancy Intrauterine pregnancy Ectopic pregnancy Pregnancy loss Second/third-trimester pregnancy Fetal cardiac activity/rate Placental attachment/position Premature labor Fetal position Ovarian cysts Torsion Adnexal Testicular Tubo-ovarian abscess Urinary retention	
	Bedside Ultrasonography [part 6] – Newer Applications	Cardiac applications Cardiac activity Aortic dissection Pericardial effusion Myocardial ischemia Pulmonary embolism Vascular applications Arterial occlusion Deep venous thrombosis Other	
	Risk Management Patient Satisfaction		
	Approach to Shock	General considerations Common pathophysiology	Approach to Shock

	Interface with EMS Personnel Introduction to Laboratory Use	Stress response Compensatory mechanisms Irreversibility Unique considerations Hypovolemic shock Cardiogenic shock Septic shock Obstructive shock Patient evaluation	
		Ruling out <i>versus</i> ruling in Impact of diagnostic testing Patient/consultant expectations ED efficiency/throughput False results Cost Common laboratory tests	
		Complete blood count Basic metabolic profile Arterial blood gas analysis Organ-function testing Organ-injury testing Coagulation studies Urinalysis Fluid cultures	
		Protocol review General Specialty referral centers Examination Difficult ECGs (even years)	EMS Protocol Review  ECG or Radiology Cases
003 051 099	Overview of Evidence-Based Medicine	Difficult x-rays (odd years)  Principles of EBM Clinical decision-making Hierarchy of evidence EBM approach Using the medical literature Framing a question Searching for an answer Sources of evidence Clinical application	(alternating years)
	Multiculturalism and Care Delivery	Disparities    Access    Outcomes Cultural competence    Definition    Perceptions    Evolution of expectations    Beliefs, values, and experiences Improvement    Individual    Institutional Resources    Facility    Community	
	Managing Personal & Professional Stress	Major stressors in EM Consequences Burn-out Impairment Coping techniques Physical fitness Social relationships Relaxation and renewal	

		Observation of the state of the	T
		Sleep hygiene	
		Resources	
		Residency	
		Community	
	Approach to Life-Threatening	General considerations	Approach to Life-Threatening
	Abdominal Emergencies	Abdominal & GI disorders	Abdominal Emergencies
		Extraabdominal disorders	
		ED presentations	
		Ruptured ectopic pregnancy	
		Ruptured/leaking AAA	
		Intestinal obstruction	
		Perforated viscous	
		Mesenteric ischemia	
		Ascending cholangitis	
		Hemorrhagic pancreatitis	
		Diarrhea	
		Diagnostic adjuncts	
		Bedside testing	
		Laboratory testing	
		Imaging	
		ED interventions	
		Continued ED care	
	Introduction to Disaster Medicine	Definitions of the term "disaster"	
		Disaster management	
		Emergency medicine interfaces	
		Disaster medicine	
		Evolution from military medicine	
		Unique body of knowledge	
		The "Disaster Cycle"	
		Preparedness	
		Warning	
		Event	
		Response	
		Recovery	
		Systems-oriented approach	
		Components	
		Perspectives	
		Overview of mitigation strategies	
	Introduction to Mass-Gathering	Characteristics of mass gatherings	
	Medicine	General	
	Iviedicine	Medical	
		Planning & operational issues	
		On-scene care	
		Evacuation	
		Security	
		Support of Dayton's US Air & Trade	
		Show	Aires Lateres Francisco
		Initial approach	Airway Interventions Review
		Assessment	
		Indications for interventions	
		Techniques	
		Basic	
		Advanced	
		Pharmacological adjuncts	
		Confirmation of patency	
		Ventilation	
		Manual	
		Mechanical	
004	Critically appraised topic (CAT)	CAT	
	writing and presenting	Purpose	
052	3	Format	
		Presentations	

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		Verbal Written	
	Approach to Life-Threatening Thoracic Emergencies	General considerations Thoracic disorders Extra-thoracic disorders ED presentations Acute coronary syndromes Aortic dissection Pulmonary embolism Pneumonia Pneumothorax Nontraumatic cardiac tamponade Esophageal rupture Diaphragmatic hernia Diagnostic adjuncts Bedside testing Laboratory testing Imaging ED interventions Continued ED care	Approach to Life-Threatening Thoracic Emergencies
100	Approach to Life-Threatening Hypertensive Emergencies	General considerations ED presentations Hypertensive encephalopathy Stroke syndromes Subarachnoid hemorrhage Pulmonary edema Myocardial ischemia/injury Aortic dissection Renal insufficiency Empirical management Emergencies Urgencies Neither	Approach to Life-Threatening Hypertensive Emergencies
	Approach to Life-Threatening Obstetrical Emergencies	General considerations Diagnosis of pregnancy Two patients Diagnosis and management Appendicitis Pyelonephritis Venous thromboembolism Preeclampsia and eclampsia Ectopic pregnancy Placenta previa Abruptio placenta Abdominopelvic trauma Perimortem cesaeraian section	Approach to Life-Threatening Obstetrical Emergencies
005 053	Approach to Life-Threatening Neurological Emergencies	General considerations ED presentations Diagnostic adjuncts Bedside testing Laboratory testing Imaging	Approach to Life-Threatening Neurological Emergencies
101	Approach to Non-Bronchospastic Respiratory Failure	ED interventions Continued ED care General considerations Respiratory disorders Nonrespiratory disorders ED presentations Mechanical respiratory failure Metabolic respiratory failure Diagnostic adjuncts Bedside testing	Approach to Non-Bronchospastic Respiratory Failure

		Laboratory testing	
		Imaging	
		ED interventions	
		Prevention of intubation	
		Endotracheal intubation	
		Post-intubation ventilation	
	Approach to Propohognatio	Continued ED care General considerations	Approach to Propohospactic
	Approach to Bronchospastic Respiratory Failure	Asthma	Approach to Bronchospastic Respiratory Failure
	1 Tespiratory Failure	COPD	respiratory railure
		ED presentations	
		Bronchospasm	
		Bronchospastic respiratory failure	
		Diagnostic adjuncts	
		Bedside testing	
		Laboratory testing	
		Imaging	
		ED interventions	
		Prevention of intubation	
		Endotracheal intubation	
		Post-intubation ventilation	
	Introduction to Pediatric Emergency	Continued ED care ED use and outcomes	Introduction to Pediatric Emergency
	Medicine	Community hospitals	Medicine
	Wedicine	Children's hospitals	Wiedenie
		Triage considerations	
		Unique body of knowledge	
		Social issues	
		Consent	
		Advocacy	
		Range of size	
		Patient considerations	
		Management considerations	
		Evolving physiology Mental	
		Physical	
		Pediatric specific problems	
		EMS considerations	
		Short courses	
006		APLS	
000		PALS	
054		Specialty	
		Fellowships	
102	Approach to the Febrile Child	Board certification General considerations	Approach to the Febrile Child
	Approach to the Februe Child	Approach by age group	Approach to the replie offile
		Neonatal period	
		< 2 months of age	
		2-3 months of age	
		3–6 months of age	
		6–36 months of age	
		Impact of vaccination programs	
	Approach to Sight-Threatening	General considerations	Approach to Sight-Threatening
	Emergencies	ED triage Key questions	Emergencies
		Levels and interventions	
		History	
		Physical examination	
		Diagnostic adjuncts	
		Bedside testing	
		Laboratory testing	
		Imaging	

	Diagnoses by categories	
	Critical	
	Emergent	
	Urgent	
	Algorithmic approach	
·	Empirical management	
	Nontraumatic	
	Traumatic	
	Dispositions	