The Core Content Task Force II created and endorsed the 2001 Model of the Clinical Practice of Emergency Medicine (EM Model) as published in the June 2001 Annals of Emergency Medicine and Academic Emergency Medicine.

The 2016 EM Model Review Task Force conducted the seventh review of the EM Model. Their work is built on the original 2001 EM Model and the subsequent four revisions. The 2016 EM Model is published online in the March 2017 *Journal of Emergency Medicine*.

All changes that resulted from the 2016 EM Model Review Task Force are summarized in Figure 1.

Preamble of the Core Content Task Force II, Adapted for the 2016 EM Model

In 1975, the American College of Emergency Physicians and the University Association for Emergency Medicine (now the Society for Academic Emergency Medicine; SAEM) conducted a practice analysis of the emerging field of Emergency Medicine. This work resulted in the development of the Core Content of Emergency Medicine, a listing of common conditions, symptoms, and diseases seen and evaluated in emergency departments. The Core Content listing was subsequently revised four times, expanding from 5 to 20 pages. However, none of these revisions had the benefit of empirical analysis of the developing specialty but relied solely upon expert opinion.

2016 EM Model Review Task Force

Francis L. Counselman, M.D., Chair Kavita Babu, M.D. Mary Ann Edens, M.D., MPH Diane Gorgas, M.D. Cherri Hobgood, M.D. Catherine A. Marco, M.D. Eric Katz, M.D. Kevin Rodgers, M.D. Leonard Stallings, M.D. Michael C. Wadman, M.D.

2007 EM Model Review Task Force

Harold A. Thomas, M.D., Chair Michael S. Beeson, M.D Louis S. Binder, M.D. Patrick H. Brunett, M.D. Merle A. Carter, M.D. Carey D. Chisholm, M.D. Douglas L. McGee, D.O. Debra G. Perina, M.D. Michael J. Tocci, M.D.

Advisory Panel to the Task Force

William J. Koenig, M.D., Chair James J. Augustine, M.D. William P. Burdick, M.D. Willma V. Henderson, M.D. Linda L. Lawrence, M.D. David B. Levy, D.O. Jane McCall, M.D. Michael A. Parnell, M.D. Kent T. Shoji, M.D.

2013 EM Model Review Task Force

Francis L. Counselman, M.D., Chair Marc A Borenstein, M.D. Carey D. Chisholm, M.D. Michael L. Epter, D.O. Sorabh Khandelwal, M.D. Chadd K. Kraus, D.O., MPH Samuel D. Luber, M.D., MPH Catherine A. Marco, M.D. Susan B. Promes, M.D. Gillian Schmitz, M.D.

2005 EM Model Review Task Force

Harold A. Thomas, M.D., Chair Louis S. Binder, M.D. Dane M. Chapman, M.D., Ph.D. David A. Kramer, M.D. Joseph LaMantia, M.D. Debra G. Perina, M.D. Philip H. Shayne, M.D. David P. Sklar, M.D. Camie J. Sorensen, M.D., M.P.H.

2011 EM Model Review Task Force

Debra G. Perina, M.D., Chair Patrick Brunett, M.D David A. Caro, M.D. Douglas M. Char, M.D. Carey D. Chisholm, M.D. Francis L. Counselman, M.D. Jonathan Heidt, M.D. Samuel Keim, M.D., MS O. John Ma, M.D.

2003 EM Model Review Task Force

Robert S. Hockberger, M.D., Chair Louis S. Binder, M.D. Carey D. Chisholm, M.D. Jeremy T. Cushman, M.D. Stephen R. Hayden, M.D. David P. Sklar, M.D. Susan A. Stern, M.D. Robert W. Strauss, M.D. Harold A. Thomas, M.D. Diana R. Viravec, M.D.

2009 EM Model Review Task Force

Debra G. Perina, M.D., Chair Michael S. Beeson, M.D Douglas M. Char, M.D. Francis L. Counselman, M.D. Samuel Keim, M.D., MS Douglas L. McGee, D.O. Carlo Rosen, M.D. Peter Sokolove, M.D. Steve Tantama, M.D.

Core Content Task Force II

Robert S. Hockberger, M.D., Chair Louis S. Binder, M.D. Mylissa A. Graber, M.D. Gwendolyn L. Hoffman, M.D. Debra G. Perina, M.D. Sandra M. Schneider, M.D. David P. Sklar, M.D. Robert W. Strauss, M.D. Diana R. Viravec, M.D. Following the 1997 revision of the Core Content listing, the contributing organizations felt that the list had become complex and unwieldy, and subsequently agreed to address this issue by commissioning a task force to re-evaluate the Core Content listing and the process for revising the list. As part of its final set of recommendations, the Core Content Task Force recommended that the specialty undertake a practice analysis of the clinical practice of Emergency Medicine. Results of a practice analysis would provide an empirical foundation for content experts to develop a core document that would represent the needs of the specialty.

Following the completion of its mission, the Core Content Task Force recommended commissioning another task force that would be charged with the oversight of a practice analysis of the specialty - Core Content Task Force II.

The practice analysis relied upon both empirical data and the advice of several expert panels and resulted in *The Model of the Clinical Practice of Emergency Medicine* (EM Model). The EM Model resulted from the need for a more integrated and representative presentation of the Core Content of Emergency Medicine. It was created through the collaboration of six organizations:

- American Board of Emergency Medicine (ABEM)
- American College of Emergency Physicians (ACEP)
- Council of Emergency Medicine Residency Directors (CORD)
- Emergency Medicine Residents' Association (EMRA)
- Residency Review Committee for Emergency Medicine (RRC-EM)
- Society for Academic Emergency Medicine (SAEM)

As requested by Core Content Task Force II, the six collaborating organizations reviewed the 2001 EM Model in 2002-2003 and developed a small list of proposed changes to the document. The changes were reviewed and considered by 10 representatives from the organizations, i.e., the 2003 EM Model Review Task Force. The Task Force's recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The work of the Task Force was published in the June 2005 *Annals of Emergency Medicine* and *Academic Emergency Medicine*.

The six collaborating organizations reviewed the 2002-2003 EM Model in 2005 and developed a small list of proposed changes to the document. The changes were reviewed and considered by nine representatives from the organizations, i.e., the 2005 EM Model Review Task Force. The Task Force's recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The work of the Task Force was published in the October 2006 *Academic Emergency Medicine* and December 2006 *Annals of Emergency Medicine*.

The next regular review of the EM Model occurred in 2007. The 2007 EM Model Review Task Force recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The work of the Task Force was published in the August 2008 *Academic Emergency Medicine* and online-only in the August 2008 *Annals of Emergency Medicine*.

The fourth review of the EM Model occurred in 2009. The 2009 EM Model Review Task Force recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The work of the Task Force was published in the January 2011 *Academic Emergency Medicine* and online-only in *Annals of Emergency Medicine*.

The fifth review of the EM Model occurred in 2011. The 2011 EM Model Review Task Force recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The work of the Task Force was published online-only in the July 2012 *Academic Emergency Medicine*.

The sixth review of the EM Model occurred in 2013, with the addition of a seventh collaborating organization, the American Academy of Emergency Medicine (AAEM). The 2013 EM Model Review Task Force recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The work of the Task Force was published online-only in the May 2014 *Academic Emergency Medicine*.

In 2014, the collaborating organizations made the decision to review the EM Model on a three-year review cycle. The seventh review of the EM Model occurred in 2016. The 2016 EM Model Review Task Force recommendations were approved by the collaborating organizations and are incorporated into this document. The full 2016 EM Model was published online in the March 2017 *Journal of Emergency Medicine*.

There are three components to the EM Model: 1) an assessment of patient acuity; 2) a description of the tasks that must be performed to provide appropriate emergency medical care; and 3) a listing of medical knowledge, patient care, and procedural skills. Together these three components describe the clinical practice of Emergency Medicine (EM) and differentiate it from the clinical practice of other specialties. The EM Model represents essential information and skills necessary for the clinical practice of EM by board-certified emergency physicians.

Patients often present to the emergency department with signs and symptoms rather than a known disease or disorder. Therefore, an emergency physician's approach to patient care begins with the recognition of patterns in the patient's presentation that point to a specific diagnosis or diagnoses. Pattern recognition is both the hallmark and cornerstone of the clinical practice of EM, guiding the diagnostic tests and therapeutic interventions during the entire patient encounter.

The Accreditation Council for Graduate Medical Education (ACGME) has implemented the ACGME Outcome Project to assure that physicians are appropriately trained in the knowledge and skills of their specialties. The ACGME derived six general (core) competencies thought to be essential for any practicing physician: patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems-based practice. The six general competencies are an integral part of the practice of Emergency Medicine and are embedded into the EM Model. To incorporate these competencies into the specialty of EM, an Emergency Medicine Competency Task Force demonstrated how these competencies are integrated into the EM Model.

The EM Model is designed for use as the core document for the specialty. It provides the foundation for developing future medical school and residency curricula, certification examination specifications, continuing education objectives, research agendas, residency program review requirements, and other documents necessary for the functional operation of the specialty. In conjunction with the EM Model, these six core competencies construct a framework for evaluation of physician performance and curriculum design to further refine and improve the education and training of competent emergency physicians.

The 2016 review of the EM Model resulted in significant changes and clarifications, including a comprehensive review and revision of category 17, Toxicologic Disorders. This review emphasized integrating "clinical intuition" in the treatment of toxicologic emergencies into the document, focusing on what the practicing emergency physician needs to know. In addition, the Task Force attempted to bring the EM Model into alignment with the ABEM Knowledge, Skills, and Abilities (KSAs) document. The complete updated 2016 EM Model can be found on the websites of each of the seven collaborating organizations.

¹ Accreditation Council for Graduate Medical Education (ACGME). ACGME Core Competencies. (ACGME Outcome Project Website). Available at http://www.acgme.org/outcome/comp/compCPRL.asp

² Chapman DM, Hayden S, Sanders AB, et al. Integrating the Accreditation Council for Graduate Medical Education core competencies into The Model of the Clinical Practice of Emergency Medicine. Ann Emerg Med. 2004;43:756-769, and Acad Emerg Med. 2004;11:674-685.

Figure 1

Summary of 2016 EM Model Review Task Force Changes

Listed below are the changes approved by the seven collaborating organizations.

Changes to Table 1. Matrix of physician tasks by patient acuity

- Changed Disposition to Transitions of Care
- Added Patient-centered Communication Skills
- Added Prognosis

Changes to Table 3. Physician Task Definitions

Changed definition of Performance of focused history and physical examination to read as follows:

Performance of focused history and physical examination: Effectively interpret and evaluate the patient's symptoms and history; identify pertinent risk factors in the patient's history; provide a focused evaluation; interpret the patient's appearance, vital signs and condition; recognize pertinent physical findings; perform techniques required for conducting the exam.

• Changed definition of Pharmacotherapy to read as follows:

Pharmacotherapy: Select, prescribe, and be aware of adverse effects of appropriate pharmaceutical agents based upon relevant considerations such as intended effect, financial considerations, possible adverse effects, patient preferences, institutional policies, and clinical guidelines; and monitor and intervene in the event of adverse effects in the ED.

Changed title of Disposition to Transitions of care and edited definition to read as follows:

Arrange for patient admission, discharge (including follow-up plan), observation, or transfer and transitions of care as appropriate, and communicate these arrangements effectively with patients, family, and involved healthcare team members.

Added the following new physician task:

Patient-centered communication skills: Establish rapport with and demonstrate empathy toward patients and their families; listen effectively to patients and their families.

Added the following new physician task:

Prognosis: Forecast the likely outcome of a medical disease or traumatic condition.

Changes to Table 4. Medical Knowledge, Patient Care, and Procedural Skills

Location	Description of Change		
1.1	Changed Abnormal Vital Sign Physiology to Abnormal Vital Signs		
1.1.5	Changed Apnea to Bradypnea/Apnea - added Emergent		
1.2.8	Added Chronic pain - Lower		
1.2.9	Added Extremity pain - Critical, Emergent, Lower		
1.3.57	Added Toxidromes - Critical, Emergent, Lower		
1.3.58	Added Sudden unexpected infant death (SUID) - Critical		
2.2.2.3	Changed from Toxic effects of caustic to Toxic effects of caustic agents		
2.3.3.2.1	Deleted Acute		
2.3.3.2.2	Deleted Chronic		
2.3.5	Added Hepatic encephalopathy - Critical, Emergent		
2.6.2	Added Abdominal compartment syndrome - Critical, Emergent		
2.7.6	Added Gastroparesis - Emergent, Lower		
2.8.2.2	Added Gluten enteropathy - Lower		
2.9.2.5	Added Neutropenic enterocolitis/Typhlitis - Critical, Emergent		
2.12	Added Post-surgical Complications		
2.12.1	Added Bariatric surgery - Critical, Emergent, Lower		
2.12.2	Added Ostomy - Emergent, Lower		
3.1.1	Deleted Sudden unexpected infant death (SUID)		
3.1.2	Deleted Pulseless electrical activity		
3.2.1	Added Tetralogy of Fallot spells - Critical, Emergent		
3.2.2	Added Patent ductus arteriosus-dependent congenital heart anomalies - Critical, Emergent		
3.3.1.2	Changed Aortic to Dissection		
3.3.1.2.1	Added Aortic - Critical, Emergent, Lower		
3.3.1.2.2	Added Non-aortic - Critical, Emergent, Lower		
3.4.1.3	Add Pulseless electrical activity - Critical		
3.11	Added Cardiovascular Devices		
3.11.1	Added Pacemaker/Automatic implantable cardioverter-defibrillator (AICD) - Critical, Emergent, Lower		
3.11.2	Added Left ventricular assist device (LVAD) - Critical, Emergent, Lower		
4.2.3	Added Diabetic foot ulcers - Emergent, Lower		

4.4.4.3	Changed Herpes simplex to Herpetic infections
4.4.4.4	Deleted Herpes zoster
4.5.7	Added Drug eruptions - Emergent, Lower
5.4.1.4	Added Insulin pump malfunction - Critical, Emergent, Lower
5.5.4	Added Malnutrition - Emergent, Lower
6.1.1.2	Changed Arachnida to Arachnids
6.5	Added Critical, Emergent, Lower
6.5.1	Deleted Cold water immersion
6.5.2	Deleted Near drowning
6.6.1.1	Deleted Heat exhaustion
6.6.1.2	Deleted Heat stroke
7.2.1.1	Deleted Blepharitis
7.2.1.5	Deleted Dacryocystitis
7.2.1.6	Added Disorders of the eyelids - Lower
7.2.1.8	Deleted Inflammation disorders of the eyelids
7.2.1.8.1	Deleted Chalazion
7.2.1.8.2	Deleted Hordeolum
7.2.4.1.2	Changed Postseptal to Septal/Orbital
7.2.4.2	Changed Purulent Endophthalmitis to Endophthalmitis
7.4.5.1	Deleted Gingivostomatitis
7.4.6.4	Added Tracheostomy complications - Critical, Emergent, Lower
8.2.3.2	Added Idiopathic thrombocytopenic purpura - Critical, Emergent, Lower
8.2.3.3	Added Thrombotic thrombocytopenic purpura - Critical, Emergent
8.5.1.2.1	Changed Sickle cell disease to Sickle cell anemia
8.7	Added Oncologic Emergencies - Critical, Emergent, Lower
9.1.2	Changed Reiter's syndrome to Reactive Arthritis
9.4.1	Changed Kawasaki syndrome to Mucocutaneous lymph node syndrome (Kawasaki syndrome)
9.5	Added Medication-induced Immunosuppression - Critical, Emergent
9.5.1	Added Chemotherapeutic agents - Critical, Emergent
9.5.2	Added Steroids - Critical, Emergent
9.5.3	Added Targeted immune modulators - Critical, Emergent
10.1.7.2	Deleted Systemic inflammatory response syndrome (SIRS)

10.5.1	Changed Ehrlichiosis to Anaplasmosis (Ehrlichiosis)
10.6.3	Changed Hantavirus to Arbovirus
10.7	Changed Emerging Infections, Pandemics and Drug Resistance to Emerging Infections/ Pandemics - Added Lower
10.8	Added Drug Resistance - Critical, Emergent, Lower
11.1.4	Added Atypical fractures - Emergent, Lower
11.1.4.1	Added Osteoporotic - Emergent, Lower
11.1.4.2	Added Tumor-related - Emergent, Lower
11.1.4.3	Added Congenital disorders - Emergent, Lower
11.2.3	Added Radiculopathy - Emergent, Lower
11.2.4	Added Spinal stenosis - Emergent, Lower
11.2.5	Added Cervical pain - Critical, Emergent, Lower
11.2.6	Added Thoracic pain - Critical, Emergent, Lower
11.2.7	Added Lumbosacral pain - Critical, Emergent, Lower
11.2.7.3	Deleted Sprains/Strains
11.2.7.3	Added Sciatica - Emergent, Lower
11.3.1.6	Added Reactive arthritis - Emergent, Lower
11.3.4	Added Synovitis - Emergent, Lower
11.5.4	Changed Tendonitis to Tendinopathy
11.5.5	Added Stress reaction fracture - Emergent, Lower
11.6.5	Changed Synovitis/Tenosynovitis to Tenosynovitis
12.8.3	Changed Pseudotumor cerebri to Idiopathic intracranial hypertension
12.8.4	Added Cerebral venous sinus thrombosis - Critical, Emergent, Lower
12.8.5	Added Posterior reversible encephalopathy syndrome (PRES) - Critical, Emergent
12.9.1	Added Epileptiform - Critical, Emergent, Lower
12.9.1.3.1	Deleted Nonconvulsive
12.9.1.4	Added Nonconvulsive - Critical, Emergent
12.9.1.5	Added Drug-induced - Critical, Emergent
12.9.2	Added Nonepileptiform - Lower
12.14	Added Delirium - Emergent
12.14.1	Added Excited delirium syndrome - Critical, Emergent
13.1.5.1	Changed Dysfunctional bleeding to Abnormal bleeding
13.4.2	Added Pre-existing medical problems - Critical, Emergent, Lower
1	•

14.1	Changed Addictive Behavior to Substance Use Disorders
14.1.1	Changed Alcohol dependence to Alcohol use disorder
14.1.2	Deleted Drug dependence
14.1.2	Added Illicit drug use - Critical, Emergent, Lower
14.1.3	Deleted Eating disorders
14.1.3	Added Prescription drug use - Critical, Emergent, Lower
14.1.3.1	Added Drug diversion - Lower
14.1.4	Deleted Substance abuse
14.1.4	Added Tobacco use disorder - Lower
14.1.5	Deleted Tobacco dependence
14.1.5	Added Withdrawal syndromes - Critical, Emergent, Lower
14.5.2	Deleted Delirium
14.5.4	Deleted Intoxication and/or withdrawal
14.5.4.1	Deleted Alcohol
14.5.4.2	Deleted Hallucinogens
14.5.4.3	Deleted Opioids
14.5.4.4	Deleted Sedatives/Hypnotics/Anxiolytics
14.5.4.5	Deleted Sympathomimetics and cocaine
14.5.4.6	Deleted Anticholinergic
14.6.1.1	Changed Child, intimate partner, elder to Child
14.6.1.2	Added Intimate partner - Critical, Emergent, Lower
14.6.1.3	Added Elder - Critical, Emergent, Lower
14.6.5	Added Human trafficking - Emergent, Lower
15.4.3	Added Asymptomatic bacteriuria - Lower
16.1.2	Changed Obstruction to Obstruction/Foreign body
16.1.3	Deleted Tracheostomy/Complications
16.3	Changed Noncardiogenic Pulmonary Edema to Acute Respiratory Distress Syndrome
17.0	This category underwent revision and extensive reordering. The changes are too numerous to document using this format.
18.1.3.6	Added Nail injuries - Lower
18.1.4.6	Changed Zygomatic arch to Zygomaticomaxillary complex
18.1.6.1.1	Added Concussion - Emergent, Lower
18.1.6.1.2	Added Intracranial hemorrhage - Critical, Emergent

18.1.9.3.1	Deleted Carotid artery
18.1.9.3.2	Deleted Jugular vein
18.1.12.4	Added Apophyseal avulsion - Lower
18.1.14.8.2.1	Deleted Achilles tendon
18.1.14.8.2.2	Deleted Patellar tendon
18.2.2	Changed Perimortem C-section to Resuscitative hysterotomy
18.3.2	Added Falls - Critical, Emergent, Lower
18.3.3	Added Motor vehicle collision - Critical, Emergent, Lower
18.3.4	Added Assault - Critical, Emergent, Lower
19.2.4.1	Added Therapeutic hypothermia (or targeted temperature management)
19.2.8	Changed Intraosseous infusion to Intraosseous line placement
19.3.3	Changed Procedural sedation and analgesia to Procedural sedation
19.3.4	Added Analgesia
19.5	Added Ultrasound
19.5.1	Added Diagnostic ultrasound
19.5.2	Added Procedural ultrasound
19.6.3	Deleted Ultrasound
19.6.3.1	Deleted Diagnostic
19.6.3.2	Deleted Procedural
20.1.2.5	Changed Multicultural approach to ED patient to Cultural competency
20.3.1.3	Added Healthcare disparities
20.3.2.5	Added Stewardship of resources
20.4.3.4	Added Patient Satisfaction
20.4.4.1	Changed End-of-life and palliative care/Advance directives to End-of-life and palliative care
20.4.4.1.1	Added Advance directives
20.4.4.1.2	Added Coordination with hospice
20.4.4.1.3	Added Organ donation
20.4.4.2.1	Added Activities of daily living/functional assessment
20.4.5.3	Changed Confidentiality and HIPAA to Confidentiality and privacy
20.4.5.7	Added Good Samaritan emergency care
20.4.6.4	Added Error disclosure
20.4.6.5	Added Root cause analysis

Table 1. Matrix of physician tasks by patient acuity

	Patient Acuity			
Physician Tasks	Critical	Emergent	Lower Acuity	
Prehospital care Emergency stabilization Performance of focused history and physical examination Modifying factors Professional issues Legal issues Diagnostic studies Diagnosis Therapeutic interventions Pharmacotherapy Observation and reassessment Consultation Transitions of Care Prevention and education Documentation Multiple patient care Team management Mass casualty/Disaster management Patient -centered communication skills Prognosis				

Table 2. Patient acuity definitions

Critical	Emergent	Lower Acuity	
Patient presents with symptoms of a life-threatening illness or injury with a high probability of mortality if immediate intervention is not begun to prevent further airway, respiratory, hemodynamic, and/or neurologic instability.	Patient presents with symptoms of an illness or injury that may progress in severity or result in complications with a high probability for morbidity if treatment is not begun quickly.	Patient presents with symptoms of an illness or injury that have a low probability of progression to more serious disease or development of complications.	

Table 3. Physician task definitions

Prehospital care	Participate actively in prehospital care; provide direct patient care or on-line or off-line medical direction or interact with prehospital medical providers; assimilate information from prehospital care into the assessment and management of the patient.
Emergency stabilization	Conduct primary assessment and take appropriate steps to stabilize and treat patients.
Performance of focused history and physical examination	Effectively interpret and evaluate the patient's symptoms and history; identify pertinent risk factors in the patient's history; provide a focused evaluation; interpret the patient's appearance, vital signs and condition; recognize pertinent physical findings; perform techniques required for conducting the exam.
Modifying factors	Recognize age, gender, ethnicity, barriers to communication, socioeconomic status, underlying disease, and other factors that may affect patient management.
Professional issues	Understand and apply principles of professionalism and ethics pertinent to patient management.
Legal issues	Understand and apply legal concepts pertinent to the practice of EM.
Diagnostic studies	Select and perform the most appropriate diagnostic studies and interpret the results, e.g., electrocardiogram, emergency ultrasound, radiographic and laboratory tests.
Diagnosis	Develop a differential diagnosis and establish the most likely diagnoses in light of the history, physical, interventions, and test results.
Therapeutic interventions	Perform procedures and nonpharmacologic therapies, and counsel.
Pharmacotherapy	Select, prescribe, and be aware of adverse effects of appropriate pharmaceutical agents based upon relevant considerations such as intended effect, financial considerations, possible adverse effects, patient preferences, institutional policies, and clinical guidelines; and monitor and intervene in the event of adverse effects in the ED.
Observation and reassessment	Evaluate and re-evaluate the effectiveness of a patient's treatment or therapy, including addressing complications and potential errors; monitor, observe, manage, and maintain the stability of one or more patients who are at different stages in their work-ups.
Consultation	Collaborate with physicians and other professionals to help guide optimal management of patients.
Transitions of care	Arrange for patient admission, discharge (including follow-up plan), observation, or transfer and transitions of care as appropriate, and communicate these arrangements effectively with patients, family, and involved healthcare team members.
Prevention and education	Apply epidemiologic information to patients at risk; conduct patient education; select appropriate disease and injury prevention techniques.
Documentation	Communicate patient care information in a concise and appropriate manner that facilitates quality care and coding.
Multiple patient care	Prioritize and implement the evaluation and management of multiple patients in the emergency department, including handling interruptions and task-switching, in order to provide optimal patient care.
Team management	Coordinate, educate, or supervise members of the patient management team and utilize appropriate hospital resources.

Mass casualty/ Disaster management	Understand and apply the principles of disaster and mass casualty management including preparedness, triage, mitigation, response, and recovery.
Patient-centered communication skills	Establish rapport with and demonstrate empathy toward patients and their families; listen effectively to patients and their families.
Prognosis	Forecast the likely outcome of a medical disease or traumatic condition.

MEDICAL KNOWLEDGE, PATIENT CARE, AND PROCEDURAL SKILLS

As originally developed, the third dimension of the EM Model was called the Listing of Conditions and Components. The listing contained the fundamental conditions for which patients presented to emergency departments, and was based on data collected by the National Center for Health Statistics at the Centers for Disease Control and Prevention (CDC) during 1995-1996. The CDC data were collected from 40,000 emergency department records statistically representative of 90.3 million emergency department visits in metropolitan and non-metropolitan short-stay or general hospitals in all 50 states and the District of Columbia. Frequency of occurrence was a primary factor in determining inclusion in the Listing of Conditions and Components. Frequency of occurrence, however, was not the sole determinant of inclusion, nor was the number of entries pertaining to a single topic representative of importance. The final list was developed by several expert panels of practicing emergency physicians based on three factors: 1) frequency of occurrence; 2) critical nature of patient presentation; and 3) other components of EM practice.

The Listing of Conditions and Components also contained two appendices. Appendix 1 outlined the diagnostic and/or therapeutic procedures and tests considered essential to the clinical practice of Emergency Medicine. Appendix 2 listed the other essential components and core competencies of EM practice.

With each Task Force review, the Listing of Conditions and Components has evolved to maintain consistency with the current clinical practice of EM. In 2011, it was determined that the contents of the two appendices represented core components of EM knowledge, which, when combined with the Listing of Conditions and Components, encompassed the universe of knowledge that all practicing emergency physicians should possess. Consequently, the appendices were incorporated into the body of the document and the entire section was renamed Medical Knowledge, Patient Care, and Procedural Skills (Table 4). This change strengthened the inherent link between the EM Model and the ACGME six core competencies.

NOTE: The listing of Medical Knowledge, Patient Care, and Procedural Skills is not intended to be comprehensive. It is intended to be representative of the most frequent conditions seen, those with the most serious implications for patients presenting to the emergency department, and the core knowledge and skills required to provide safe and effective patient care.

Table 4. Medical Knowledge, Patient Care, and Procedural Skills

1.0 SIGNS, SYMPTOMS, AND PRESENTATIONS

			Critical	Emergent	Lower Acuity
1.1		mal Vital Signs			
	1.1.1	Hypothermia	X	X	X
		Fever	X	X	X
		Bradycardia	X	X	X
		Tachycardia	X	X	
		Bradypnea/Apnea	X	X	
	1.1.6	Tachypnea	X	X	
	1.1.7	Hypoxia	X	X	
	1.1.8	Hypotension	X	X	
	1.1.9	Hypertension	X	X	X
1.2	Pain				
	1.2.1	Pain (unspecified)	X	X	X
	1.2.2	Headache (See 12.3)	X	X	X
	1.2.3	Eye pain		X	X
	1.2.4	Chest pain	X	X	X
	1.2.5	Abdominal pain	X	X	X
	1.2.6	Pelvic pain	X	X	X
	1.2.7	Back pain	X	X	X
	1.2.8	Chronic pain			X
	1.2.9	Extremity pain	X	X	X
1.3	Gener	al			
		Altered mental status	X	X	X
	1.3.2	Anuria		X	
	1.3.3	Anxiety			X
	1.3.4	Ascites		X	X
	1.3.5	Ataxia		X	X
	1.3.6	Auditory disturbances			X
		Bleeding	X	X	X
		Congestion/Rhinorrhea			X
		Constipation			X
) Cough		X	X
		Crying/Fussiness		X	X
		2 Cyanosis	X		
		B Dehydration	X	X	
		Diarrhea		X	X
	1.3.15	5 Dysmenorrhea			X
		5 Dysphagia		X	X
		7 Dysuria			X
		B Edema		X	X
		Failure to thrive		X	X
) Fatigue/Malaise		X	X
		Feeding problems			X
		2 Hematemesis	X	X	
		3 Hematuria		X	X
		Hemoptysis	X	X	
		1 2			

1.3.25 Hiccup			X
1.3.26 Jaundice		X	
1.3.27 Joint swelling		X	X
1.3.28 Lethargy	X	X	X
1.3.29 Lightheadedness/Dizziness		X	X
1.3.30 Limp		X	X
1.3.31 Lymphadenopathy			X
1.3.32 Mechanical and indwelling devices,			
complications	X	X	X
1.3.33 Nausea/Vomiting		X	X
1.3.34 Occupational exposure		X	X
1.3.35 Palpitations	X	X	X
1.3.36 Paralysis	X	X	
1.3.37 Paresthesia/Dysesthesia		X	X
1.3.38 Poisoning	X	X	X
1.3.39 Pruritus		X	X
1.3.40 Rash	X	X	X
1.3.41 Rectal bleeding	X	X	X
1.3.42 Shock	X		
1.3.43 Shortness of breath	X	X	
1.3.44 Sore throat		X	X
1.3.45 Stridor	X	X	
1.3.46 Syncope	X	X	X
1.3.47 Tinnitus			X
1.3.48 Tremor		X	X
1.3.49 Urinary incontinence			X
1.3.50 Urinary retention		X	
1.3.51 Vaginal bleeding	X	X	X
1.3.52 Vaginal discharge			X
1.3.53 Vertigo		X	X
1.3.54 Visual disturbances	X	X	X
1.3.55 Weakness		X	X
1.3.56 Wheezing	X	X	
1.3.57 Toxidromes	X	X	X
1.3.58 Sudden unexpected infant death (SUID)	X		

2.6 **Peritoneum**

2.0 ABDOMINAL AND GASTROINTESTINAL DISORDERS

2.1	4 h J a :	nal Wall		Critical	Emergent	Lower Acuity
2.1	2.1.1	nal Wall Hernias			X	X
2.2	Esophag	gus				
	2.2.1	Infectious d	lisorders			
		2.2.1.1	Candida (See 4.4.2.1, 7.4.7)		X	X
		2.2.1.2	Viral esophagitis		X	X
	2.2.2	Inflammator	1 0			
			Esophagitis		X	X
		2.2.2.2	Gastroesophageal reflux (GER	(D)		X
		2.2.2.3	Toxic effects of caustic agents			
			2.2.2.3.1 Acid	X	X	
			2.2.2.3.2 Alkali	X	X	
	2.2.3	Motor abno		11	11	
	2.2.3	2.2.3.1	Spasms			X
	2.2.4	Structural d				71
	2.2.1	2.2.4.1	Boerhaave's syndrome	X	X	
			Diverticula	71	X	X
			Foreign body		X	71
			Hernias		X	X
			Mallory-Weiss syndrome	X	X	Λ
		2.2.4.6	Stricture and stenosis	Λ	X	X
		2.2.4.7		X	X	Λ
		2.2.4.7	Tracheoesophageal fistula Varices	X	X	
	225		varices	Λ	X	X
	2.2.5	Tumors			Λ	Λ
2.3	Liver					
	2.3.1	Cirrhosis			X	X
		2.3.1.1	Alcoholic		X	X
		2.3.1.2	Biliary obstructive		X	
			Drug-induced		X	X
	2.3.2	Hepatorenal		X	X	
	2.3.3	Infectious d			X	X
		2.3.3.1	Abscess		X	
		2.3.3.2	Hepatitis			
	2.3.4	Tumors	r		X	X
	2.3.5		ephalopathy	X	X	
2.4	Call Dia	dder and Bil	liany Tuast			
2.4	2.4.1	Cholangitis		X	X	
	2.4.1	Cholecystiti		Λ	X	
	2.4.2		sis/Choledocholithiasis		X	X
			sis/Choledochonunasis		X	X
	2.4.4	Tumors			Λ	Λ
2.5	Pancrea			***	**	
	2.5.1	Pancreatitis		X	X	*7
	2.5.2	Tumors			X	X

	2.6.1 2.6.2	•	us bacterial peritonitis compartment syndrome	X X	X X	
2.7	Stomach		1. 1			37
	2.7.1 2.7.2	Infectious d				X
	2.1.2	2.7.2.1	ory disorders Gastritis		X	X
	2.7.3	Peptic ulcer			X	X
	2.7.3	2.7.3.1	Hemorrhage	X	X	71
		2.7.3.2	Perforation	X	X	
	2.7.4	Structural d				
		2.7.4.1	Congenital hypertrophic pyloric			
			stenosis		X	
		2.7.4.2	Foreign body		X	X
	2.7.5	Tumors			X	X
	2.7.6	Gastropares	sis		X	X
2.8	Small Bo	wel				
	2.8.1	Infectious d	lisorders		X	X
	2.8.2	Inflammato	ory disorders			
		2.8.2.1	Regional enteritis/Crohn's disease		X	X
		2.8.2.2	Gluten enteropathy			X
	2.8.3	Motor abno				
		2.8.3.1	Obstruction		X	
	204	2.8.3.2	Paralytic ileus		X	
	2.8.4	Structural d		v		
		2.8.4.1 2.8.4.2	Aortoenteric fistula	X	X	X
		2.8.4.3	Congenital anomalies Intestinal malabsorption		X	X
		2.8.4.4	Meckel's diverticulum		X	X
	2.8.5	Tumors	Wiceker's diverticulari		X	X
	2.8.6	Vascular in	sufficiency	X	X	
2.9	Large Bo	wal				
2.9	_	Infectious d	lisorders			
	2.7.1	2.9.1.1	Antibiotic-associated		X	
		2.9.1.2	Bacterial		X	X
		2.9.1.3	Parasitic		X	X
		2.9.1.4	Viral		X	X
	2.9.2		ory disorders			
		2.9.2.1	Appendicitis		X	
		2.9.2.2	Necrotizing enterocolitis (NEC)	X	X	
		2.9.2.3	Radiation colitis		X	
		2.9.2.4	Ulcerative colitis	**	X	X
	202	2.9.2.5	Neutropenic enterocolitis/Typhlitis	X	X	
	2.9.3	Motor abno			X	v
		2.9.3.1 2.9.3.2	Hirschsprung's disease Irritable bowel		Λ	X X
		2.9.3.2	Obstruction		X	Λ
	2.9.4	Structural d			11	
		2.9.4.1	Congenital anomalies		X	X
		2.9.4.2	Diverticula		X	X
		2.9.4.3	Intussusception	X	X	

	2.9.5	2.9.4.4 Tumors	Volvulus	X	X X	X
2.10	Rectum a	and Anus				
	2.10.1	Infectious of	disorders			
		2.10.1.1	Perianal/Anal abscess		X	X
		2.10.1.2	Perirectal abscess		X	
		2.10.1.3	Pilonidal cyst and abscess		X	X
	2.10.2	Inflammato	ory disorders			
		2.10.2.1	Proctitis			X
	2.10.3	Structural d	lisorders			
		2.10.3.1	Anal fissure			X
		2.10.3.2	Anal fistula		X	X
		2.10.3.3	Congenital anomalies			X
		2.10.3.4	Foreign body		X	X
		2.10.3.5	Hemorrhoids			X
		2.10.3.6	Rectal prolapse		X	
	2.10.4	Tumors	1 1		X	X
2.11	Spleen					
	2.11.1	Asplenism			X	X
	2.11.2	Splenomeg	alv			X
	2.11.3		sufficiency/Infarction	X	X	X
2.12	Post-surg	gical Compl	lications			
	2.12.1	Bariatric su		X	X	X
	2.12.2	Ostomy	01		X	X

3.0 CARDIOVASCULAR DISORDERS

			Critical	Emergent	Lower Acuity
3.1	Cardiop	ulmonary Arrest	X		
3.2	Congeni System	tal Abnormalities of the Cardiovascular	X	X	X
	3.2.1	Tetralogy of Fallot spells	X	X	Λ
	3.2.2	Patent ductus arteriosus-dependent congenita		71	
		heart anomalies	X	X	
3.3	Disorder	rs of Circulation			
	3.3.1	Arterial			
		3.3.1.1 Aneurysm	X	X	X
		3.3.1.2 Dissection	X		
		3.3.1.2.1 Aortic	X	X	X
		3.3.1.2.2 Non-aortic	X	X	X
		3.3.1.3 Thromboembolism	X	X	
	3.3.2	Venous			
		3.3.2.1 Thromboembolism (See 16.6.2)	X	X	
3.4	Disturba	nnces of Cardiac Rhythm			
	3.4.1	Cardiac dysrhythmias	X	X	X
		3.4.1.1 Ventricular	X	X	
		3.4.1.2 Supraventricular	X	X	X
		3.4.1.3 Pulseless electrical activity	X		
	3.4.2	Conduction disorders	X	X	X
3.5	Diseases	of the Myocardium, Acquired			
	3.5.1	Cardiac failure	X	X	
		3.5.1.1 Cor pulmonale	X	X	
		3.5.1.2 High output	X	X	
		3.5.1.3 Low output	X	X	
	3.5.2	Cardiomyopathy	X	X	X
		3.5.2.1 Hypertrophic	X	X	X
	3.5.3	Congestive heart failure	X	X	
	3.5.4	Coronary syndromes	X	X	
	3.5.5	Ischemic heart disease	X	X	
	3.5.6	Myocardial infarction	X	X	
	3.5.7	Myocarditis	X	X	X
	3.5.8	Ventricular aneurysm	X	X	X
		•	11		11
3.6		of the Pericardium			
	3.6.1	Pericardial tamponade (See 18.1.2.6)	X	X	
	3.6.2	Pericarditis		X	X
3.7	Endocar	rditis	X	X	
3.8	Hyperte	nsion	X	X	X
3.9	Tumors		X	X	

3.10	3.10 Valvular Disorders		X	X	X
3.11	Cardio	vascular Devices			
	3.11.1	Pacemaker/Automatic implantable cardiov	erter-		
		defibrillator (AICD)	X	X	X
	3.11.2	Left ventricular assist device (LVAD)	X	X	X

4.0 **CUTANEOUS DISORDERS**

				Critical	Emergent	Lower Acuity
4.1	Cancer	s of the Ski	n			
	4.1.1	Basal cell				X
	4.1.2	Kaposi's s				X
	4.1.3	Melanom	a			X
	4.1.4	Squamou	s cell			X
4.2	Ulcerat	ive Lesions				
	4.2.1	Decubitus	S		X	X
	4.2.2	Venous st	tasis			X
	4.2.3	Diabetic f	foot ulcers		X	X
4.3	Dermat	itis				
7.5	4.3.1	Atopic				X
	4.3.2	Contact				X
	4.3.3	Eczema				X
	4.3.4	Psoriasis				X
	4.3.4	Seborrhea				X
	4.3.3	Sebonne	1			Λ
4.4	Infectio					
	4.4.1	Bacterial				
		4.4.1.1	Abscess		X	X
		4.4.1.2	Cellulitis		X	X
		4.4.1.3	Erysipelas		X	
		4.4.1.4	Impetigo			X
		4.4.1.5	Necrotizing infection	X	X	
	4.4.2	Fungal				
		4.4.2.1	Candida (See 2.2.1.1, 7.4.7)			X
		4.4.2.2	Dermatophytes			X
	4.4.3	Ectoparas	sites			X
	4.4.4	Viral				
		4.4.4.1	Aphthous ulcers			X
		4.4.4.2	Childhood exanthems			
			(See 10.6.8, 10.6.9)			X
		4.4.4.3	Herpetic infections		X	X
			(See 10.6.4, 10.6.5, 13.1.3.1)			X
		4.4.4.4	Human papillomavirus (HPV)			
			(See 13.1.3.2)			X
		4.4.4.5	Molluscum contagiosum			X
4.5	Maculo	papular Le	sions			
1.5	4.5.1		multiforme		X	X
	4.5.2		nodosum		11	X
	4.5.3		Schönlein purpura (HSP)		X	11
	4.5.4	Pityriasis			11	X
	4.5.5	Purpura	10004		X	X
	4.5.6	Urticaria			X	X
	4.5.7	Drug erup	ations		X	X
	4.3.7	Drug erup	Duons		Λ	Λ

4.6 **Papular/Nodular Lesions**

	4.6.1 4.6.2 4.6.3	Hemangioma/Lymphangioma Lipoma Sebaceous cyst			X X X
4.7	Vesicula	ar/Bullous Lesions			
	4.7.1	Pemphigus		X	
	4.7.2	Staphylococcal scalded skin syndrome	X	X	
	4.7.3	Stevens-Johnson syndrome	X	X	
	4.7.4	Toxic epidermal necrolysis	X	X	
	4.7.5	Bullous pemphigoid		X	X

5.0 ENDOCRINE, METABOLIC, AND NUTRITIONAL DISORDERS

5.1	A cid-ba	se Disturk	nancas		Critical	Emergent	Lower Acuity
3.1	5.1.1		ic or respirat	orv			
	3.1.1	5.1.1.1	Acidosis	ory	X	X	
		5.1.1.2	Alkalosis		X	X	X
	5.1.2			ance disorder	X	X	Λ
			era buse bure	mee disorder	71	71	
5.2		Disease		· .			
	5.2.1		drenal insuf	ficiency	X	X	
	5.2.2	Cushing	's syndrome			X	X
5.3			lyte Disturb				
	5.3.1		metabolism		X	X	X
	5.3.2			me depletion	X	X	
	5.3.3		m metabolis	m	X	X	X
	5.3.4		metabolism		X	X	X
	5.3.5	-	um metaboli			X	X
	5.3.6	Phospho	rus metaboli	sm		X	X
5.4	Glucose	Metaboli	sm				
	5.4.1	Diabetes	mellitus				
		5.4.1.1	Type I		X	X	X
		5.4.1.2	Type II			X	X
		5.4.1.3	Complicat	ions in glucose metabol	lism		
			5.4.1.3.1	Diabetic ketoacidosis (DKA)	X	X	
			5.4.1.3.2	Hyperglycemia		X	X
			5.4.1.3.3	Hyperosmolar			
				hyperglycemic state	X	X	
			5.4.1.3.4	Hypoglycemia	X	X	
		5.4.1.4	Insulin pui	mp malfunction	X	X	X
5.5	Nutritio	nal Disor	ders				
	5.5.1	Vitamin	deficiencies				X
	5.5.2		e-Korsakoff			X	
	5.5.3	Malabso		•		X	X
	5.5.4	Malnutri				X	X
5.6	Parathy	roid Disea	ase			X	X
5.7	Dituitor	y Disorde	n a			X	X
3.7	5.7.1	-	pituitarism			X	Α
5 0	Thunsid	Disandan					
5.8	•	Disorder			v	v	v
	5.8.1		yroidism		X	X	X
	5.8.2	Hypothy			X	X	X
	5.8.3	Thyroidi	ius			X	X
5.9			rine Glands				
	5.9.1	Adrenal				X	X

	5.9.1.1 Pheochromocytoma	X	X	
5.9.2	Pituitary		X	X
5.9.3	Thyroid		X	X

6.0 ENVIRONMENTAL DISORDERS

			Critical	Emergent	Lower Acuity
6.1	Bites ar	nd Envenomation (See 18.1.3.2)		_	
	6.1.1	Arthropods		X	X
		6.1.1.1 Insects			X
		6.1.1.2 Arachnids		X	X
	6.1.2	Mammals		X	X
	6.1.3	Marine organisms (See 17.1.20)	X	X	X
	6.1.4	Reptiles	X	X	X
6.2	Dysbar	ism			
	6.2.1	Air embolism	X	X	
	6.2.2	Barotrauma	X	X	X
	6.2.3	Decompression syndrome	X	X	
6.3	Electric	cal Injury (See 18.1.3.3.1)	X	X	X
	6.3.1	Lightning	X	X	
6.4	High-al	titude Illness			
	6.4.1	Acute mountain sickness		X	X
	6.4.2	Barotrauma of ascent		X	X
	6.4.3	High-altitude cerebral edema	X	X	
	6.4.4	High-altitude pulmonary edema	X	X	
6.5	Submer	rsion Incidents	X	X	X
6.6	Temper	rature-related Illness			
	6.6.1	Heat	X	X	X
	6.6.2	Cold	X	X	X
		6.6.2.1 Frostbite		X	X
		6.6.2.2 Hypothermia	X	X	
6.7	Radiati	on Emergencies	X	X	X

7.0 **HEAD, EAR, EYE, NOSE, THROAT DISORDERS**

7.1			Critical	Emergent	Lower Acuity
7.1	Ear	D : 1 1		***	*7
	7.1.1	Foreign body		X	X
	7.1.0	7.1.1.1 Impacted cerumen			X
	7.1.2	Labyrinthitis		***	X
	7.1.3	Mastoiditis		X	**
	7.1.4	Ménière's disease			X
	7.1.5	Otitis externa			X
		7.1.5.1 Infective			X
		7.1.5.1.1 Malignant		X	
	7.1.6	Otitis media		X	X
	7.1.7	Perforated tympanic membrane (See 18.1	.11.2)		X
	7.1.8	Perichondritis		X	X
7.2	Eye				
1.2	7.2.1	External eye			
	7.2.1	7.2.1.1 Burn confined to eye (See 18.1	10.2)	X	
		7.2.1.2 Conjunctivitis	.10.2)	71	X
		7.2.1.2 Conjunctivitis 7.2.1.3 Corneal abrasions (See 18.1.10	11)	X	X
		7.2.1.4 Disorders of lacrimal system	.1)	X	X
		7.2.1.5 Foreign body		X	X
		7.2.1.6 Disorders of the eyelids		Λ	X
		7.2.1.7 Keratitis		X	X
	7.2.2	Anterior pole		Λ	Λ
	1.2.2	7.2.2.1 Glaucoma		X	X
				X	X
		,		X	X
		· · · · · · · · · · · · · · · · · · ·		X	Λ
	7.2.3	V1 1V		Λ	
	1.2.3	Posterior pole		X	
		7.2.3.1 Choroiditis/Chorioretinitis7.2.3.2 Optic neuritis		X	
		±	V	X	
		7.2.3.3 Papilledema	X	Λ	
		7.2.3.4 Retinal detachments and defect	ts	37	
		(See 18.1.10.8)		X	
	7.0.4	7.2.3.5 Retinal vascular occlusion		X	
	7.2.4	Orbit			
		7.2.4.1 Cellulitis		37	
		7.2.4.1.1 Preseptal		X	
		7.2.4.1.2 Septal/Orbital		X	
		7.2.4.2 Endophthalmitis		X	
7.3	Nose				
1.5	7.3.1	Epistaxis	X	X	X
	7.3.1	Foreign body	Λ	X	X
	7.3.2	Rhinitis		Λ	X
	7.3.4	Sinusitis			X
	1.3.4	Sinusius			Λ
7.4	Oropha	rynx/Throat			
	7.4.1	Dentalgia			X
	7.4.2	Diseases of the oral soft tissue			

		7.4.2.1	Ludwig's angina	X	X	
		7.4.2.2	Stomatitis			X
	7.4.3	Diseases	s of the salivary glands			
		7.4.3.1	Sialolithiasis		X	X
		7.4.3.2	Suppurative parotitis		X	
	7.4.4	Foreign	body	X	X	
	7.4.5	Gingiva	l and periodontal disorders			
	7.4.6	Larynx/	Гrachea			
		7.4.6.1	Epiglottitis (See 16.1.1.2)	X	X	
		7.4.6.2	Laryngitis			X
		7.4.6.3	Tracheitis		X	X
		7.4.6.4	Tracheostomy complications	X	X	X
	7.4.7	Oral can	didiasis (See 2.2.1.1, 4.4.2.1)			X
	7.4.8	Dental a	bscess		X	X
	7.4.9	Peritons	illar abscess		X	
	7.4.10	Pharyng	itis/Tonsillitis			X
	7.4.11	Retroph	aryngeal abscess	X	X	
	7.4.12	Tempore	omandibular joint disorders			X
7.5	Tumors			X	X	X

8.0 **HEMATOLOGIC DISORDERS**

0.1	D1 10	D 4 .	Critical	Emergent	Lower Acuity
8.1	8.1.1	Transfusion Complications	X	X	
8.2	Hemos	tatic Disorders			
	8.2.1	Coagulation defects	X	X	X
		8.2.1.1 Acquired	X	X	X
		8.2.1.2 Hemophilias	X	X	X
	8.2.2	Disseminated intravascular coagulation	ion X		
	8.2.3	Platelet disorders	X	X	X
		8.2.3.1 Thrombocytopenia		X	X
		8.2.3.2 Idiopathic thrombocytoper	nic		
		purpura	X	X	X
		8.2.3.3 Thrombotic thrombocytop	enic		
		purpura	X	X	
8.3	Lymph	omas		X	X
8.4	Pancyto	openia	X	X	
8.5	Red Blo	ood Cell Disorders			
0.0	8.5.1	Anemias			
	0.0.1	8.5.1.1 Aplastic	X	X	
		8.5.1.2 Hemoglobinopathies		X	X
		8.5.1.2.1 Sickle cell and	emia	X	X
		8.5.1.3 Hemolytic		X	
		8.5.1.4 Hypochromic			
		8.5.1.4.1 Iron deficienc	V	X	X
		8.5.1.5 Megaloblastic	J	X	X
	8.5.2	Polycythemia		X	X
	8.5.3	Methemoglobinemia (See 17.1.21)	X	X	71
	0.2.2	Wiethemogroomema (See 17.11.21)	11	11	
8.6	White l	Blood Cell Disorders			
	8.6.1	Leukemia		X	X
	8.6.2	Multiple myeloma		X	X
	8.6.3	Leukopenia		X	X
8.7	Oncolo	gic Emergencies	X	X	X

9.0 IMMUNE SYSTEM DISORDERS

			Critical	Emergent	Lower Acuity
9.1	Collage	n Vascular Disease		_	-
	9.1.1	Raynaud's disease			X
	9.1.2	Reactive arthritis (See 11.3.1.6)	X	X	
	9.1.3	Rheumatoid arthritis (See 11.3.1.3)		X	X
	9.1.4	Scleroderma		X	X
	9.1.5	Systemic lupus erythematosus		X	X
	9.1.6	Vasculitis		X	X
9.2	Hypers	ensitivity			
	9.2.1	Allergic reaction		X	X
	9.2.2	Anaphylaxis	X		
	9.2.3	Angioedema	X	X	
	9.2.4	Drug allergies	X	X	X
9.3	Transp	lant-related Problems	X	X	X
	9.3.1	Immunosuppression		X	X
	9.3.2	Rejection	X	X	
9.4	Immun	e Complex Disorders		X	
	9.4.1	Mucocutaneous lymph node syndrome (Kawasaki syndrome)		X	X
	9.4.2	Rheumatic fever		X	X
	9.4.3	Sarcoidosis		X	X
	9.4.4	Post-streptococcal glomerulonephritis			
		(See 15.3.1)		X	
9.5	Medica	tion-induced Immunosuppression	X	X	
	9.5.1	Chemotherapeutic agents	X	X	
	9.5.2	Steroids	X	X	
	9.5.3	Targeted immune modulators	X	X	

10.0 SYSTEMIC INFECTIOUS DISORDERS

			Critical	Emergent	Lower Acuity
10.1	Bacteria				
	10.1.1	Bacterial food poisoning	X 7	X	X
	10.1.2	10.1.1.1 Botulism	X	X	*7
	10.1.2	Chlamydia		X	X
	10.1.3	Gonococcus	3 7	X	X
	10.1.4	Meningococcus	X	X	
	10.1.5	Mycobacterium		v	V
		10.1.5.1 Atypical mycobacteria		X	X
	10.1.6	10.1.5.2 Tuberculosis	37	X	X
	10.1.6	Other bacterial diseases	X	X	
	10.1.7	10.1.6.1 Gas gangrene (See 11.6.3)	X	X	
	10.1.7	Sepsis/Bacteremia	X	X	
		10.1.7.1 Shock	X	37	
	10.1.0	10.1.7.2 Toxic shock syndrome	X	X	
	10.1.8	Spirochetes		**	***
	10.1.0	10.1.8.1 Syphilis	**	X	X
	10.1.9	Tetanus	X	X	
10.2	Biologic	cal Warfare Agents	X	X	
10.3	Fungal 1	Infections		X	X
	_				
10.4		an/Parasites			
	10.4.1	Malaria		X	
	10.4.2	Toxoplasmosis		X	X
10.5	Tick-Bo	orne			
	10.5.1	Anaplasmosis (Ehrlichiosis)		X	
	10.5.2	Lyme disease		X	
	10.5.3	Rocky Mountain spotted fever		X	
		•			
10.6	Viral			X	X
	10.6.1	Infectious mononucleosis		X	X
	10.6.2	Influenza/Parainfluenza		X	X
	10.6.3	Arbovirus	X	X	X
	10.6.4	Herpes simplex (See 4.4.4.3, 13.1.3.1)		X	X
	10.6.5	Herpes zoster/Varicella (See 4.4.4.3)		X	X
	10.6.6	HIV/AIDS	X	X	X
	10.6.7	Rabies	X		
	10.6.8	Roseola (See 4.4.4.2)			X
	10.6.9	Rubella (See 4.4.4.2)			X
10.7	Emergi	ng Infections/Pandemics	X	X	X
10.8	Drug Re	esistance	X	X	X

11.0 MUSCULOSKELETAL DISORDERS (NONTRAUMATIC)

	T	Critical	Emergent	Lower Acuity
11.1	Bony Abnormalities 11.1.1 Aseptic/Avascular necrosis		X	X
	11.1.2 Osteomyelitis		X	
	11.1.3 Tumors		X	X
	11.1.4 Atypical fractures		X X	X X
	11.1.4.1 Osteoporotic 11.1.4.2 Tumor-related		X	X
	11.1.4.3 Congenital disorders		X	X
11.2	Disorders of the Spine			
	11.2.1 Disc disorders		X	X
	11.2.2 Inflammatory spondylopathies		X	X
	11.2.3 Radiculopathy (See 12.7.3)		X	X
	11.2.4 Spinal stenosis11.2.5 Cervical pain	X	X X	X X
	11.2.6 Thoracic pain	X	X	X
	11.2.7 Lumbosacral pain	X	X	X
	11.2.7.1 Cauda equina syndrome			
	(See 18.1.15.1)	X	X	
	11.2.7.2 Sacroiliitis			X
	11.2.7.3 Sciatica		X	X
11.3	Joint Abnormalities			
	11.3.1 Arthritis		37	
	11.3.1.1 Septic		X X	X
	11.3.1.2 Crystal arthropathies 11.3.1.3 Rheumatoid (See 9.1.3)		Λ	X
	11.3.1.4 Juvenile			X
	11.3.1.5 Osteoarthrosis			X
	11.3.1.6 Reactive arthritis (See 9.1.2)		X	X
	11.3.2 Congenital dislocation of the hip		X	X
	11.3.3 Slipped capital femoral epiphysis		X	V
	11.3.4 Synovitis		X	X
11.4	Muscle Abnormalities			v
	11.4.1 Myositis 11.4.2 Rhabdomyolysis	X	X	X
	11.4.2 Relabdomyorysis	71	71	
11.5	· ·			**
	11.5.1 Bursitis 11.5.2 Muscle strains			X X
	11.5.2 Muscle strains11.5.3 Peripheral nerve syndrome			X
	11.5.3.1 Carpal tunnel syndrome			X
	11.5.4 Tendinopathy			X
	11.5.5 Stress reaction fracture		X	X
11.6				
	11.6.1 Fasciitis		X	
	11.6.2 Felon		X	

11.6.3	Gangrene (See 10.1.6.1)	X	X	
11.6.4	Paronychia		X	X
11.6.5	Tenosynovitis		X	X

12.0 NERVOUS SYSTEM DISORDERS

		Critical	Emergent	Lower Acuity
12.1	Cranial Nerve Disorders 12.1.1 Idiopathic facial nerve paralysis (Bell's palsy) 12.1.2 Trigeminal neuralgia			X X X
12.2	Demyelinating Disorders 12.2.1 Multiple sclerosis	X	X X	X
12.3	Headache (See 1.2.2) 12.3.1 Tension 12.3.2 Vascular 12.3.3 Cluster	X	X X X	X X X X
12.4	Hydrocephalus 12.4.1 Normal pressure 12.4.2 VP shunt		X X X	X X
12.5	Infections/Inflammatory Disorders 12.5.1 Encephalitis 12.5.2 Intracranial and intraspinal abscess 12.5.3 Meningitis 12.5.3.1 Bacterial 12.5.3.2 Viral	X X X	X X X	X
	12.5.3.2 VIIII 12.5.4 Myelitis 12.5.5 Neuritis		X	X
12.6	Movement Disorders 12.6.1 Dystonic reaction 12.6.2 Chorea/Choreiform 12.6.3 Tardive dyskinesia		X X	X X X X
12.7	Neuromuscular Disorders 12.7.1 Guillain-Barré syndrome 12.7.2 Myasthenia gravis 12.7.3 Peripheral neuropathy (See 11.2.3)	X X	X X X	X
12.8	Other Conditions of the Brain 12.8.1 Dementia (See 14.5.2) 12.8.2 Parkinson's disease 12.8.3 Idiopathic intracranial hypertension 12.8.4 Cerebral venous sinus thrombosis 12.8.5 Posterior reversible encephalopathy syndrome (PRES)	X X	X X X	X X X
12.9	Seizure Disorders 12.9.1 Epileptiform 12.9.1.1 Neonatal 12.9.1.2 Febrile 12.9.1.3 Status epilepticus 12.9.1.4 Nonconvulsive	X X X X	X X X	X X

12. 12.9.2	9.1.5 Drug-induced Nonepileptiform	X	X	X
12.10 Spinal C	ord Compression	X	X	
12.11 Stroke				
12.11.1	Hemorrhagic			
	12.11.1.1 Intracerebral	X	X	
	12.11.1.2 Subarachnoid	X	X	
12.11.2	Ischemic			
	12.11.2.1 Embolic	X	X	
	12.11.2.2 Thrombotic	X	X	
12.12 Transier	nt Cerebral Ischemia		X	X
12.13 Tumors			X	X
12.14 Delirium	1		X	
12.14.1	Excited delirium syndrome	X	X	

13.0 **OBSTETRICS AND GYNECOLOGY**

					Critical	Emergent	Lower Acuity
13.1		Genital Tr	ract				
	13.1.1	Cervix	~			••	••
				and endocervicitis		X	X
		13.1.1.2					X
	13.1.2		s disorders				
		13.1.2.1		mmatory disease		X	
			13.1.2.1.1	Fitz-Hugh-Curtis		••	
			101010	syndrome		X	
		10100	13.1.2.1.2	Tuboovarian abscess		X	***
	10.1.0	13.1.2.2	Urethritis				X
	13.1.3	Lesions		1 (0 444210	- 45		3 7
				plex (See 4.4.4.3, 10.6	0.4)		X
		13.1.3.2		oillomavirus (HPV)			3 7
	12 1 4	O-10-m1	(See 4.4.4.5	5)			X
	13.1.4	Ovary	Creat				X
		13.1.4.1	Cyst Torsion			V	Λ
						X X	X
	13.1.5	13.1.4.3 Uterus	Tumors			Λ	Λ
	13.1.3		Abnormal l	blooding		X	X
			Endometric			Λ	X
			Prolapse	JS15			X
			Tumors			X	X
		13.1.3.4	13.1.5.4.1	Gestational trophobla	estic	Λ	Λ
			13.1.3.4.1	disease	istic	X	
			13 1 5 4 2	Leiomyoma		71	X
	13.1.6	Vagina a		Leiomyoma			71
	10.1.0		Bartholin's	cvst		X	X
			Foreign bo	•		X	X
				ulvovaginitis			X
			\mathcal{E}	C			
13.2	Normal 1	Pregnanc	y				X
			v				
13.3	Complic	ations of l	Pregnancy				
	13.3.1	Abortion				X	
	13.3.2	Ectopic p	regnancy		X	X	
	13.3.3	Hemolys	is, elevated l	iver enzymes, low			
			(HELLP) sy		X	X	
	13.3.4	Hemorrh	age, antepart	tum			
				lacentae (See 18.2.1)	X	X	
			Placenta pr		X	X	
	13.3.5		esis gravida			X	X
	13.3.6		nal hypertens	sion		X	X
			Eclampsia		X	X	
	10.5 =		Preeclamps	sia		X	
	13.3.7	Infection				X	
	13.3.8		munization		**	X	
	13.3.9		ester bleedir	ng	X	X	X
	13.3.10	Gestation	nal diabetes			X	X

13.4	High-ris	k Pregnancy	X	X	
	13.4.1	Assisted reproductive therapies	X	X	X
	13.4.2	Pre-existing medical problems	X	X	X
13.5	Normal	Labor and Delivery		X	X
13.6	Complic	eations of Labor			
	13.6.1	Fetal distress	X		
	13.6.2	Premature labor (See 18.2.3)		X	
	13.6.3	Premature rupture of membranes		X	
	13.6.4	Rupture of uterus (See 18.2.4)	X		
13.7	Complic	eations of Delivery			
	$13.7.\overline{1}$	Malposition of fetus	X	X	
	13.7.2	Nuchal cord	X		
	13.7.3	Prolapse of cord	X		
13.8	Postpart	tum Complications			
	13.8.1	Endometritis		X	
	13.8.2	Hemorrhage	X	X	
	13.8.3	Mastitis		X	X
	13.8.4	Pituitary infarction	X	X	
13.9	Contrac	eption		X	X

14.0 **PSYCHOBEHAVIORAL DISORDERS**

		Critical	Emergent	Lower Acuity
14.1				
	14.1.1 Alcohol use disorder (See 17.1.1)	X	X	X
	14.1.2 Illicit drug use	X	X	X
	14.1.3 Prescription drug use See 17.1.2.3)	X	X	X
	14.1.3.1 Drug diversion			X
	14.1.4 Tobacco use disorder			X
	14.1.5 Withdrawal syndromes	X	X	X
	•			
14.2	Mood Disorders and Thought Disorders			
	14.2.1 Acute psychosis	X	X	
	14.2.2 Bipolar disorder		X	X
	14.2.3 Depression		X	X
	14.2.3.1 Suicidal risk	X	X	71
	14.2.4 Grief reaction	71	71	X
	14.2.5 Schizophrenia		X	X
	14.2.5 Schizophiema		Λ	Λ
14.3	Factitious Disorders			
14.4	Neurotic Disorders			
	14.4.1 Anxiety/Panic			X
	14.4.2 Obsessive compulsive			X
	14.4.3 Phobic			X
	14.4.4 Post-traumatic stress			X
14.5	Organic Psychoses			
	14.5.1 Chronic organic psychotic conditions			X
	14.5.1.1 Alcoholic psychoses		X	X
	14.5.1.2 Drug psychoses		X	X
	14.5.2 Dementia (See 12.8.1)			X
1/1 6	Patterns of Violence/Abuse/Neglect			
14.0	14.6.1 Interpersonal violence			
	14.6.1.1 Child	X	X	X
		X	X	X
	14.6.1.2 Intimate partner			
	14.6.1.3 Elder	X	X	X
	14.6.2 Homicidal Risk	X	X	
	14.6.3 Sexual assault		X	
	14.6.4 Staff/Patient safety		X	*7
	14.6.5 Human trafficking		X	X
14.7	Personality Disorders			X
140	D 1 (1 D) 1			
14.8	Psychosomatic Disorders			3 7
	14.8.1 Hypochondriasis			X
	14.8.2 Hysteria/Conversion	••	**	X
14.	9 Feeding and Eating Disorders	X	X	X

15.0 RENAL AND UROGENITAL DISORDERS

15.1	Acute a	nd Chronic Renal Failure	Critical X	Emergent X	Lower Acuity X
15.2	Compli	cations of Renal Dialysis	X	X	
15.3		ular Disorders			
	15.3.1	Glomerulonephritis (See 9.4.4)		X	X
	15.3.2	Nephrotic syndrome		X	X
15.4	Infectio				
	15.4.1	Cystitis		**	X
	15.4.2	Pyelonephritis		X	***
	15.4.3	Asymptomatic bacteriuria			X
15.5		enital Tract			
	15.5.1				X
	15.5.2	Hernias		X	X
	15.5.3	Inflammation/Infection			
		15.5.3.1 Balanitis/Balanoposthitis		X	X
		15.5.3.2 Epididymitis/Orchitis		X	X
		15.5.3.3 Gangrene of the scrotum	**	***	
		(Fournier's gangrene)	X	X	*7
		15.5.3.4 Prostatitis		X	X
	1554	15.5.3.5 Urethritis			X
	15.5.4	Structural		v	
		15.5.4.1 Paraphimosis/Phimosis		X X	
		15.5.4.2 Priapism 15.5.4.2.1 Medication induced		X X	X
		15.5.4.3 Prostatic hypertrophy (BPH)		Λ	X
		15.5.4.4 Torsion		X	Λ
	15.5.5	Testicular masses		Λ	X
	15.5.6	Tumors			71
	13.3.0	15.5.6.1 Prostate			X
		15.5.6.2 Testis			X
		10.0.0.2 10.0.0			11
15.6	Nephrit			X	X
	15.6.1	Hemolytic uremic syndrome		X	
15.7	Structu	ral Disorders			
	15.7.1	Calculus of urinary tract		X	X
	15.7.2	Obstructive uropathy		X	
	15.7.3	Polycystic kidney disease			X
	13.7.3	1 offerstie Ridney disease			

16.0 THORACIC-RESPIRATORY DISORDERS

16.1	A outo II	man Ainman Disandons	Critical	Emergent	Lower Acuity
10.1	16.1.1	pper Airway Disorders Infections			
	10.1.1	16.1.1.1 Croup		X	
		•	X	X	
	16 1 2	16.1.1.2 Epiglottitis (See 7.4.6.1)	X X	Λ	
	16.1.2	Obstruction/Foreign body (See 16.4.7)	Λ		
16.2		rs of Pleura, Mediastinum, and Chest Wal	11		
	16.2.1	Costochondritis			X
	16.2.2	Mediastinitis	X	X	
	16.2.3	Pleural effusion		X	X
	16.2.4	Pleuritis			X
	16.2.5	Pneumomediastinum		X	
	16.2.6	Pneumothorax (See 18.1.2.7)			
		16.2.6.1 Simple		X	
		16.2.6.2 Tension	X		
		16.2.6.3 Open	X		
	16.2.7	Empyema		X	X
16.3		espiratory Distress Syndrome	X	X	
16.4		tive/Restrictive Lung Disease			
	16.4.1	Asthma/Reactive airway disease	X	X	
	16.4.2	Bronchitis and bronchiolitis		X	X
	16.4.3	Bronchopulmonary dysplasia		X	X
	16.4.4	Chronic obstructive pulmonary disease	X	X	X
	16.4.5	Cystic fibrosis	X	X	X
	16.4.6	Environmental/Industrial exposure	X	X	X
	16.4.7	Foreign body (See 16.1.2)	X	X	
16.5	Physical	and Chemical Irritants/Insults			
10.5	16.5.1	Pneumoconiosis		X	X
	16.5.2	Toxic effects of gases, fumes, vapors		71	71
	10.5.2	(See 18.1.3.3.2)	X	X	X
		(See 10.1.5.5.2)	71	71	Α
16.6		ary Embolism/Infarct			
	16.6.1	Septic emboli	X	X	
	16.6.2	Venous thromboembolism (See 3.3.2.1)	X	X	
	16.6.3	Fat emboli	X	X	
16.7	Pulmone	ary Infections			
10.7	16.7.1	Lung abscess		X	
	16.7.1	Pneumonia Pneumonia		21	
	10.7.2	16.7.2.1 Aspiration	X	X	
		16.7.2.1 Aspiration 16.7.2.2 Community-acquired	X	X	X
		16.7.2.2 Community-acquired 16.7.2.3 Health care-associated	X X	X X	X
	1672		Λ		Λ
	16.7.3	Pulmonary tuberculosis	V	X	V
	16.7.4	Respiratory syncytial virus (RSV)	X	X	X
	16.7.5	Pertussis	X	X	X

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	16.8.1 16.8.2	Breast Pulmonary		X	X
16.9	Pulmona	ary Hypertension	X	X	X

17.0 TOXICOLOGIC DISORDERS

			Critical	Emergent	Lower Acuity
17.1	Drug an	d Chemical Classes			
	17.1.1	Alcohol (See 14.1.1)			
		17.1.1.1 Ethanol	X	X	X
		17.1.1.2 Ethylene glycol	X	X	
		17.1.1.3 Isopropyl	X	X	X
		17.1.1.4 Methanol	X	X	
	17.1.2	Analgesics			
		17.1.2.1 Acetaminophen		X	
		17.1.2.2 Nonsteroidal anti-inflammatories			
		(NSAIDS)		X	X
		17.1.2.3 Opioids (See 14.1.3)	X	X	
		17.1.2.4 Salicylates	X	X	
	17.1.3	Anticholinergics	X	X	
	17.11.5	17.1.3.1 Antihistamines	11	X	
	17.1.4	Anticoagulants/Antithrombotics	X	X	
	17.1.4	17.1.4.1 Direct thrombin inhibitors	X	21	
		17.1.4.1 Direct unonioni ininoitors 17.1.4.2 Factor Xa inhibitors	X		
		17.1.4.2 Pactor Xa minoritors 17.1.4.3 Heparins	Λ	X	
			X	Λ	X
	17.1.5	17.1.4.4 Vitamin K antagonists Anticonvulsants	X	V	Λ
				X	
	17.1.6	Antidepressants	X	X	
		17.1.6.1 Bupropion		X	
		17.1.6.2 Selective serotonin reuptake		***	***
		inhibitors	**	X	X
		17.1.6.3 Tricyclic antidepressants	X	X	
	17.1.7	Antiemetics		X	
	17.1.8	Antimicrobials			
		17.1.8.1 Antibiotics		X	X
		17.1.8.1.1 Isoniazid	X	X	
		17.1.8.2 Antimalarials	X	X	X
		17.1.8.3 Antiretrovirals	X	X	X
	17.1.9	Antipsychotics	X	X	
	17.1.10	Carbon monoxide	X	X	
	17.1.11	Cardiovascular drugs			
		17.1.11.1 Antiarrhythmics	X	X	
		17.1.11.1 Digoxin	X	X	
		17.1.11.2 Antihypertensives	X	X	
		17.1.11.2.1 Central acting	X	X	
		17.1.11.2.2 Peripheral Acting	X	X	
		17.1.11.3 Beta blockers	X	X	
		17.1.11.4 Calcium channel blockers	X	X	
	17.1.12	Cholinergics	X	X	
		17.1.12.1 Nerve agents	X	X	
		17.1.12.2 Organophosphates	X	X	
	17.1.13	Cyanides, hydrogen sulfide	X	X	
	17.1.14	Heavy metals	X	X	
	17.1.15	Herbicides, insecticides, and rodenticides	X	X	
	17.1.16	Household/Industrial chemicals	X	X	X
	1,,1,10	17.1.16.1 Caustic agents (See 2.2.2.3)	X	X	41
		17.11.10.1 Caubile agoing (500 2.2.2.5)	4.1	21	

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17.1.16.2 Hydrocarbons X		
17.1.16.3 Inhaled irritants X	X	
17.1.17 Hypoglycemics/Insulin X	X	
17.1.18 Lithium X	X	X
17.1.19 Local anesthetics X	X	
17.1.20 Marine toxins (See 6.1.3) X	X	X
17.1.21 Methemoglobinemia (See 8.5.3) X	X	
17.1.22 Mushrooms/Poisonous plants X	X	
17.1.23 Nutritional supplements	X	X
17.1.23.1 Iron X	X	
17.1.23.2 Performance enhancing and		
weight-loss drugs X	X	X
17.1.24 Recreational drugs X	X	X
17.1.24.1 Cannabis		X
17.1.24.1.1 Cannabinoid hyperemesis		
syndrome/cyclic vomiting		X
17.1.24.2 Synthetic cannabinoids X	X	X
17.1.24.3 Hallucinogens X	X	X
17.1.24.4 GHB X	X	X
17.1.25 Sedatives/Hypnotics X	X	
17.1.26 Stimulants/Sympathomimetics X	X	
17.1.26.1 Amphetamines X	X	
17.1.26.2 Cocaine X	X	X

18.0 TRAUMATIC DISORDERS

18 1	Trauma				Critical	Emergent	Lower Acuity
10.1	18.1.1	Abdomir	nal trauma				
	10.1.1		Diaphragm	1	X	X	
			Hollow vis		X	X	
			Penetrating		X	X	
			Retroperito		X	X	
			Solid organ		X	X	
			Vascular	I	X	X	
	18.1.2	Chest tra			Λ	Λ	
	10.1.2			action/Dismuntion	X		
				ection/Disruption	Λ		
		16.1.2.2	Contusion	Cardina	v	v	v
			18.1.2.2.1		X	X	X
		10 1 2 2	18.1.2.2.2	Pulmonary	X	X	
		18.1.2.3		C1:-1-		v	v
			18.1.2.3.1	Clavicle	37	X	X
			18.1.2.3.2	Ribs/Flail chest	X	X	X
		10101	18.1.2.3.3	Sternum		X	X
			Hemothora		X	X	
				g chest trauma	X	X	
				tamponade (See 3.6.1)	X		
		18.1.2.7		orax (See 16.2.6)			
			18.1.2.7.1	Simple		X	
			18.1.2.7.2	Tension	X		
			18.1.2.7.3	Open	X		
	18.1.3		as injuries				
			Avulsions			X	X
			Bite wound	ds (See 6.1)		X	X
		18.1.3.3	Burns				
				Electrical (See 6.3)	X	X	X
			18.1.3.3.2	Chemical (See 16.5.2)) X	X	X
			18.1.3.3.3	Thermal	X	X	X
		18.1.3.4	Laceration	S		X	X
		18.1.3.5	Puncture w	ounds		X	X
		18.1.3.6	Nail injurie	es			X
	18.1.4	Facial fra	actures				X
		18.1.4.1	Dental			X	X
		18.1.4.2	Le Fort		X	X	X
		18.1.4.3	Mandibula	r		X	X
		18.1.4.4	Orbital			X	X
		18.1.4.5					X
				Septal hematoma		X	
		18.1.4.6		omaxillary complex			X
	18.1.5		inary trauma				
	10.1.0		Bladder	•		X	
			External ge	enitalia		X	
		18.1.5.3		ZIII WII W		X	X
			Ureteral			X	4.1
			Urethral			X	X
	18.1.6	Head trai				1	1
	10.1.0	ricau nai	umu				

	18.1.6.1	Intracranial injury	X	X	***
		18.1.6.1.1 Concussion		X	X
		18.1.6.1.2 Intracranial hemorrhage	X	X	
		Scalp lacerations/Avulsions		X	X
		Skull fractures		X	X
18.1.7		f the spine			
	18.1.7.1	Dislocations/Subluxations	X	X	
	18.1.7.2		X	X	X
	18.1.7.3	Sprains/Strains			X
18.1.8		bony trauma			
	18.1.8.1	Dislocations/Subluxations		X	
	18.1.8.2	Fractures (open and closed)		X	X
18.1.9	Neck trau	ma			
	18.1.9.1	Laryngotracheal injuries	X	X	
	18.1.9.2	Penetrating neck trauma	X	X	
		Vascular injuries	X	X	
	18.1.9.4	Strangulation	X	X	X
18.1.10		ologic trauma			
		Corneal abrasions/Lacerations			
		(See 7.2.1.3)		X	X
		Corneal burns (See 7.2.1.1)			
		18.1.10.2.1 Acid		X	
		18.1.10.2.2 Alkali		X	
		18.1.10.2.3 Ultraviolet		X	X
	18.1.10.3	Eyelid lacerations		X	
		Foreign body (See 19.4.4.8)		X	
		Hyphema (See 7.2.2.2)		X	
		Lacrimal duct injuries		X	
		Penetrating globe injuries		X	
		Retinal detachments (See 7.2.3.4)		X	
		Traumatic iritis (See 7.2.2.3)		X	X
		Retrobulbar hematoma		X	11
18.1.11	Otologic t			11	
10.1.11	-	Hematoma		X	X
		Perforated tympanic membrane (See	7 1 7)	71	X
18.1.12	Pediatric f		7.1.7)		71
10.1.12		Epiphyseal		X	X
	10.1.12.1	18.1.12.1.1 Salter-Harris classification	on	X	X
	18 1 12 2	Greenstick	Oli	X	Λ
	18.1.12.3			Λ	X
		Apophyseal avulsion			X
18.1.13	Pelvic frac		X	X	Λ
18.1.14		e extremity injuries	Λ	Λ	
10.1.14		• •		V	
		Amputations/Replantation		X X	
		Compartment syndromes		X	
		High-pressure injection			\mathbf{v}
		Injuries to joints		X	X
		Penetrating trauma		X	X
		Periarticular			X
		Sprains/Strains Tandan injuries			X
	10.1.14.8	Tendon injuries	_	V	
		18.1.14.8.1 Lacerations/Transections	S	X	v
		18.1.14.8.2 Ruptures		X	X

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	18.1.15	18.1.14.9 Vascular injuries Spinal cord and nervous system trauma 18.1.15.1 Cauda equina syndrome	X	X	
		(See 11.2.7.1)	X	X	
		18.1.15.2 Injury to nerve roots		X	X
		18.1.15.3 Peripheral nerve injury		X	X
		18.1.15.4 Spinal cord injury 18.1.15.4.1 Spinal cord injury without radiologic abnormality	X	X	X
		(SCIWORA)		X	
18.2	Trauma	in Pregnancy			
	18.2.1	Abruptio placentae (See 13.3.4.1)	X	X	
	18.2.2	Resuscitative hysterotomy (See 19.4.8.2)	X		
	18.2.3	Premature labor (See 13.6.2)		X	
	18.2.4	Rupture of uterus (See 13.6.4)	X		
18.3	Multi-sy	stem Trauma	X	X	
	18.3.1	Blast injury	X	X	
	18.3.2	Falls	X	X	X
	18.3.3	Motor vehicle collision	X	X	X
	18.3.4	Assault	X	X	X

Intubation

19.1 Airway Techniques

19.1.1

19.0 PROCEDURES AND SKILLS INTEGRAL TO THE PRACTICE OF EMERGENCY MEDICINE

	19.1.2	Airway adjuncts
	19.1.3	Surgical airway
	19.1.4	Mechanical ventilation
	19.1.5	Non-invasive ventilatory management
	19.1.6	Ventilatory monitoring
19.2	Resuscit	ation
	19.2.1	Cardiopulmonary resuscitation
		Neonatal resuscitation
		Pediatric resuscitation
	19.2.4	Post-resuscitative care
	19.	2.4.1 Therapeutic hypothermia (or targeted temperature management
	19.2.5	Blood, fluid, and component therapy
	19.2.6	Arterial catheter insertion
	19.2.7	Central venous access
	19.2.8	Intraosseous line placement
	19.2.9	Defibrillation
	19.2.10	Thoracotomy
19.3	Anesthe	sia and Acute Pain Management
-,	19.3.1	Local anesthesia
	19.3.2	
		Procedural sedation
	19.3.4	
19.4	Diagno	stic and Therapeutic Procedures
	19.4.1	Abdominal and gastrointestinal
		19.4.1.1 Anoscopy
		19.4.1.2 Excision of thrombosed hemorrhoid
		19.4.1.3 Gastric lavage
		19.4.1.4 Gastrostomy tube replacement
		19.4.1.5 Nasogastric tube
		19.4.1.6 Paracentesis
	19.4.2	Cardiovascular and Thoracic
		19.4.2.1 Cardiac pacing
		19.4.2.2 Cardioversion
		19.4.2.3 ECG interpretation
		19.4.2.4 Pericardiocentesis
		19.4.2.5 Thoracentesis
		19.4.2.6 Thoracostomy
	19.4.3	Cutaneous
		19.4.3.1 Escharotomy
		19.4.3.2 Incision and drainage
		19.4.3.3 Trephination, nails
		19.4.3.4 Wound closure techniques
		1

	19.4.3.5 Wound management
19.4.4	Head, ear, eye, nose, and throat
	19.4.4.1 Control of epistaxis
	19.4.4.2 Drainage of peritonsillar abscess
	19.4.4.3 Laryngoscopy
	19.4.4.4 Lateral canthotomy
	19.4.4.5 Slit lamp examination
	19.4.4.6 Tonometry
	19.4.4.7 Tooth stabilization
	19.4.4.8 Corneal foreign body removal (See 18.1.10.4)
	19.4.4.9 Drainage of hematoma
19.4.5	Systemic infectious
	19.4.5.1 Personal protection (equipment and techniques)
	19.4.5.2 Universal precautions and exposure management
19.4.6	Musculoskeletal
	19.4.6.1 Arthrocentesis
	19.4.6.2 Compartment pressure measurement
	19.4.6.3 Fracture/Dislocation immobilization techniques
	19.4.6.4 Fracture/Dislocation reduction techniques
	19.4.6.5 Spine immobilization techniques
	19.4.6.6 Fasciotomy
19.4.7	Nervous system
	19.4.7.1 Lumbar puncture
19.4.8	Obstetrics and gynecology
	19.4.8.1 Delivery of newborn
	19.4.8.2 Perimortem c-section (See 18.2.2)
10.10	19.4.8.3 Sexual assault examination
19.4.9	Psychobehavioral
	19.4.9.1 Psychiatric screening examination
10 1 10	19.4.9.2 Violent patient management/Restraint
19.4.10	Renal and urogenital
	19.4.10.1 Bladder catheterization
	19.4.10.1.1 Urethral catheter
	19.4.10.1.2 Suprapubic catheter
	19.4.10.2 Cystourethrogram
10 4 11	19.4.10.3 Testicular detorsion
19.4.11	Toxicologic 19.4.11.1 Decontamination
	19.4.11.1 Decontamination
Ultraso	und
19.5.1	Diagnostic ultrasound

19.5

19.5.2 Procedural ultrasound

19.6 Other Diagnostic and Therapeutic Procedures

- 19.6.1 Foreign body removal19.6.2 Collection and handling of forensic material

20.0 OTHER CORE COMPETENCIES OF THE PRACTICE OF EMERGENCY MEDICINE

20.1	Interpersonal	and	Communication	Skills
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- 20.1.1 Interpersonal skills
 - 20.1.1.1 Inter-departmental and medical staff relations
 - 20.1.1.2 Intra-departmental relations, teamwork, and collaboration skills
 - 20.1.1.3 Patient and family experience of care
- 20.1.2 Communication skills
 - 20.1.2.1 Complaint management and service recovery
 - 20.1.2.2 Conflict management
 - 20.1.2.3 Crisis resource management
 - 20.1.2.4 Delivering bad news
 - 20.1.2.5 Cultural competency
 - 20.1.2.6 Negotiation skills

20.2 Practice-based Learning and Improvement

- 20.2.1 Performance improvement and lifelong learning
 - 20.2.1.1 Evidence-based medicine
 - 20.2.1.2 Interpretation of medical literature
 - 20.2.1.3 Knowledge translation
 - 20.2.1.4 Patient safety and medical errors
 - 20.2.1.5 Performance evaluation and feedback
 - 20.2.1.6 Research
- 20.2.2 Practice guidelines
- 20.2.3 Education
 - 20.2.3.1 Patient and family
 - 20.2.3.2 Provider
- 20.2.4 Principles of quality improvement

20.3 **Professionalism**

- 20.3.1 Advocacy
 - 20.3.1.1 Patient
 - 20.3.1.2 Professional
 - 20.3.1.3 Healthcare disparities
- 20.3.2 Ethical principles
 - 20.3.2.1 Conflicts of interest
 - 20.3.2.2 Diversity awareness
 - 20.3.2.3 Electronic communications/Social media
 - 20.3.2.4 Medical ethics
 - 20.3.2.5 Stewardship of resources
- 20.3.3 Leadership and management principles
- 20.3.4 Well-being
 - 20.3.4.1 Fatigue and impairment
 - 20.3.4.2 Time management/Organizational skills
 - 20.3.4.3 Work/Life balance
 - 20.3.4.4 Work dysphoria (burn-out)

20.4 Systems-based Practice

- 20.4.1 Clinical informatics
 - 20.4.1.1 Computerized order entry

	20.4.1.2 Clinical decision support
	20.4.1.3 Electronic health record
	20.4.1.4 Health information integration
20.4.2	ED Administration
	20.4.2.1 Contracts and practice models
	20.4.2.2 Patient flow and throughput
	20.4.2.2.1 Patient triage and classification
	20.4.2.2.2 Hospital crowding and diversion
	20.4.2.2.3 Observation and rapid treatment units
	20.4.2.3 Financial principles
	20.4.2.3.1 Billing and coding
	20.4.2.3.2 Cost-effective care and resource utilization
	20.4.2.3.3 Reimbursement issues
	20.4.2.4 Human resource management
	20.4.2.4.1 Allied health professionals
	20.4.2.4.2 Recruitment, credentialing, and orientation
20.4.3	ED operations
	20.4.3.1 Policies and procedures
	20.4.3.2 ED data acquisition and operational metrics
	20.4.3.3 Safety, security, and violence in the ED
	20.4.3.4 Patient satisfaction
20.4.4	Health care coordination
	20.4.4.1 End-of-life and palliative care
	20.4.4.1.1 Advance directives
	20.4.4.1.2 Coordination with hospice
	20.4.4.1.3 Organ donation
	20.4.4.2 Placement options
	20.4.4.2.1 Activities of daily living/functional assessment
	20.4.4.3 Outpatient services
20.4.5	Regulatory/Legal
	20.4.5.1 Accreditation
	20.4.5.2 Compliance and reporting requirements
	20.4.5.3 Confidentiality and privacy
	20.4.5.4 Consent, capacity, and refusal of care
	20.4.5.5 Emergency Medical Treatment and Active Labor Act (EMTALA)
	20.4.5.6 External quality metrics
	20.4.5.7 Good Samaritan emergency care
20.4.6	Risk management
	20.4.6.1 Liability and litigation
	20.4.6.2 Professional liability insurance
	20.4.6.3 Risk mitigation
	20.4.6.4 Error disclosure
	20.4.6.5 Root cause analysis
20.4.7	Evolving trends in health care delivery
	20.4.7.1 Public policy
20.4.8	Regionalization of emergency care

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