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 2003 EM Model Review Task Force reviewed the 2001 EM Model, as requested by the Core Content Task Force II. Their work was published in the June 2005 *Annals of Emergency Medicine* and the June 2005 *Academic Emergency Medicine*.

The 2005 EM Model Review Task Force conducted the second review of the EM Model. Their work is published in the October 2006 issue of *Academic Emergency Medicine* and online-only in *Annals of Emergency Medicine*.

The 2007 EM Model Review Task Force conducted the third review of the EM Model.

#### 2007 EM Model Review Task Force

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#### 2005 EM Model Review Task Force

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#### Core Content Task Force II

Advisory Panel to the Task Force

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All changes that resulted from the 2007 EM Model Review Task Force are summarized in Figure 1.

#### Preamble of the Core Content Task Force II, Adapted for the 2007 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.

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 are incorporated into this document.

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 common conditions, symptoms, and disease presentations. Together these three components describe the clinical practice of Emergency Medicine and differentiate it from the clinical practice of other specialties. The EM Model represents essential information and

skills necessary for the clinical practice of Emergency Medicine 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 Emergency Medicine, guiding the diagnostic tests and therapeutic interventions during the entire patient encounter.

The Accreditation Council for Graduate Medical Education (ACGME) is implementing the ACGME Outcome Project to assure that physicians are appropriately trained in the knowledge and skills of their specialties. The ACGME derived 6 general (core) competencies thought to be essential for any practicing physician: patient care, medical knowledge, practice-based learning and improvement, interpersonal skills, professionalism, and systems-based practice.<sup>1</sup> The 6 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 Emergency Medicine, an Emergency Medicine Competency Task Force demonstrated how these competencies are integrated into the EM Model in Chapman, et al.<sup>2</sup>

The EM Model is designed for use as the core document for the specialty. It will provide 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 6 general 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.

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

<sup>&</sup>lt;sup>2</sup> 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 2007 EM Model Task Force Changes

#### Preamble

Replace text:

The Accreditation Council for Graduate Medical Education (ACGME) is implementing the ACGME Outcome Project to assure that physicians are appropriately trained in the knowledge and skills of their specialties. The ACGME derived 6 general (core) competencies thought to be essential for any practicing physician: patient care, medical knowledge, practice-based learning and improvement, interpersonal skills, professionalism, and systems-based practice.<sup>1</sup> [Add] *The 6 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 Emergency Medicine, an Emergency Medicine Competency Task Force demonstrated how these competencies are integrated into the EM Model in Chapman, et al.<sup>2</sup> [Delete] To incorporate these competencies fit into the EM Model. The 6 general competency Task Force determined how these competencies fit into the EM Model. The 5 general competencies are an integral part of the practice of Emergency Medicine, an Emergency Medicine these competencies fit into the EM Model. The 5 general competency Task Force determined how these competencies fit into the EM Model. The 6 general competencies are an integral part of the practice of Emergency Medicine and are embedded into the EM Model.<sup>2</sup>* 

#### Table 1

Reorder to be Table 3

#### Table 2

Add text to all three definitions
Patient presents with *signs or* symptoms of...
Add text to Lower Acuity
Patient presents with *signs or* symptoms of an illness or injury that have a low probability of *rapid* progression to...

#### Table 3

Reorder to be *Table 1* Add text to Diagnostic studies Select and perform the most appropriate diagnostic studies and interpret the results, e.g., electrocardiogram, emergency ultrasound, *radiographic* and laboratory tests.

#### Listing of Conditions and Components

- 7.2 After Hordeolum, add Keratitis Emergent and Lower Acuity
- 10.7 Change "Emerging Infections" to "Emerging Infections/Pandemics"
- 11.2 Cauda equina syndrome: add Critical
- 12.1 Add Idiopathic facial nerve paralysis before (Bell's palsy)

- 14.6 Change "Domestic" to "*Interpersonal violence*" Change "spouse" to "*intimate partner*"
- 18.1 After Traumatic iritis, add *Retrobulbar Hematoma Emergent* Cauda equina syndrome: add *Critical*

#### **Appendix 1**

Airway Techniques Change "Heimlich maneuver" to "*Foreign body removal* " Intubation Delete 1. Nasotracheal 2. Orotracheal 3. Rapid sequence

Add Capnometry Add Non-invasive ventilatory management

Diagnostic Procedures Add Compartment pressure measurement

Head and Neck

Control of epistaxis

Delete: 1. Anterior packing

2. Cautery

3. Posterior packing/Balloon placement

Change "Needle aspiration" of peritonsillar abscess to *Drainage* of peritonsillar abscess Change Tooth "replacement" to Tooth "*stabilization*" Add *Lateral canthotomy* 

Hemodynamic Techniques

Central venous access

- Delete 1. Femoral
  - 2. Jugular
  - 3. Subclavian
  - 4. Umbilical
  - 5. Venous cutdown

Obstetrics

Delivery of newborn

Delete 1. Abnormal delivery

2. Normal delivery

Other Techniques

Change "Physical restraints" to "Violent patient management/restraint" Add Procedural ultrasonography Add Escharotomy

Add new category Biohazard Decontamination

### Appendix 2

Professionalism Add Conflicts of interest management Delete Death in ED

Communication and Interpersonal Issues Add Communicating bad news

Note: In the 2007 Model of the Clinical Practice of Emergency Medicine that follows this introduction, all changes that resulted from the 2007 EM Model Task Force review appear in **bold italics** with yellow shading.

#### OVERVIEW

There are multiple components of "The Model of the Clinical Practice of Emergency Medicine." The components of the EM Model are given in two complementary documents: 1) the Matrix; and 2) the Listing of Conditions and Components.

The EM Model is a three-dimensional description of Emergency Medicine (EM) clinical practice. The three dimensions are patient acuity, physician tasks, and the listing of conditions and components. All of these dimensions are interrelated and employed concurrently by a physician when providing patient care. The EM physician's initial approach is determined by the acuity of the patient's presentation. While assessing the patient, the physician completes a series of tasks collecting information. Through this process, the physician is able to select the most likely etiology of the patient's problem from the listing of the conditions and components. Through continued application of all three components, the physician is able to arrive at the most probable diagnosis and subsequently implement a treatment plan for the patient. Hence, the three dimensions of the EM Model are interrelated and applied concurrently in the practice of Emergency Medicine.

#### **Physician Tasks**

The physician tasks include the range of activities and the dynamic nature of the practice of Emergency Medicine (Table 1). Emergency physicians simultaneously consider multiple factors involved in patient care that may alter the direction of patient management. For example, the approach to the patient can change dramatically when considering a pediatric v. a geriatric presentation of the same complaint, i.e., modifying factors. The physician tasks apply to patients of all ages. Although there are no separate sections on the care of pediatric or geriatric patients, users of the document should consider including pediatric and geriatric aspects of patient care related to each task. When considered together, these tasks are directly related to the six broad competencies expected of board certified emergency physicians.

#### **Patient Acuity**

An emergency physician's frame of reference in a patient encounter is fundamentally related to the acuity of the patient's condition. Establishing the acuity level is essential for defining the context for action, the priorities of the patient encounter, and consequently, the order of tasks necessary to manage the patient successfully. In the EM Model, patient acuity includes critical, emergent, and lower acuity (Table 2).

#### Matrix of Physician Tasks by Patient Acuity

The Matrix is organized along two principal dimensions: Patient Acuity and Physician Tasks (Table 3). The Matrix represents all possible physician-patient interactions that are determined by patient acuity and the tasks that may be performed during a patient encounter. Patient acuity is most fundamental in determining the priority and sequence of tasks necessary to successfully manage the presenting patient. The Matrix represents how an emergency physician modifies the tasks necessary to perform appropriate patient care based on the patient acuity.

Following is a concise example of how patient acuity and physician tasks can be applied to patients presenting with the same complaint of chest pain:

1. A 55-year old hypertensive diabetic male with crushing chest pain, diaphoresis, and a blood pressure of 60 systolic who is clutching his chest.

Acuity Frame: Critical

Implications: Immediate intervention is necessary to manage and stabilize vital functions. High probability of mortality exists without immediate intervention.

2. A 74-year old female with a history of angina presenting with three-to-five minutes of dull chest pain typical of her angina. She has stable vital signs and her pain is relieved by nitroglycerin.

Acuity Frame: Emergent

Implications: Initiation of monitoring, vascular access, evaluation, and treatment must be performed quickly. Progression in severity, complications, or morbidity may occur without immediate treatment.

3. A 12-year old female with non-traumatic sharp chest pain lasting for several days that intensifies with movement of the torso.

Acuity Frame: Lower acuity

Implications: Patient's symptoms should be addressed promptly. However, progression to major complications would be unlikely.

# Table 1. Physician task definitions

Pre-hospital care	Participate actively in pre-hospital care; provide direct patient care or on-line or off-line medical direction or interact with pre-hospital medical providers; assimilate information from pre-hospital 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	Communicate effectively to 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 and legal issues	Understand and apply principles of professionalism, ethics, and legal concepts pertinent to patient management.
Diagnostic studies	Select and perform the most appropriate diagnostic studies and interpret the results, e.g., electrocardiogram, emergency ultrasound, <b>radiographic</b> and laboratory tests <b>.</b>
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 appropriate pharmacotherapy, recognize pharmacokinetic properties, and anticipate drug interactions and adverse effects.
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 and disposition	Collaborate with physicians and other professionals to evaluate and treat patients, arrange appropriate placement and transfer if necessary, formulate a follow-up plan, and communicate effectively with patients, family, and involved health care 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 manner that facilitates quality care and coding.
Multi-tasking and team management	Prioritize multiple patients in the emergency department in order to provide optimal patient care; interact, coordinate, educate, and supervise all members of the patient management team; utilize appropriate hospital resources; have familiarity with disaster management.

## Table 2.

Patient acuity definitions

Critical	Emergent	Lower Acuity
Patient presents with <b>signs or</b> 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 <b>signs or</b> 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 <b>signs or</b> symptoms of an illness or injury that have a low probability of <b>rapid</b> progression to more serious disease or development of complications.

# Table 3.

Matrix of physician tasks by patient acuity

	Patient Acuity			
Physician Tasks	Critical	Emergent	Lower Acuity	
Pre-hospital care Emergency stabilization Performance of focused history and physical examination Modifying factors Professional issues Diagnostic studies Diagnosis Therapeutic interventions Pharmacotherapy Observation and reassessment Consultation and disposition Prevention and education Documentation Multi-tasking & team management				

#### LISTING OF CONDITIONS AND COMPONENTS

The Listing of Conditions and Components contains the fundamental, or core, patient conditions that present to emergency departments. The listing is 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.

**Appendix 1** outlines the diagnostic and/or therapeutic procedures or tests that are essential to the clinical practice of Emergency Medicine. Emergency physicians must know the indications for ordering, be able to perform, and be able to interpret the results of the listed items.

**Appendix 2** lists the other essential components of Emergency Medicine practice. These include such items as administration; communication and interpersonal issues; research; and risk management, legal, and regulatory issues. Emergency physicians should have a basic knowledge of these components and be able to apply them to their clinical practice.

**NOTE:** The Listing of Conditions and Components is not intended to be comprehensive. It is intended to be representative of the most frequent conditions seen and those with the most serious implications for patients presenting to the emergency department.

### Listing of Conditions and Components

		Critical	Emergent	Lower Acuity
1.0	SIGNS, SYMPTOMS, AND PRESENTATIONS			
1.1	General			
	Altered mental status	Х	Х	
	Anxiety			Х
	Apnea	Х		
	Ataxia		Х	Х
	Back pain	Х	Х	Х
	Bleeding	Х	Х	Х
	Coma	Х		
	Confusion		Х	
	Crying/Fussiness		Х	Х
	Cyanosis	Х		
	Decreased level of consciousness	Х	Х	
	Dehydration	Х	Х	
	Dizziness		Х	Х
	Edema		Х	Х
	Failure to thrive		Х	Х
	Fatigue		Х	Х
	Feeding problems			Х
	Fever	Х	Х	Х
	Hypotension	Х	Х	
	Jaundice		Х	
	Joint pain/Swelling		Х	Х
	Limp		Х	Х
	Lymphadenopathy			Х
	Malaise		Х	Х
	Multiple trauma	Х	Х	
	Needle stick		Х	Х
	Pain	Х	Х	Х
	Paralysis	Х	Х	
	Paresthesia/Dysesthesia		Х	Х
	Poisoning	Х	Х	Х
	Pruritus		Х	Х
	Rash	Х	Х	Х
	Shock	Х		
	SIDS (See 3.1)	Х		
	Sleeping problems			Х
	Syncope	Х	Х	Х
	Tremor		Х	Х
	Weakness		Х	X X X X
	Weight loss		Х	Х
1.2	Abdominal			
	Abnormal vaginal bleeding	Х	Х	Х
	Anuria		X	
	Ascites		X	Х
	Colic		X	X
	Constipation			X
	1			

		Critical	Emergent	Lower Acuity
	Cramps		X	Х
	Diarrhea		Х	Х
	Dysmenorrhea			Х
	Dysuria			Х
	Hematemesis	Х	Х	
	Hematochezia	Х	Х	Х
	Hematuria		X	X
	Nausea/Vomiting		X	X
	Pain	Х	X	X
	Pelvic pain	X	X	X
	Peritonitis	X	X	Χ
	Rectal bleeding	X	X	Х
		~	X	X
	Rectal pain		^	
	Urinary incontinence		V	Х
	Urinary retention		Х	
1.3	Chest			
	Chest pain	Х	Х	Х
	Cough		Х	Х
	Dyspnea	Х	Х	
	Hemoptysis	Х	Х	
	Hiccough			Х
	Palpitations	Х	Х	X
	Shortness of breath	X	X	
	Tachycardia	X	X	
	Wheezing	X	X	
	Wheezing	Λ	Λ	
1.4	Head and Neck			
	Congestion			Х
	Diplopia		Х	
	Dysphagia		Х	Х
	Eye pain		Х	Х
	Headache (See 12.3)	Х	Х	Х
	Loss of hearing			Х
	Loss of vision		Х	
	Rhinorrhea			Х
	Sore throat		Х	Х
	Stridor	Х	X	
	Tinnitus		- •	Х
	Vertigo		Х	X

		Critical	Emergent	Lower Acuity
2.0	ABDOMINAL AND GASTROINTESTINAL DISORDE	RS		
2.1	Abdominal Wall			
	Hernias		Х	Х
2.2	Esophagus			
	Infectious disorders		Х	х
	Candida (See 4.4, 7.5) Inflammatory disorders		^	~
	Esophagitis		Х	Х
	Gastroesophageal reflux (GERD)			Х
	Toxic effects of caustic (See 17.1) Acid	Х	Х	
	Alkali	X	X	
	Motor abnormalities			
	Spasms			Х
	Structural disorders	Х	Х	
	Boerhaave's syndrome Diverticula	~	X	х
	Foreign body		X	
	Hernias		Х	Х
	Mallory-Weiss syndrome	Х	Х	
	Stricture and stenosis	V	X	Х
	Tracheoesophageal fistula Varices	X X	X X	
	Tumors	~	X	Х
2.3	Liver			
	Cirrhosis		Х	Х
	Alcoholic		Х	Х
	Biliary obstructive		X	
	Drug-induced Hepato-renal failure	Х	X X	Х
	Infectious disorders	~	X	Х
	Abscess		X	X
	Hepatitis			
	Acute		Х	Х
	Chronic		X	X
	Tumors		Х	Х
2.4	Gall Bladder and Biliary Tract			
	Cholangitis	Х	X	
	Cholecystitis Cholelithiasis/Choledocholithiasis		X X	х
	Tumors		X	x
2.5	Pancreas			
2.0	Pancreatitis	Х	Х	
	Tumors		X	Х

		Critical	Emergent	Lower Acuity
2.6	Peritoneum	V	V	
	Spontaneous bacterial peritonitis	Х	Х	
2.7	Stomach			
	Infectious disorders			Х
	Inflammatory disorders			
	Gastritis		Х	Х
	Peptic ulcer disease	X	X	Х
	Hemorrhage	Х	X	
	Perforation Structural disorders	Х	Х	
	Congenital hypertrophic pyloric stenosis		Х	
	Foreign body		X	Х
	Tumors		X	X
			X	X
2.8	Small Bowel			
	Infectious disorders		Х	Х
	Inflammatory disorders			
	Regional enteritis/Crohn's disease		Х	Х
	Motor abnormalities			
	Obstruction		X	
	Paralytic ileus		Х	
	Structural disorders Aortoenteric fistula	х		
	Congenital anomalies	^	х	Х
	Intestinal malabsorption		x	X
	Meckel's diverticulum		X	X
	Tumors		X	X
	Vascular insufficiency	Х	X	
~ ~				
2.9	Large Bowel Infectious disorders			
	Antibiotic associated		Х	
	Bacterial		X	Х
	Parasitic		X	X
	Viral		X	X
	Inflammatory disorders			
	Acute appendicitis		Х	
	Necrotizing enterocolitis (NEC)	Х	Х	
	Radiation colitis		Х	
	Ulcerative colitis		Х	Х
	Motor abnormalities			
	Hirschsprung's disease		Х	Х
	Irritable bowel			Х
	Obstruction		Х	
	Structural disorders		V	$\mathbf{v}$
	Congenital anomalies Diverticula		X X	X X
	Intussusception	Х	X	Λ
	Volvulus	X	X	
	volvalao	~	~	

	Critical	Emergent	Lower Acuity
Tumors		Х	Х
2.10 Rectum and Anus			
Infectious disorders			
Perianal/Anal abscess		Х	Х
Perirectal abscess		X	Λ
		x	х
Pilonidal cyst and abscess		Λ	^
Inflammatory disorders			V
Proctitis			Х
Structural disorders			
Anal fissure			Х
Anal fistula		Х	Х
Congenital anomalies			Х
Foreign body		Х	Х
Hemorrhoids			Х
Rectal prolapse		Х	
Tumors		Х	Х
2.11 <b>Spleen</b>	Х	Х	х
2.11 Spleen	^	^	^

		Critical	Emergent	Lower Acuity
3.0 <b>C</b>	CARDIOVASCULAR DISORDERS			
3.1	Cardiopulmonary Arrest	Х		
	SIDS (See 1.1)	X		
3.2	Congenital Abnormalities of the Cardiovascular	System		
0.2	Disorders due to anatomic anomalies	X	Х	Х
	Genetically transmitted disorders	X	X	X
3.3	Disorders of Circulation			
0.0	Arterial			
	Aneurysm	Х	Х	Х
	Aortic dissection	Х		
	Thromboembolism	Х	Х	
	Venous			
	Thromboembolism (See 16.6)	Х	Х	
3.4	Disturbances of Cardiac Rhythm			
0.4	Cardiac dysrhythmias	Х	Х	Х
	Ventricular	X	X	Λ
	Supraventricular	X	X	Х
	Conduction disorders	X	X	X
	Conduction disorders	~	~	~
3.5	Diseases of the Myocardium, Acquired			
	Cardiac failure	Х	Х	
	Cor pulmonale	Х	Х	
	High output	Х	Х	
	Low output	Х	Х	
	Cardiomyopathy	Х	Х	Х
	Hypertrophic	Х	Х	Х
	Congestive heart failure	Х	Х	
	Coronary syndromes	Х	Х	
	Ischemic heart disease	Х	Х	
	Myocardial infarction	Х	Х	
	Myocarditis	Х	Х	Х
	Ventricular aneurysm	Х	Х	Х
3.6	Diseases of the Pericardium			
	Pericardial tamponade (See 18.1)	Х	Х	
	Pericarditis		X	Х
3.7	Endocarditis	Х	х	
3.8	Hypertension	х	Х	Х
3.9	Tumors	Х	Х	
_				
3.10	Valvular Disorders	Х	Х	Х

	Critical	Emergent	Lower Acuity
4.0 CUTANEOUS DISORDERS			
4.1 <b>Cancers of the Skin</b> Basal cell Kaposi's sarcoma Melanoma Squamous cell			X X X X
4.2 Decubitus Ulcer		Х	Х
4.3 <b>Dermatitis</b> Atopic Contact Eczema Psoriasis Sebaceous cyst Seborrhea			X X X X X X
4.4 Infections Bacterial Abscess Cellulitis Erysipelas Impetigo Necrotizing infection Fungal Candida (See 2.2, 7.5) Tinea Parasitic Pediculosis infestation Scabies Viral Aphthous ulcers Erythema infectiosum Herpes simplex (See 10.6, 13.1) Herpes zoster (See 10.6) Human papillomavirus (HPV) (See 13.1) Molluscum contagiosum Warts	X	X X X X	X X X X X X X X X X X X X X X X X X X
4.5 <b>Maculopapular Lesions</b> Erythema multiforme Erythema nodosum Henoch-Schönlein purpura (HSP) Pityriasis rosea Purpura Urticaria		x x x x	X X X X X

		Critical	Emergent	Lower Acuity
4.6	Papular/Nodular Lesions Hemangioma/Lymphangioma Lipoma			X X
4.7	Vesicular/Bullous Lesions			
	Pemphigus		Х	
	Staphylococcal scalded skin syndrome	Х	Х	
	Stevens-Johnson syndrome	Х	Х	
	Toxic epidermal necrolysis	Х	Х	

		Critical	Emergent	Lower Acuity
5.0	ENDOCRINE, METABOLIC, AND NUTRITIONAL DIS	SORDERS		
5.1	Acid-base Disturbances			
	Metabolic or respiratory			
	Acidosis	Х	Х	
	Alkalosis	Х	Х	Х
	Mixed acid-base balance disorder	Х	Х	
5.2	Adrenal Disease			
	Corticoadrenal insufficiency	Х	Х	
	Cushing's syndrome		Х	Х
5.3	Fluid and Electrolyte Disturbances			
	Calcium metabolism	Х	Х	Х
	Fluid overload/Volume depletion	Х	Х	
	Hyperkalemia/Hypokalemia	Х	Х	Х
	Hypernatremia/Hyponatremia	Х	Х	Х
	Magnesium metabolism		Х	Х
	Phosphorus metabolism		Х	Х
5.4	Glucose Metabolism			
	Diabetes mellitus			
	Type I	Х	Х	Х
	Type II		Х	Х
	Complications in glucose metabolism			
	Diabetic ketoacidosis (DKA)	Х	Х	
	Hyperglycemia		Х	Х
	Hyperosmolar coma	Х	Х	
	Hypoglycemia	Х	Х	
	Systemic		Х	Х
5.5	Nutritional Disorders			
	Vitamin deficiencies			Х
	Vitamin excess			Х
	Wernicke-Korsakoff syndrome		Х	
5.6	Parathyroid Disease		Х	Х
5.7	Dituitory Disordoro		Х	х
5.7	Pituitary Disorders Panhypopituitarism		×	~
5.8	Thyroid Disorders			
0.0	Hyperthyroidism	х	Х	Х
	Hypothyroidism	X	X	X
	Thyroiditis	X	X	X
5.9	Tumors of Endocrine Glands			
5.5	Adrenal		Х	Х
	Pituitary		X	X
	Thyroid		X	X
	<b>,</b>			

		Critical	Emergent	Lower Acuity
6.0	ENVIRONMENTAL DISORDERS			
6.1	Bites and Envenomation (See 18.1)			
	Arthropods		Х	Х
	Insects			Х
	Spiders		Х	Х
	Mammals		Х	Х
	Marine organisms (See 17.1)	Х	X	Х
	Snakes	Х	Х	Х
6.2	Dysbarism			
	Air embolism	Х	Х	
	Barotrauma	Х	Х	Х
	Decompression syndrome	Х	Х	
6.3	Electrical Injury (See 18.1)	Х	Х	Х
0.0	Lightning	X	X	Χ
	Lightining	X	X	
6.4	High-altitude Illness			
	Acute mountain sickness		Х	Х
	Barotrauma of ascent		Х	Х
	High-altitude cerebral edema	Х	Х	
	High-altitude pulmonary edema	Х	Х	
6.5	Submersion Incidents			
	Cold water immersion	Х	Х	
	Near drowning	Х	Х	
6.6	Temperature-related Illness			
0.0	Heat			
	Heat exhaustion		Х	Х
	Heat stroke	Х		
	Cold			
	Frostbite		Х	Х
	Hypothermia	Х	Х	
6.7	Radiation Emergencies	Х	х	Х

	Critical	Emergent	Lower Acuity
7.0 HEAD, EAR, EYE, NOSE, THROAT DISORDERS			
7.1 <b>Ear</b>			
Foreign body		Х	Х
Impacted cerumen			Х
Labyrinthitis			Х
Mastoiditis		Х	V
Meniere's disease			X
Otitis externa Infective			X X
Malignant		Х	~
Otitis media		X	Х
Perforated tympanic membrane (See 18.1)		Λ	X
r chorated tympanic memorane (eee 10.1)			A
7.2 <b>Eye</b>			
External eye			V
Blepharitis Burn confined to eye and adnexa (See 18.1)		х	Х
Conjunctivitis		~	Х
Corneal abrasions (See 18.1)		Х	X
Dacryocystitis		X	X
Disorders of lacrimal system		~	X
Foreign body		Х	X
Inflammation of the eyelids			X
Chalazion			Х
Hordeolum			Х
Keratitis		X	X
Anterior pole			
Glaucoma		Х	Х
Hyphema (See 18.1)		Х	Х
Iritis (See 18.1)		Х	Х
Posterior pole		Ň	
Choroiditis/Chorioretinitis		X	
Optic neuritis	V	X	
Papilledema	Х	X	
Retinal detachments and defects (See 18.1) Retinal vascular occlusion		X X	
Orbit		~	
Cellulitis			
Preseptal		Х	
Postseptal		x	
Purulent endophthalmitis		X	
7.3 Cavernous Sinus Thrombosis	х	Х	
7.4 <b>Nose</b>			
Epistaxis	Х	Х	Х
Foreign body	~	X	X
Rhinitis		~	X
Sinusitis			X
			· ·

	Critical	Emergent	Lower Acuity
7.5 Oropharynx/Throat			
Dentalgia			Х
Diseases of the oral soft tissue			
Ludwig's angina	Х	Х	
Stomatitis			Х
Diseases of the salivary glands			
Sialolithiasis		Х	Х
Suppurative parotitis		Х	
Foreign body	Х	Х	
Gingival and periodontal disorders			
Gingivostomatitis			Х
Larynx/Trachea			
Epiglottitis (See 16.1)	Х	Х	
Laryngitis			Х
Tracheitis		Х	Х
Oral candidiasis (See 2.2, 4.4)			Х
Periapical abscess		Х	Х
Peritonsillar abscess		Х	
Pharyngitis/Tonsillitis			Х
Retropharyngeal abscess	Х	Х	
Temporomandibular joint disorders			Х
7.6 Tumors		Х	Х

		Critical	Emergent	Lower Acuity
8.0 HEMATOLOGIC DISORDER	RS			
8.1 Blood Transfusion				
Complications		Х	Х	
8.2 Hemostatic Disorders				
Coagulation defects		Х	Х	Х
Acquired		Х	Х	Х
Hemophilias		Х	Х	Х
Disseminated intravasc	ular coagulation	Х		
Platelet disorders		Х	Х	Х
Thrombocytopenia			Х	Х
8.3 Lymphomas			Х	Х
8.4 Pancytopenia		Х	Х	
8.5 Red Blood Cell Disorders				
Anemias				
Aplastic		Х	Х	
Hemoglobinopathies			Х	Х
Sickle cell disea	se		Х	Х
Hemolytic			Х	
Hypochromic				
Iron deficiency			Х	Х
Megaloblastic			Х	Х
Polycythemia			X	Х
Methemoglobinemia (Se	ee 17.1)	Х	Х	
8.6 White Blood Cell Disorde	'S			
Leukemia			Х	Х
Multiple myeloma			Х	Х
Leukopenia			Х	Х

		Critical	Emergent	Lower Acuity
9.0	IMMUNE SYSTEM DISORDERS			
9.1	Collagen Vascular Disease Raynaud's disease Reiter's syndrome Rheumatoid arthritis (See 11.3) Scleroderma Systemic lupus erythematosus Vasculitis		X X X X X	X X X X X X
9.2	HIV and Manifestations (See 10.6)	Х	Х	х
9.3	Hypersensitivity Allergic reaction Anaphylaxis Angioedema Drug allergies	X X X	X X X	X X
9.4	Kawasaki Syndrome		Х	
9.5	Sarcoidosis		Х	Х
9.6	Transplant-related Problems Immunosuppression Rejection	x x	X X X	X X
9.7	Rheumatic Fever		Х	Х

	Critical	Emergent	Lower Acuity
10.0 SYSTEMIC INFECTIOUS DISORDERS			
10.1 Bacterial			
Bacterial food poisoning		Х	Х
Botulism	Х	Х	
Chlamydia		Х	Х
Gonococcal infections		Х	Х
Meningococcemia	Х	Х	
Mycobacterial infections			
Atypical mycobacteria		Х	Х
Tuberculosis		Х	Х
Other bacterial diseases	Х	X	
Gas gangrene (See 11.6)	X	X	
Sepsis/Bacteremia	X	X	
Shock	X	~	
Systemic inflammatory response	Λ		
syndrome (SIRS)	Х	Х	
Toxic shock syndrome	X	X	
Spirochetes	Λ	Λ	
Syphilis		Х	Х
Tetanus	х	X	Λ
Tetanus	~	Χ.	
10.2 Biologic Weapons	Х	Х	
10.3 Fungal Infections		Х	х
10.4 Protozoan/Parasites			
Malaria		Х	
Toxoplasmosis		Х	Х
10.5 Tick-borne			
Ehrlichiosis		Х	
Lyme disease		X	
Rocky Mountain spotted fever		Х	
10.6 Viral		Х	Х
Infectious mononucleosis		x	X
Influenza/Parainfluenza		X	X
	V		Λ
Hantavirus	Х	X	V
Herpes simplex (See 4.4, 13.1)		X	X
Herpes zoster/Varicella (See 4.4)	. /	X	Х
HIV (See 9.2)	Х	Х	Х
Rabies	Х		
Roseola			Х
Rubella			Х
10.7 Emerging Infections/Pandemics	Х	Х	

	Critical	Emergent	Lower Acuity
11.0 MUSCULOSKELETAL DISORDERS (NONTRAUM	ATIC)		
11.1 <b>Bony Abnormalities</b> Aseptic necrosis of hip Osteomyelitis Tumors		X X X	x x
11.2 <b>Disorders of the Spine</b> Disc disorders Inflammatory spondylopathies Low back pain Cauda equina syndrome (See 18.1) Sacroiliitis Sprains/Strains	×	x x x	x x x x
11.3 <b>Joint Abnormalities</b> Arthritis Septic Gout Rheumatoid (See 9.1) Juvenile Osteoarthrosis Congenital dislocation of the hip Slipped capital femoral epiphysis		X X X X	X X X X X
11.4 <b>Muscle Abnormalities</b> Myalgia/Myositis Rhabdomyolysis	Х	Х	x
11.5 <b>Overuse Syndromes</b> Bursitis Muscle strains Peripheral nerve syndrome Carpal tunnel syndrome Tendonitis			X X X X X
11.6 <b>Soft Tissue Infections</b> Fasciitis Felon Gangrene (See 10.1) Paronychia Synovitis/Tenosynovitis	х	X X X X X	X X

10.0		Critical	Emergent	Lower Acuity
12.0	NERVOUS SYSTEM DISORDERS			
12.1	Cranial Nerve Disorders Idiopathic facial nerve paralysis (Bell's palsy) Trigeminal neuralgia			X X X
12.2	Demyelinating Disorders Multiple sclerosis	Х	X X	х
12.3	<b>Headache</b> (See 1.4) Muscle contraction Vascular	Х	x x	X X X
12.4	Hydrocephalus Normal pressure VP shunt		X X X	X X
12.5	Infections/Inflammatory Disorders Encephalitis Intracranial and intraspinal abscess Meningitis	X X	X X	
	Bacterial Viral Myelitis Neuralgia/Neuritis	X	X X X	x x
12.6	Movement Disorders Dystonic reaction		X X	X X
12.7	<b>Neuromuscular Disorders</b> Guillain-Barré syndrome Myasthenia gravis Peripheral neuropathy	X X	X X X	Х
12.8	Other Conditions of the Brain Dementia (See 14.5) Parkinson's disease Pseudotumor cerebri		х	X X X
12.9	<b>Seizure Disorders</b> Febrile Neonatal Status epilepticus	x x	X X X	X X
12.10	Spinal Cord Compression	х	Х	
12.11	Stroke Hemorrhagic Intracerebral Subarachnoid	X X	X X	

	Critical	Emergent	Lower Acuity
Ischemic			
Embolic	Х	Х	
Thrombotic	Х	Х	
12.12 Transient Cerebral Ischemia		Х	Х
12.13 <b>Tumors</b>		Х	Х

	Critical	Emergent	Lower Acuity
13.0 OBSTETRICS AND GYNECOLOGY			
13.1 Female Genital Tract			
Cervix			
Cervicitis and endocervicitis		Х	Х
Tumors			Х
Infectious disorders			
Pelvic inflammatory disease		Х	
Fitz-Hugh-Curtis syndrome		Х	
Tubo-ovarian abscess		Х	
Lesions			
Herpes simplex (See 4.4, 10.6)			Х
Human papillomavirus (HPV) (See 4.4)			Х
Ovary			
Cyst			Х
Torsion		Х	
Tumors		Х	Х
Uterus			
Dysfunctional bleeding		Х	Х
Endometriosis			Х
Prolapse			Х
Tumors		Х	Х
Gestational trophoblastic disease		Х	
Leiomyoma			Х
Vagina and vulva			
Bartholin's abscess		Х	
Foreign body		Х	Х
Vaginitis/Vulvovaginitis			Х
13.2 Normal Pregnancy			Х
13.3 Complications of Pregnancy			
Abortion		Х	
Ectopic pregnancy	Х	X	
Hemolysis, elevated liver enzymes,	~	~	
low platelets (HELLP) syndrome	Х	Х	
Hemorrhage, antepartum	Х	Λ	
Abruptio placentae (See 18.2)	Х	Х	
Placenta previa	X	X	
Hyperemesis gravidarum	Х	X	Х
Hypertension complicating pregnancy		X	X
Eclampsia	Х	X	Χ
Preeclampsia		X	
Infections		X	
Rh isoimmunization		X	
		~	
13.4 High-risk Pregnancy	Х	Х	
13.5 Normal Labor and Delivery		Х	Х

	Critical	Emergent	Lower Acuity
13.6 Complications of Labor			
Fetal distress	Х		
Premature labor (See 18.2)		Х	
Premature rupture of membranes		Х	
Rupture of uterus (See 18.2)	Х		
13.7 Complications of Delivery			
Malposition of fetus	Х	Х	
Nuchal cord	Х		
Prolapse of cord	Х		
13.8 Postpartum Complications			
Endometritis		Х	
Hemorrhage	Х	Х	
Mastitis		Х	Х

_	Critical	Emergent	Lower Acuity
14.0 PSYCHOBEHAVIORAL DISORDERS			
14.1 Addictive Behavior			
Alcohol dependence			Х
Drug dependence			Х
Eating disorders		Х	Х
Substance abuse			Х
14.2 Mood Disorders and Thought Disorders			
Acute Psychosis	Х	Х	
Bipolar disorder		Х	Х
Depression		Х	Х
Suicidal risk	Х	Х	
Grief reaction			Х
Schizophrenia		Х	Х
14.3 Factitious Disorders			
Drug-seeking behavior			Х
Munchausen syndrome/Munchausen by proxy		Х	Х
14.4 Neurotic Disorders			
Anxiety/Panic			Х
Obsessive compulsive			Х
Phobic			Х
Post-traumatic stress			Х
14.5 Organic Psychoses			
Chronic organic psychotic conditions			Х
Alcoholic psychoses		Х	Х
Drug psychoses		Х	Х
Delirium		Х	
Dementia (See 12.8)			Х
Intoxication and/or withdrawal (See 17.1)			
Alcohol	Х	Х	Х
Hallucinogens		X	Х
Opioids	Х	Х	Х
Phencyclidine		Х	
Sedatives/Hypnotics/Anxiolytics	Х	Х	X
Sympathomimetics and cocaine	Х	Х	Х
14.6 Patterns of Violence/Abuse/Neglect			
Interpersonal violence		N.	
Child, <b>intimate partner</b> , elder	N/	X	
Homicidal Risk	Х	X	
Sexual assault		X	
Staff/Patient safety		Х	
14.7 Personality Disorders			Х

	Critical	Emergent	Lower Acuity
14.8 Psychosomatic Disorders			
Hypochondriasis			Х
Hysteria/Conversion			Х

	Critical	Emergent	Lower Acuity
15.0 RENAL AND UROGENITAL DISORDERS			
15.1 Acute and Chronic Renal Failure	Х	Х	Х
15.2 Complications of Renal Dialysis	Х	Х	
15.3 Glomerular Disorders			
Glomerulonephritis		Х	Х
Nephrotic syndrome		Х	Х
15.4 Infection			
Cystitis			Х
Pyelonephritis		Х	
Urinary tract infection (UTI)			Х
15.5 Male Genital Tract			
Genital lesions			Х
Hernias		Х	X
Inflammation/Infection			
Balanitis/Balanoposthitis		Х	Х
Epididymitis/Orchitis		Х	Х
Gangrene of the scrotum			
(Fournier's gangrene)	Х	Х	
Prostatitis		Х	X
Urethritis			Х
Structural Berenhimosia/Phimosia		Х	
Paraphimosis/Phimosis Priapism		X	
Prostatic hypertrophy (BPH)		~	Х
Torsion of testis		Х	X
Testicular masses			Х
Tumors			
Prostate			Х
Testis			Х
15.6 Nephritis		Х	Х
Hemolytic uremic syndrome		X	~
15.7 Structural Disorders			
Calculus of urinary tract		Х	Х
Obstructive uropathy		X	
Polycystic kidney disease		-	Х
15.8 <b>Tumors</b>			х

	Critical	Emergent	Lower Acuity
16.0 THORACIC-RESPIRATORY DISORDERS			
16.1 Acute Upper Airway Disorders			
Infections			
Croup		Х	
Epiglottitis (See 7.5)	X	Х	
Pertussis/Whooping cough	Х	Х	N/
Upper respiratory infection	Ň		Х
Obstruction	Х	Ň	
Tracheostomy/Complications	Х	Х	
16.2 Disorders of Pleura, Mediastinum, and Chest Wall			
Costochondritis			Х
Mediastinitis	Х	Х	
Pleural effusion		Х	Х
Pleuritis			Х
Pneumomediastinum		Х	
Pneumothorax (See 18.1)			
Simple		Х	
Tension	Х		
16.3 Noncardiogenic Pulmonary Edema	х	Х	
16.4 Obstructive/Restrictive Lung Disease			
Asthma/Reactive airway disease	Х	Х	
Bronchitis and bronchiolitis		Х	Х
Bronchopulmonary dysplasia		Х	Х
Chronic obstructive pulmonary disease	Х	Х	Х
Cystic fibrosis	Х	Х	Х
Environmental/Industrial exposure	Х	Х	Х
Foreign body	Х	Х	
16.5 Physical and Chemical Irritants/Insults			
Pneumoconiosis		Х	Х
Toxic effects of gases, fumes, vapors			
(See 18.1)	Х	Х	Х
16.6 Pulmonary Embolism/Infarct			
Septic emboli	Х	Х	
Venous thromboembolism (See 3.3)	Х	Х	
16.7 Pulmonary Infections			
Lung abscess		Х	
Pneumonia			
Aspiration	Х	X	
Atypical		Х	
Bacterial	Х	X	
Chlamydia	N/	X	
Fungal	Х	X	
Mycoplasmal		Х	Х

	Critical	Emergent	Lower Acuity
Viral	Х	Х	Х
Pulmonary tuberculosis		Х	
16.8 <b>Tumors</b>			
Breast			Х
Chest wall			Х
Pulmonary		Х	Х

	Critical	Emergent	Lower Acuity
17.0 TOXICOLOGIC DISORDERS			
17.1 Drug and Chemical Classes			
Analgesics			
Acetaminophen		Х	
Nonsteroidal anti-inflammatories			
(NSAIDS)		Х	Х
Opiates and related narcotics	Х	Х	
Salicylates	Х	Х	
Alcohol			
Ethanol	Х	Х	Х
Glycol	Х	Х	
Isopropyl	Х	Х	Х
Methanol	Х	Х	
Anesthetics	Х	Х	
Anticholinergics/Cholinergics	Х	Х	
Anticoagulants	Х	Х	
Anticonvulsants	Х	Х	
Antidepressants	Х	Х	
Antiparkinsonism drugs		Х	
Antihistamines and antiemetics	N/	X	
Antipsychotics	Х	X	
Bronchodilators	N/	X	
Carbon monoxide	Х	Х	
Cardiovascular drugs	V	X	
Antiarrhythmics	X	X	
Digitalis	Х	X	
Antihypertensives	X X	X	
Beta blockers	X X	X X	
Calcium channel blockers	^	^	
	V	V	
Acid Alkali	X X	X X	
Cocaine	X	X	Х
Cyanides, hydrogen sulfide	X	x	Λ
Hallucinogens	Λ	x	Х
Hazardous materials	Х	X	Λ
Heavy metals	X	X	
Herbicides, insecticides, and rodenticides	X	X	
Household/Industrial chemicals	X	X	Х
Hormones/Steroids	Λ	X	X
Hydrocarbons	Х	X	Χ
Hypoglycemics/Insulin	X	X	
Inhaled toxins	X	X	
Iron	X	X	
Isoniazid	X	X	
Marine toxins (See 6.1)	X	X	Х
Methemoglobinemia (See 8.5)	X	X	
Mushrooms/Poisonous plants	X	X	
Neuroleptics	X	X	
I			

	Critical	Emergent	Lower Acuity
Non-prescription drugs		Х	Х
Organophosphates	Х	Х	
Recreational drugs	Х	Х	Х
Sedatives/Hypnotics	Х	Х	
Stimulants/Sympathomimetics	Х	Х	
Strychnine	Х	Х	
Lithium	Х	Х	Х

	Critical	Emergent	Lower Acuity
18.0 TRAUMATIC DISORDERS		~	i
18.1 Trauma			
Abdominal trauma			
Diaphragm	Х	Х	
Hollow viscus	X	X	
Penetrating	x	X	
Retroperitoneum	x	X	
Solid organ	X	X	
Vascular	X	X	
Chest trauma			
Aortic dissection/Disruption	Х		
Contusion			
Cardiac	Х	Х	Х
Pulmonary	X	X	
Fracture			
Clavicle		Х	Х
Ribs/Flail chest	Х	X	X
Sternum		X	X
Hemothorax	Х	X	
Penetrating chest trauma	X	X	
Pericardial tamponade (See 3.6)	X		
Pneumothorax (See 16.2)			
Simple		Х	
Tension	Х		
Cutaneous injuries			
Avulsions		Х	Х
Bite wounds (See 6.1)		Х	Х
Burns			
Electrical (See 6.3)	Х	Х	Х
Chemical (See 16.5)	Х	Х	Х
Thermal	Х	Х	Х
Lacerations		Х	Х
Puncture wounds		Х	Х
Facial fractures			Х
Dental		Х	X X
Le Fort	Х	Х	Х
Mandibular		Х	Х
Orbital		Х	Х
Genitourinary trauma			
Bladder		Х	
External genitalia		Х	
Renal		Х	Х
Ureteral		Х	
Head trauma			
Intracranial injury	Х	X	N/
Scalp lacerations/Avulsions		X	X
Skull fractures		Х	Х
Injuries of the spine	N/	N/	
Dislocations/Subluxations	Х	Х	

	Critical	Emergent	Lower Acuity
Fractures	Х	Х	Х
Sprains/Strains			Х
Lower extremity bony trauma			
Dislocations/Subluxations		Х	
Fractures (open and closed)		Х	Х
Neck trauma			
Laryngotracheal injuries	Х	Х	
Penetrating neck trauma	Х	Х	
Vascular injuries			
Carotid artery	Х	Х	
Jugular vein	Х	Х	
Ophthalmologic trauma			
Corneal abrasions/Lacerations			
(See 7.2)		Х	Х
Corneal burns			
Acid		Х	
Alkali		Х	
Ultraviolet		Х	Х
Eyelid lacerations		Х	
Foreign body		Х	
Hyphema (See 7.2)		X	
Lacrimal duct injuries		X	
Penetrating globe injuries		X	
Retinal detachments (See 7.2)		X	
Traumatic iritis (See 7.2)		X	Х
Retrobulbar Hematoma		X	X
Otologic trauma		~	
Hematoma		Х	Х
Perforated tympanic membrane (See 7.1)		Χ	X
Pediatric fractures			Λ
Epiphyseal		х	х
Greenstick		X	Λ
		^	V
Torus Delvie fracture	V	V	Х
Pelvic fracture	Х	Х	
Soft-tissue extremity injuries		V	
Amputations/Replantation		X	
Compartment syndromes		X	
High-pressure injection		Х	
Injuries to joints		Х	Х
Knee		Х	Х
Penetrating		Х	
Penetrating soft-tissue		Х	Х
Periarticular			Х
Sprains and strains			Х
Tendon injuries			
Lacerations/Transections		Х	
Ruptures		Х	
Achilles tendon		Х	
Patellar tendon		Х	
Vascular injuries	Х	X	
Spinal cord and nervous system trauma	-	-	

	Critical	Emergent	Lower Acuity
Cauda equina syndrome (See 11.2)	X	X	
Injury to nerve roots		Х	Х
Peripheral nerve injury		Х	Х
Spinal cord injury	Х	Х	
Spinal cord injury without			
radiologic abnormality (SCIWORA)		Х	
Upper extremity bony trauma			
Dislocations/Subluxations		Х	
Fractures (open and closed)		Х	Х
18.2 Trauma in Pregnancy			
Abruptio placentae (See 13.3)	Х	Х	
Perimortem C-section	Х		
Premature labor (See 13.6)		Х	
Rupture of uterus (See 13.6)	Х		
18.3 Multi-system Trauma	Х	Х	
Blast injury	Х	Х	

#### APPENDIX 1.

Procedures and Skills Integral to the Practice of Emergency Medicine

#### Airway Techniques

Airway adjuncts Cricothyrotomy *Foreign body removal* Intubation Mechanical ventilation Percutaneous transtracheal ventilation *Capnometry Non-invasive ventilatory management* 

#### Anesthesia

Local Regional nerve block Sedation - analgesia for procedures

#### Blood, Fluid, and Component Therapy Administration

#### **Diagnostic Procedures**

Anoscopy Arthrocentesis Bedside ultrasonography Cystourethrogram Lumbar puncture Nasogastric tube Paracentesis Pericardiocentesis Peritoneal lavage Slit lamp examination Thoracentesis Tonometry **Compartment pressure measurement** 

#### **Genital/Urinary**

Bladder catheterization

- Foley catheter
   Suprapubic
- Testicular detorsion

Head and Neck Control of epistaxis Laryngoscopy Drainage of peritonsillar abscess Removal of rust ring Tooth stabilization Lateral canthotomy

#### Hemodynamic Techniques Arterial catheter insertion

Central venous access Intraosseous infusion Peripheral venous cutdown

**Obstetrics** Delivery of newborn

#### **Other Techniques**

Excision of thrombosed hemorrhoids Foreign body removal Gastric lavage Gastrostomy tube replacement Incision/Drainage Pain management (See Anesthesia) *Violent patient management/restraint* Sexual assault examination Trephination, nails Wound closure techniques Wound management *Procedural ultrasonography* 

# Escharotomy

**Resuscitation** Cardiopulmonary resuscitation (CPR) Neonatal resuscitation

#### **Skeletal Procedures**

Fracture/Dislocation immobilization techniques Fracture/Dislocation reduction techniques Spine immobilization techniques

#### Thoracic

Cardiac pacing 1. Cutaneous 2. Transvenous Defibrillation/Cardioversion Thoracostomy Thoracotomy

#### **Universal Precautions**

**Biohazard Decontamination** 

#### APPENDIX 2.

Other Components of the Practice of Emergency Medicine

#### ADMINISTRATION

#### **Contract Principles**

Analysis of Clauses and Components Employment v. Independent Contractor Negotiation

#### **Financial Issues**

Budget and Planning Cost Containment Reimbursement Issues, Billing, and Coding

#### Operations

Department Administration Documentation Facility Design Human Resource Management Information Management Patient Throughput and Crowding Policies and Procedures Safety and Security

#### **Performance Improvement**

Customer Satisfaction and Service Patient Safety and Error Reduction Practice Guidelines

#### **Pre-hospital Care**

Administration, Management, and Operations Credentialing of Providers Direct Patient Care Multi-casualty Incidents Performance Improvement Protocol Development

#### Professionalism Conflicts of interest management

Ethics Impairment Leadership (Leading, Directing, and Mentoring) Personal Well-being Professional Development and Lifelong Learning

#### Systems-based Management

Managed Care

Emergency Preparedness and Disaster Management End-of-Life Issues

#### COMMUNICATION AND INTERPERSONAL ISSUES

Complaint Management Conflict Resolution Interdepartmental and Medical Staff Relations Team Building Teaching Communicating bad news

#### RESEARCH

Evidence-based Medicine Interpretation of Medical Literature Performance of Research

#### **RISK MANAGEMENT, LEGAL, AND REGULATORY ISSUES**

Accreditation Compliance Confidentiality Consent and Refusal of Care Emergency Medical Treatment and Active Labor Act (EMTALA) Liability and Malpractice Reporting (Assault, Communicable Diseases, National Practitioner Data Bank, etc.) Risk Management

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Dr. LaDuca made substantial intellectual contributions to the EM Model stemming from his many years of research and thinking about the contextual framework of professionals in practice.

Core Content Task Force II thanks the seven emergency physicians who assisted the Task Force in pilot testing the national survey used to validate this study. Their input to the process was extremely valuable. In addition, a very special thanks to the 1,084 ABEM diplomates who participated in the national survey during a very busy time of the year; their responses and comments were helpful in finalizing this document.

The following individuals also made contributions to the 2007 EM Model:

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With special appreciation to Susan M. Dunsmore, Administrative Assistant, ABEM, for support in developing and maintaining the EM Model.

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