2022 Model of the Clinical Practice of Emergency Medicine


The 2022 EM Model Task Force conducted the ninth review of the EM Model. Their work is built on the original 2001 EM Model and its subsequent revisions. The 2022 EM Model is published online in the June 2023 Journal of Emergency Medicine.

All changes that resulted from the 2022 EM Model Task Force are summarized in Figure 1. The three dimensions, as revised in 2022, are presented in Tables 1-4.

Preamble of the Core Content Task Force II, Adapted for the 2022 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, these revisions had yet to have 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. Subsequently, they 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. The 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...
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 decided 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 were incorporated into the EM Model. The complete 2016 EM Model was published online in the March 2017 Journal of Emergency Medicine.

The eighth review of the EM Model occurred in 2019. The 2019 EM Model Review Task Force recommendations were approved by the collaborating organizations and were incorporated into the EM Model. The full 2019 EM Model was published online in the May 2020 Journal of Emergency Medicine.

The ninth review of the EM Model occurred in 2022, with the addition of an eighth collaborating organization, American Academy of Emergency Medicine/Resident Student Association. The collaborating organizations approved the 2022 EM Model Task Force recommendations and are incorporated into this document. The full 2022 EM Model was published online in the June 2023 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 ensure 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.¹ 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.²

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 evaluating physician performance and curriculum design to further refine and improve the education and training of competent emergency physicians.

The 2022 review of the EM Model resulted in significant changes and clarifications, including expansion of the ultrasound section of Category 19, Procedures and Skills Integral to the Practice of Emergency Medicine. Additionally, Category 20, Other Core Competencies of the Practice of Emergency Medicine, was significantly revised to provide more clarity regarding patient-centered care. The complete updated 2022 EM Model can be found on the websites of each of the eight 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
Summary of 2022 EM Model Task Force Changes

Table 1. Matrix of physician tasks by patient acuity

Changed Team management to Physician-led team leadership and management

Changed Patient-centered communication skills to Interpersonal and patient-centered communication skills

Table 3. Physician task definitions

Added “race” to the definition of Modifying factors

Changed Team management to Physician-led team leadership and team management; changed definition to: Function as team leaders in support of physician-led teams. Provide appropriate supervision of nurse practitioners and physician assistants in team-based care. Coordinate, educate, or supervise members of the patient management team and utilize appropriate hospital resources.

Changed Patient-centered communication skills to Interpersonal and patient-centered communication skills; changed definition to: Establish rapport with and demonstrate empathy toward patients and their families; listen effectively to and build trust with patients and their families. Identify situations that require individualized communication or shared decision-making, such as goals of care, end of life care, and palliative options.

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

<table>
<thead>
<tr>
<th>Location</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.10</td>
<td>Added Hyperthermia (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>1.3.27</td>
<td>Deleted Lethargy</td>
</tr>
<tr>
<td>1.3.28</td>
<td>Changed Lightheadedness/Dizziness to Lightheadedness</td>
</tr>
<tr>
<td>1.3.60</td>
<td>Added Agitation (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>1.3.61</td>
<td>Added Hypo/Hyperglycemia (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>2.2.1.2</td>
<td>Deleted Viral esophagitis</td>
</tr>
<tr>
<td>2.3.1.5</td>
<td>Added Toxin-induced hepatitis (Critical, Emergent)</td>
</tr>
<tr>
<td>2.3.3.3</td>
<td>Deleted Perihepatitis</td>
</tr>
<tr>
<td>2.8.2.2</td>
<td>Deleted Gluten enteropathy/Celiac disease</td>
</tr>
<tr>
<td>2.9.2.6</td>
<td>Added Ischemic colitis (Critical, Emergent)</td>
</tr>
<tr>
<td>2.9.4.2</td>
<td>Changed Diverticula to Diverticular disease (added Critical)</td>
</tr>
<tr>
<td>2.9.4.5</td>
<td>Added Perforation (Critical, Emergent)</td>
</tr>
<tr>
<td>2.12.1</td>
<td>Changed Bariatric surgery to Bariatric surgery complications</td>
</tr>
<tr>
<td>3.5.2.3</td>
<td>Added Takotsubo (Critical, Emergent)</td>
</tr>
<tr>
<td>3.9.2</td>
<td>Added Valvular stenosis/insufficiency (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>3.10.1</td>
<td>Added complication after AICD</td>
</tr>
<tr>
<td>3.10.3</td>
<td>Added Extracorporeal membrane oxygenation (ECMO) (Critical)</td>
</tr>
<tr>
<td>4.1.1</td>
<td>Changed from Basil cell to Basil cell carcinoma</td>
</tr>
<tr>
<td>Section</td>
<td>Changes Made</td>
</tr>
<tr>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>4.1.4</td>
<td>Changed from Squamous cell to Squamous cell carcinoma</td>
</tr>
<tr>
<td>4.2</td>
<td>Changed Ulcerative Lesions to Cutaneous Ulcers</td>
</tr>
<tr>
<td>4.2.1</td>
<td>Changed Decubitus to Decubitus ulcer</td>
</tr>
<tr>
<td>4.2.2</td>
<td>Changed from Venous stasis to Venous stasis ulcer</td>
</tr>
<tr>
<td>4.2.4</td>
<td>Added Arterial insufficiency ulcer (Low)</td>
</tr>
<tr>
<td>4.2.5</td>
<td>Added Calciphylaxis (Low)</td>
</tr>
<tr>
<td>4.3.1</td>
<td>Changed Atopic/Eczema to Eczema</td>
</tr>
<tr>
<td>4.3.2</td>
<td>Changed from Contact to Contact dermatitis</td>
</tr>
<tr>
<td>4.3.4</td>
<td>Changed Seborrhea to Seborrheic dermatitis</td>
</tr>
<tr>
<td>4.3.5</td>
<td>Added Diaper dermatitis (Low)</td>
</tr>
<tr>
<td>4.4.1.4</td>
<td>Changed Impetigo to Impetigo/Ecthyma</td>
</tr>
<tr>
<td>4.4.1.6</td>
<td>Added Spirochete/Rickettsia (Emergent, Low)</td>
</tr>
<tr>
<td>4.4.2.2</td>
<td>Added Dermatophytes to Dermatophytes (tinea)</td>
</tr>
<tr>
<td>4.4.3.1</td>
<td>Added Pediculosis (Low)</td>
</tr>
<tr>
<td>4.4.3.2</td>
<td>Added Scabies (Low)</td>
</tr>
<tr>
<td>4.4.3.3</td>
<td>Added Bed bugs (Low)</td>
</tr>
<tr>
<td>4.4.4.1</td>
<td>Deleted Aphthous ulcers</td>
</tr>
<tr>
<td>4.4.4.2</td>
<td>Deleted Childhood exanthems</td>
</tr>
<tr>
<td>4.4.4.1.1</td>
<td>Added Herpes simplex (Low)</td>
</tr>
<tr>
<td>4.4.4.1.2</td>
<td>Added Herpes zoster (Low)</td>
</tr>
<tr>
<td>4.4.4.4</td>
<td>Added Hand-foot-mouth disease (Low)</td>
</tr>
<tr>
<td>4.5.4.1</td>
<td>Added Drug rash with eosinophilia and systemic symptoms syndrome (DRESS) (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>4.6.5</td>
<td>Added Hidradenitis suppurativa (Low)</td>
</tr>
<tr>
<td>4.6.6</td>
<td>Added Lichen planus (Low)</td>
</tr>
<tr>
<td>4.6.7</td>
<td>Added Pyogenic granuloma (Low)</td>
</tr>
<tr>
<td>4.7</td>
<td>Changed Vesicular/Bullous Lesions to Vesicular/Bullous/Sloughing Conditions or Syndromes</td>
</tr>
<tr>
<td>4.7.1</td>
<td>Changed Pemphigus to Pemphigus vulgaris</td>
</tr>
<tr>
<td>4.7.6</td>
<td>Added Toxicodendron (Low)</td>
</tr>
<tr>
<td>4.8.1</td>
<td>Changed Henoch-Schönlein purpura (HSP) to Vasculitis (Emergent, Low)</td>
</tr>
<tr>
<td>4.8.1.1</td>
<td>Added Infectious (Critical, Emergent)</td>
</tr>
<tr>
<td>4.8.1.2</td>
<td>Added Drug-induced (Emergent, Low)</td>
</tr>
<tr>
<td>4.8.1.3</td>
<td>Added Autoimmune (Emergent, Low)</td>
</tr>
<tr>
<td>4.8.1.3.1</td>
<td>Added IgA vasculitis (Critical)</td>
</tr>
<tr>
<td>5.4.1.1.2.1</td>
<td>Added Euglycemic DKA (Emergent)</td>
</tr>
<tr>
<td>5.5.3</td>
<td>Deleted Malabsorption</td>
</tr>
<tr>
<td>5.8.1.1</td>
<td>Added Thyroid storm (Critical, Emergent)</td>
</tr>
<tr>
<td>5.8.2.1</td>
<td>Added Myxedema coma (Critical, Emergent)</td>
</tr>
<tr>
<td>6.1.1.1.1</td>
<td>Added Hymenoptera (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>7.1.2</td>
<td>Changed Labyrinthitis to Inner ear disorders (Low)</td>
</tr>
<tr>
<td>7.1.3</td>
<td>Deleted Meniere’s disease</td>
</tr>
<tr>
<td>7.1.8</td>
<td>Deleted perichondritis</td>
</tr>
<tr>
<td>7.2.1.8</td>
<td>Added Chemical exposure (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>7.2.3.1</td>
<td>Deleted Choroiditis/Chorioretinitis</td>
</tr>
<tr>
<td>7.2.3.5</td>
<td>Added Vitreous hemorrhage (Emergent)</td>
</tr>
<tr>
<td>7.4.2.5</td>
<td>Added Aphthous ulcers (Low)</td>
</tr>
<tr>
<td>7.4.7</td>
<td>Deleted Peritonsillar abscess</td>
</tr>
<tr>
<td>7.4.7.1</td>
<td>Added Post-tonsillectomy bleeding (Critical, Emergent)</td>
</tr>
<tr>
<td>Section</td>
<td>Changes and Additions</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>7.4.7.2</td>
<td>Added Peritonsillar abscess (Emergent)</td>
</tr>
<tr>
<td>8.2.1.4</td>
<td>Added Anticoagulation reversal (Critical, Emergent)</td>
</tr>
<tr>
<td>8.7.9</td>
<td>Added Chemotherapy complications (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>8.7.10</td>
<td>Added Immunotherapy complications (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>9.4.1</td>
<td>Changed Mucocutaneous lymph node syndrome (Kawasaki syndrome) to Kawasaki disease</td>
</tr>
<tr>
<td>9.6</td>
<td>Added Multisystem Inflammatory Syndrome in Children (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>10.1.7.1</td>
<td>Changed Shock to Septic shock</td>
</tr>
<tr>
<td>10.1.10</td>
<td>Added Scarlet fever (Emergent, Low)</td>
</tr>
<tr>
<td>10.2</td>
<td>Changed Biological Warfare Agents to Bioterrorism Agents/Diseases</td>
</tr>
<tr>
<td>10.2.1</td>
<td>Added Class A agents (Critical, Emergent)</td>
</tr>
<tr>
<td>10.2.2</td>
<td>Added Other microorganisms, viruses, and toxins (Critical, Emergent)</td>
</tr>
<tr>
<td>10.5.5</td>
<td>Added Southern tick-associated rash illness (STARI) – (Emergent, Low)</td>
</tr>
<tr>
<td>10.6.12</td>
<td>Added COVID-19 (SARS-CoV2) – (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>10.6.13</td>
<td>Added Parvovirus (fifth disease) – (Emergent, Low)</td>
</tr>
<tr>
<td>11.3.1.4</td>
<td>Changed Juvenile to Juvenile idiopathic arthritis</td>
</tr>
<tr>
<td>11.4.3</td>
<td>Added Compartment syndrome (See 18.1.14.2) – (Critical, Emergent)</td>
</tr>
<tr>
<td>11.6.1</td>
<td>Changed Fasciitis to Necrotizing infections (Critical, Emergent)</td>
</tr>
<tr>
<td>12.3.2</td>
<td>Changed Vascular to Migraine</td>
</tr>
<tr>
<td>12.3.4</td>
<td>Added Giant cell arteritis (Critical, Emergent)</td>
</tr>
<tr>
<td>12.5.5</td>
<td>Deleted Neuritis</td>
</tr>
<tr>
<td>12.5.5</td>
<td>Added Epidural abscess (Critical, Emergent)</td>
</tr>
<tr>
<td>12.9.1.6</td>
<td>Added Withdrawal (Critical, Emergent)</td>
</tr>
<tr>
<td>12.9.2</td>
<td>Changed Nonepileptiform to Nonepileptic seizure</td>
</tr>
<tr>
<td>12.14.1</td>
<td>Deleted Excited delirium syndrome</td>
</tr>
<tr>
<td>13.1.3.3</td>
<td>Added Chancres (Low)</td>
</tr>
<tr>
<td>13.1.5.4.1</td>
<td>Changed from Low to Emergent</td>
</tr>
<tr>
<td>13.7.5</td>
<td>Added Shoulder dystocia (Critical, Emergent)</td>
</tr>
<tr>
<td>14.1.8</td>
<td>Changed Medication-assisted treatment (MAT) to Medication for substance use disorder</td>
</tr>
<tr>
<td>14.6.1.3</td>
<td>Changed Elder to Vulnerable adult (Critical, Emergent)</td>
</tr>
<tr>
<td>14.6.3.1</td>
<td>Added Post-exposure prophylaxis (Emergent, Low)</td>
</tr>
<tr>
<td>14.8.2</td>
<td>Changed Hysteria/Conversion to Conversion disorder</td>
</tr>
<tr>
<td>15.9</td>
<td>Added Urologic Devices</td>
</tr>
<tr>
<td>15.9.1</td>
<td>Added Nephrostomy tube (Emergent, Low)</td>
</tr>
<tr>
<td>15.9.2</td>
<td>Added Malfunctioning indwelling catheter (Emergent, Low)</td>
</tr>
<tr>
<td>15.9.3</td>
<td>Added Ureteral stents (Emergent, Low)</td>
</tr>
<tr>
<td>15.10</td>
<td>Added Gender-affirming Procedural Complications (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>16.1.1.3</td>
<td>Added Ludwig’s angina (See 7.4.2.1) (Critical, Emergent)</td>
</tr>
<tr>
<td>16.4.2</td>
<td>Changed Bronchitis and bronchiolitis to Bronchitis</td>
</tr>
<tr>
<td>16.4.8</td>
<td>Added Bronchiolitis (Emergent, Low)</td>
</tr>
<tr>
<td>16.7.2.3</td>
<td>Changed Hospital-acquired pneumonia to Health care-associated pneumonia</td>
</tr>
<tr>
<td>16.8.1</td>
<td>Deleted Breast</td>
</tr>
<tr>
<td>16.8.2</td>
<td>Deleted Pulmonary</td>
</tr>
<tr>
<td>18.1.2.1</td>
<td>Changed Blunt aortic dissection/disruption to Blunt aortic injury/disruption</td>
</tr>
<tr>
<td>Section</td>
<td>Change Description</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
</tr>
<tr>
<td>18.1.3.3.4</td>
<td>Added Radiation (Critical, Emergent, Low)</td>
</tr>
<tr>
<td>18.1.6.1.3</td>
<td>Added Increased intracranial pressure (Critical, Emergent)</td>
</tr>
<tr>
<td>18.1.14.2</td>
<td>Added (See 11.4.3)</td>
</tr>
<tr>
<td>19.1.1.1</td>
<td>Added Direct laryngoscopy</td>
</tr>
<tr>
<td>19.1.1.2</td>
<td>Added Video-assisted laryngoscopy</td>
</tr>
<tr>
<td>19.1.2.1</td>
<td>Added Flexible endoscopic techniques</td>
</tr>
<tr>
<td>19.1.5.1</td>
<td>Added CPAP/BiPAP</td>
</tr>
<tr>
<td>19.1.5.2</td>
<td>Added High flow oxygen</td>
</tr>
<tr>
<td>19.2.4.1</td>
<td>Changed Therapeutic hypothermia (or targeted temperature management) to Targeted temperature management</td>
</tr>
<tr>
<td>19.2.13</td>
<td>Added Neurocritical care resuscitation</td>
</tr>
<tr>
<td>19.4.2.6</td>
<td>Changed Thoracostomy to Thoracostomy (including small bore catheters)</td>
</tr>
<tr>
<td>19.4.6.6</td>
<td>Deleted Fasciotomy</td>
</tr>
<tr>
<td>19.4.9.1</td>
<td>Deleted Psychiatric screening examination</td>
</tr>
<tr>
<td>19.5</td>
<td>Ultrasound – <em>This section underwent revision and extensive reordering. The changes are too numerous to document using this format.</em></td>
</tr>
<tr>
<td>20.0</td>
<td>Other Core Competencies of the Practice of Emergency Medicine - <em>This category underwent revision and extensive reordering. The changes are too numerous to document using this format.</em></td>
</tr>
</tbody>
</table>
### Table 1. Matrix of physician tasks by patient acuity

<table>
<thead>
<tr>
<th>Physician Tasks</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prehospital care</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency stabilization</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance of focused history and physical examination</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modifying factors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional issues</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal issues</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diagnostic studies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diagnosis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Therapeutic interventions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pharmacotherapy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Observation and reassessment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consultation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transitions of Care</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevention and education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task switching/Multiple patient care</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physician-led team leadership and management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass casualty/Disaster management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpersonal and patient-centered communication skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prognosis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table 2. Patient acuity definitions

<table>
<thead>
<tr>
<th>Patient Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical</td>
</tr>
<tr>
<td>Emergent</td>
</tr>
<tr>
<td>Lower Acuity</td>
</tr>
</tbody>
</table>

**Critical**

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.

**Emergent**

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.

**Lower Acuity**

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

<table>
<thead>
<tr>
<th>Task Definition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prehospital care</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Emergency stabilization</strong></td>
<td>Conduct primary assessment and take appropriate steps to stabilize and treat patients.</td>
</tr>
<tr>
<td><strong>Performance of focused history and physical examination</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Modifying factors</strong></td>
<td>Recognize age, gender, race, ethnicity, barriers to communication, socioeconomic status, underlying disease, gender identity, sexual orientation, and other factors that may affect patient management.</td>
</tr>
<tr>
<td><strong>Professional issues</strong></td>
<td>Understand and apply principles of professionalism and ethics pertinent to patient management.</td>
</tr>
<tr>
<td><strong>Legal issues</strong></td>
<td>Understand and apply legal concepts pertinent to the practice of EM.</td>
</tr>
<tr>
<td><strong>Diagnostic studies</strong></td>
<td>Select and perform the most appropriate diagnostic studies and interpret the results, e.g., electrocardiogram, emergency ultrasound, radiographic and laboratory tests.</td>
</tr>
<tr>
<td><strong>Diagnosis</strong></td>
<td>Develop a differential diagnosis and establish the most likely diagnoses in light of the history, physical, interventions, and test results.</td>
</tr>
<tr>
<td><strong>Therapeutic interventions</strong></td>
<td>Perform procedures and nonpharmacologic therapies, and counsel.</td>
</tr>
<tr>
<td><strong>Pharmacotherapy</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Observation and reassessment</strong></td>
<td>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 workups.</td>
</tr>
<tr>
<td><strong>Consultation</strong></td>
<td>Collaborate with physicians and other professionals to help guide optimal management of patients.</td>
</tr>
<tr>
<td><strong>Transitions of care</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
Prevention and education | Apply epidemiologic information to patients at risk; conduct patient education; select appropriate disease and injury prevention, and harm reduction techniques.

Documentation | Communicate patient care information in a concise and appropriate manner that facilitates quality care. This includes documentation and medical decision-making variables related to billing, coding, and reimbursement for patient care.

Task switching/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.

Physician-led team leadership and management | Function as team leaders in support of physician-led teams. Provide appropriate supervision of nurse practitioners and physician assistants in team-based care. 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.

Interpersonal and patient-centered communication skills | Establish rapport with and demonstrate empathy toward patients and their families; listen effectively and build trust with patients and their families. Identify situations that require individualized communication or shared decision-making, such as goals of care, end-of-life care, and palliative options.

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's 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

1.1 Abnormal Vital Signs

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.1 Hypothermia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.2 Fever</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.3 Bradycardia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.4 Tachycardia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.5 Bradypnea/Apnea</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.6 Tachypnea</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.7 Hypoxia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.8 Hypotension</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.9 Hypertension</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.1.10 Hyperthermia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

1.2 Pain

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.1 Pain (unspecified)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.2 Headache (See 12.3)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.3 Eye pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.4 Chest pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.5 Abdominal pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.6 Pelvic and genital pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.7 Back pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.8 Chronic pain</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1.2.9 Extremity pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.2.10 Neck pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

1.3 General

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3.1 Altered mental status</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.2 Anuria/Oliguria</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1.3.3 Ascites</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.4 Ataxia</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.5 Auditory disturbances</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1.3.6 Bleeding</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.7 Congestion/Rhinorrhea</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1.3.8 Constipation/Obstipation</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1.3.9 Cough</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Code</td>
<td>Condition</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>1.3.10</td>
<td>Crying/Fussiness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3.11</td>
<td>Cyanosis</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.12</td>
<td>Dehydration</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.13</td>
<td>Diarrhea</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.14</td>
<td>Dysmenorrhea</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.15</td>
<td>Dysphagia</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.16</td>
<td>Dysuria</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.17</td>
<td>Edema</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.18</td>
<td>Failure to thrive</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.19</td>
<td>Fatigue/Malaise</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.20</td>
<td>Feeding problems</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.21</td>
<td>Hematemesis</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.22</td>
<td>Hematuria</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.23</td>
<td>Hemoptysis</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.24</td>
<td>Hiccup</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.25</td>
<td>Jaundice</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.26</td>
<td>Joint swelling</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.27</td>
<td>Lightheadedness</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.28</td>
<td>Limp</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.29</td>
<td>Lymphadenopathy</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.30</td>
<td>Mechanical and indwelling devices, complications</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.31</td>
<td>Nausea/Vomiting</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.32</td>
<td>Occupational exposure</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.33</td>
<td>Palpitations</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.34</td>
<td>Paralysis</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.35</td>
<td>Paresthesia/Dysesthesia</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.36</td>
<td>Poisoning</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.37</td>
<td>Pruritus</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.38</td>
<td>Rash</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.39</td>
<td>Rectal bleeding</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.40</td>
<td>Shock</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.41</td>
<td>Shortness of breath</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.42</td>
<td>Sore throat</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.43</td>
<td>Stridor</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.44</td>
<td>Syncope/Near syncope</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.45</td>
<td>Tinnitus</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.46</td>
<td>Tremor</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.47</td>
<td>Urinary incontinence</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.48</td>
<td>Urinary retention</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.49</td>
<td>Vaginal bleeding</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.50</td>
<td>Vaginal discharge</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.51</td>
<td>Visual disturbances</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.52</td>
<td>Weakness</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.53</td>
<td>Wheezing</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.54</td>
<td>Toxidromes</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.55</td>
<td>Sudden unexpected infant death (SUID)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1.3.56</td>
<td>Suicidal ideation</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.57</td>
<td>Brief resolved unexplained events (BRUE)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.58</td>
<td>Intoxication syndromes</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.59</td>
<td>Postsurgical complications</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.60</td>
<td>Agitation</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1.3.61</td>
<td>Hypo/Hyperglycemia</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
# 2.0 ABDOMINAL AND GASTROINTESTINAL DISORDERS

## 2.1 Abdominal Wall

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hernias</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hematoma</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## 2.2 Esophagus

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infectious disorders</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Candida (See 4.4.2.1, 7.4.6)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Inflammatory disorders</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Esophagitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Gastroesophageal reflux (GERD)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Toxic effects of caustic agents (See 17.1.16.1)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Acid</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Alkali</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## 2.3 Liver

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noninfectious hepatitis/Cirrhosis</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Alcoholic</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Biliary obstructive</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Drug-induced</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nonalcoholic steatohepatitis (NASH)</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Toxin-induced hepatitis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Hepatorenal failure</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Infectious disorders</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Abscess</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Hepatitis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Tumors</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Hepatic encephalopathy</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## 2.4 Gall Bladder and Biliary Tract

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cholangitis</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cholecystitis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Cholelithiasis/Choledocholithias</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tumors</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## 2.5 Pancreas

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pancreatitis</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tumors</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
2.5.3 Pseudocyst

2.6 Peritoneum
2.6.1 Spontaneous bacterial peritonitis X X
2.6.2 Abdominal compartment syndrome X X

2.7 Stomach
2.7.1 Infectious disorders X
2.7.2 Inflammatory disorders
   2.7.2.1 Gastritis X X
2.7.3 Peptic ulcer disease
   2.7.3.1 Hemorrhage X X
   2.7.3.2 Perforation X X
2.7.4 Structural disorders
   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 Gastroparesis X X
2.7.7 Cyclic vomiting syndrome (See 17.1.24.1.1) X X

2.8 Small Bowel
2.8.1 Infectious disorders X X
2.8.2 Inflammatory disorders
   2.8.2.1 Regional enteritis/Crohn’s disease X X
2.8.3 Motor abnormalities
   2.8.3.1 Obstruction X X
   2.8.3.2 Paralytic ileus X
2.8.4 Structural disorders
   2.8.4.1 Aortoenteric fistula X
   2.8.4.2 Congenital anomalies X X
   2.8.4.3 Intestinal malabsorption X X
   2.8.4.4 Meckel's diverticulum X X
2.8.5 Tumors X X
2.8.6 Vascular insufficiency X X

2.9 Large Bowel
2.9.1 Infectious disorders
   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 Inflammatory 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
   2.9.2.5 Neutropenic enterocolitis/Typhlitis X X
   2.9.2.6 Ischemic colitis X X
2.9.3 Motor abnormalities
   2.9.3.1 Hirschsprung’s disease X X
   2.9.3.2 Irritable bowel X
### 2.9.3.3 Obstruction

**X**

### 2.9.4 Structural disorders

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.9.4.1</td>
<td>Congenital anomalies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.9.4.2</td>
<td>Diverticular disease</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2.9.4.3</td>
<td>Intussusception</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2.9.4.4</td>
<td>Volvulus</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2.9.4.5</td>
<td>Perforation</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 2.9.5 Tumors

**X**

### 2.10 Rectum and Anus

#### 2.10.1 Infectious disorders

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.10.1.1</td>
<td>Perianal/Anal abscess</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.10.1.2</td>
<td>Perirectal abscess</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2.10.1.3</td>
<td>Pilonidal cyst and abscess</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 2.10.2 Inflammatory disorders

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.10.2.1</td>
<td>Proctitis</td>
<td></td>
</tr>
</tbody>
</table>

#### 2.10.3 Structural disorders

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>X</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.10.3.1</td>
<td>Anal fissure</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2.10.3.2</td>
<td>Anal fistula</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2.10.3.3</td>
<td>Congenital anomalies</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2.10.3.4</td>
<td>Foreign body</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2.10.3.5</td>
<td>Hemorrhoids</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2.10.3.6</td>
<td>Rectal prolapse</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 2.10.4 Tumors

**X**

### 2.11 Spleen

#### 2.11.1 Asplenism

**X**

#### 2.11.2 Splenomegaly

**X**

#### 2.11.3 Vascular insufficiency/Infarction

**X**

### 2.12 Specific Post-surgical Populations

#### 2.12.1 Bariatric surgery complications

**X**

#### 2.12.2 Ostomy

**X**

**X**
## 3.0 CARDIOVASCULAR DISORDERS

### 3.1 Cardiopulmonary Arrest

<table>
<thead>
<tr>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3.2 Congenital Abnormalities of the Cardiovascular System

| 3.2.1 Tetralogy of Fallot spells | X | X | X |
| 3.2.2 Patent ductus arteriosus-dependent congenital heart anomalies | X | X |

### 3.3 Disorders of Circulation

#### 3.3.1 Arterial

| 3.3.1.1 Aneurysm | X | X | X |
| 3.3.1.2 Dissection | X |

#### 3.3.2 Venous

| 3.3.2.1 Thromboembolism (See 16.6.2) | X | X |

### 3.4 Disturbances of Cardiac Rhythm

#### 3.4.1 Cardiac dysrhythmias

| 3.4.1.1 Ventricular | X | X |
| 3.4.1.2 Supraventricular | X | X | X |

#### 3.4.2 Conduction disorders

| X | X | X |

### 3.5 Diseases of the Myocardium, Acquired

#### 3.5.1 Cardiac failure

| 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

| 3.5.2.1 Hypertrophic | X | X | X |
| 3.5.2.2 Dilated | 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 |

### 3.6 Diseases of the Pericardium

#### 3.6.1 Pericardial effusion/tamponade (See 18.1.2.6)

| X | X |

#### 3.6.2 Pericarditis

| X | X |

### 3.7 Hypertension

#### 3.7.1 Asymptomatic hypertension

| X |

#### 3.7.2 Hypertensive emergency

<p>| X | X | X |</p>
<table>
<thead>
<tr>
<th>Section</th>
<th>Topics</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8 Tumors</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3.9 Valvular Disorders</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3.9.1 Endocarditis</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3.9.2 Valvular stenosis/insufficiency</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3.10 Cardiovascular Devices</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.10.1 Pacemaker/Automatic implantable cardioverter-defibrillator (AICD) complication</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3.10.2 Left ventricular assist device (LVAD)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3.10.3 Extracorporeal membrane oxygenation (ECMO) (See 19.2.11)</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
4.0  CUTANEOUS DISORDERS

4.1  Cancers of the Skin
4.1.1  Basal cell carcinoma  X
4.1.2  Kaposi’s sarcoma  X
4.1.3  Melanoma  X
4.1.4  Squamous cell carcinoma  X

4.2  Cutaneous Ulcers
4.2.1  Decubitus ulcer  X  X
4.2.2  Venous stasis ulcer  
4.2.3  Diabetic foot ulcers  X  X
4.2.4  Arterial insufficiency ulcer  X
4.2.5  Calciphylaxis  

4.3  Dermatitis
4.3.1  Eczema  X
4.3.2  Contact dermatitis  X
4.3.3  Psoriasis  X
4.3.4  Seborrheic dermatitis  X
4.3.5  Diaper dermatitis  X

4.4  Infections
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/Ecthyma  
4.4.1.5  Necrotizing infection  X  X
4.4.1.6  Spirochete/Rickettsia  X  X
4.4.2  Fungal
4.4.2.1  Candida (See 2.2.1.1, 7.4.6)  X
4.4.2.2  Dermatophytes (tinea)  X
4.4.3  Ectoparasites  X
4.4.3.1  Pediculosis  X
4.4.3.2  Scabies  X
4.4.3.3  Bed bugs  X
4.4.4  Viral
4.4.4.1  Herpetic infections  X  X
4.4.4.1.1  Herpes simplex  (See 10.6.4, 13.1.3.1)  X
4.4.4.1.2  Herpes zoster (See 10.6.5)  X
4.4.4.2  Human papillomavirus (HPV)  (See 13.1.3.2)  X
4.4.4.3  Molluscum contagiosum  X
4.4.4.4  Hand-foot-mouth disease  X

4.5  Maculopapular Lesions
4.5.1  Erythema multiforme  X  X
4.5.2  Pityriasis rosea  
4.5.3  Urticaria  X  X
4.5.4 Drug eruptions
   4.5.4.1 Drug rash with eosinophilia and systemic symptoms syndrome (DRESS) X X

4.6 Papular/Nodular Lesions
   4.6.1 Hemangioma/Lymphangioma X
   4.6.2 Lipoma X
   4.6.3 Sebaceous cyst X
   4.6.4 Erythema nodosum X
   4.6.5 Hidradenitis suppurativa X
   4.6.6 Lichen planus X
   4.6.7 Pyogenic granuloma X

4.7 Vesicular/Bullous/Sloughing Conditions or Syndromes
   4.7.1 Pemphigus vulgaris 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
   4.7.6 Toxicodendron X

4.8 Purpuric Rash
   4.8.1 Vasculitis X X X
      4.8.1.1 Infectious X X
      4.8.1.2 Drug-induced X X
      4.8.1.3 Autoimmune X X
         4.8.1.3.1 IgA vasculitis X
## 5.0 ENDOCRINE, METABOLIC, AND NUTRITIONAL DISORDERS

### 5.1 Acid-base Disturbances

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.1</td>
<td>Metabolic or respiratory</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.1.1.1</td>
<td>Acidosis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.1.1.2</td>
<td>Alkalosis</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.1.2</td>
<td>Mixed acid-base balance disorder</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 5.2 Adrenal Disease

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2.1</td>
<td>Corticoadrenal insufficiency</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.2.2</td>
<td>Cushing’s syndrome</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 5.3 Fluid and Electrolyte Disturbances

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.3.1</td>
<td>Calcium metabolism</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.3.2</td>
<td>Hypervolemia/Hypovolemia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.3.3</td>
<td>Potassium metabolism</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.3.4</td>
<td>Sodium metabolism</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.3.5</td>
<td>Magnesium metabolism</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.3.6</td>
<td>Phosphorus metabolism</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 5.4 Glucose Metabolism

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4.1</td>
<td>Diabetes mellitus</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.4.1.1</td>
<td>Complications in glucose metabolism</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.4.1.1.1</td>
<td>Hyperglycemia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.4.1.1.2</td>
<td>Diabetic ketoacidosis (DKA)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.4.1.1.2.1</td>
<td>Euglycemic DKA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.4.1.1.3</td>
<td>Hyperosmolar hyperglycemic state</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.4.1.1.4</td>
<td>Hypoglycemia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 5.5 Nutritional Disorders

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5.1</td>
<td>Vitamin deficiencies</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5.5.2</td>
<td>Wernicke-Korsakoff syndrome</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.5.3</td>
<td>Malnutrition</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 5.6 Parathyroid Disease

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### 5.7 Pituitary Disorders

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.7.1</td>
<td>Panhypopituitarism</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### 5.8 Thyroid Disorders

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8.1</td>
<td>Hyperthyroidism</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.8.1.1</td>
<td>Thyroid storm</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5.8.2</td>
<td>Hypothyroidism</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>5.8.2.1</td>
<td>Myxedema coma</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### 5.9 Tumors of Endocrine Glands

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.9.1</td>
<td>Adrenal</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5.9.1.1</td>
<td>Pheochromocytoma</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5.9.2</td>
<td>Pituitary</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5.9.3</td>
<td>Thyroid</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
### 6.0 ENVIRONMENTAL DISORDERS

#### 6.1 Bites and Envenomation (See 18.1.3.2)

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.1 Arthropods</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.1.1.1 Insects</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.1.1.1.1 Hymenoptera</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.1.1.2 Arachnids</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.1.2 Mammals</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.1.3 Marine organisms (See 17.1.20)</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>6.1.4 Reptiles</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 6.2 Dysbarism

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2.1 Air embolism</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.2.2 Barotrauma</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.2.3 Decompression syndrome</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 6.3 Electrical Injury (See 18.1.3.3.1)

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3.1 Lightning</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 6.4 High-altitude Illness

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.4.1 Acute mountain sickness</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.4.2 High-altitude cerebral edema</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.4.3 High-altitude pulmonary edema</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 6.5 Submersion Incidents

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 6.6 Temperature-related Illness

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.6.1 Heat</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.6.2 Cold</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.6.2.1 Frostbite</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6.6.2.2 Hypothermia</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 6.7 Radiation Emergencies

<table>
<thead>
<tr>
<th>Category</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.7</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
### 7.0 HEAD, EAR, EYE, NOSE, THROAT DISORDERS

#### 7.1 Ear

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1.1</td>
<td>Foreign body</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7.1.1.1</td>
<td>Impacted cerumen</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.1.2</td>
<td>Inner ear disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.1.3</td>
<td>Mastoiditis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.1.4</td>
<td>Otitis externa</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.1.4.1</td>
<td>Infective</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.1.4.1.1</td>
<td>Malignant</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.1.5</td>
<td>Otitis media</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.1.6</td>
<td>Perforated tympanic membrane</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 7.2 Eye

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.2.1</td>
<td>External eye</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.2.1.1</td>
<td>Burn confined to eye</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.2</td>
<td>Conjunctivitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.3</td>
<td>Corneal abrasions</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.4</td>
<td>Disorders of lacrimal system</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.5</td>
<td>Foreign body</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.6</td>
<td>Disorders of the eyelids</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.7</td>
<td>Keratitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.1.8</td>
<td>Chemical exposure</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.2</td>
<td>Anterior pole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.2.2.1</td>
<td>Glaucoma</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.2.2</td>
<td>Hyphema</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.2.3</td>
<td>Iritis</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.2.4</td>
<td>Hypopyon</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.3</td>
<td>Posterior pole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.2.3.1</td>
<td>Optic neuritis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.3.2</td>
<td>Papilledema</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.2.3.3</td>
<td>Retinal detachments and defects</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7.2.3.4</td>
<td>Retinal vascular occlusion</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7.2.3.5</td>
<td>Vitreous hemorrhage</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.4</td>
<td>Orbit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.2.4.1</td>
<td>Cellulitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.2.4.1.1</td>
<td>Preseptal</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7.2.4.1.2</td>
<td>Septal/Orbital</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7.2.4.2</td>
<td>Endophthalmitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 7.3 Nose

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.3.1</td>
<td>Epistaxis</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.3.2</td>
<td>Foreign body</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7.3.3</td>
<td>Rhinitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.3.4</td>
<td>Sinusitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

#### 7.4 Oropharynx/Throat

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.4.1</td>
<td>Dentalgia</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7.4.2</td>
<td>Diseases of the oral soft tissue</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7.4.2.1</td>
<td>Ludwig's angina</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
7.4.2.2 Stomatitis X
7.4.2.3 Gingival and periodontal disorders X X
7.4.2.4 Odontogenic infections/Abscesses X X
7.4.2.5 Aphthous ulcers X

7.4.3 Diseases 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 Larynx/Trachea
7.4.5.1 Epiglottitis (See 16.1.1.2) X X
7.4.5.2 Laryngitis X
7.4.5.3 Tracheitis X X
7.4.5.4 Tracheostomy complications X X X

7.4.6 Oral candidiasis (See 2.2.1.1, 4.4.2.1) X

7.4.7 Pharyngitis/Tonsillitis X
7.4.7.1 Post-tonsillectomy bleeding X X
7.4.7.2 Peritonsillar abscess X

7.4.8 Retropharyngeal abscess X X

7.4.9 Temporomandibular joint disorders X

7.5 Tumors X X X X
## 8.0 HEMATOLOGIC AND ONCOLOGIC DISORDERS

### 8.1 Blood Transfusion

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1.1 Complications</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 8.2 Hemostatic Disorders

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.2.1 Coagulation defects</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.2.1.1 Acquired</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.2.1.2 Hemophilia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.2.1.3 Anticoagulation agents</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.2.1.4 Anticoagulation reversal</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.2.2 Disseminated intravascular coagulation</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.2.3 Platelet disorders</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.2.3.1 Thrombocytopenia</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.2.3.2 Idiopathic thrombocytopenic purpura</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.2.3.3 Thrombotic thrombocytopenic purpura</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 8.3 Lymphomas

- X | X |   |

### 8.4 Pancytopenia

- X | X |   |

### 8.5 Red Blood Cell Disorders

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5.1 Anemias</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.5.1.1 Aplastic</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.1.2 Hemoglobinopathies</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>8.5.1.2.1 Sickle cell anemia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.1.2.2 Thalassemia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.1.3 Hemolytic</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.1.4 Hypochromic</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>8.5.1.4.1 Iron deficiency</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.1.5 Megaloblastic</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.2 Polycythemia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.5.3 Methemoglobinemia (See 17.1.21)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 8.6 White Blood Cell Disorders

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.6.1 Leukemia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.6.2 Multiple myeloma</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.6.3 Leukopenia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 8.7 Oncologic Emergencies

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.7.1 Febrile neutropenia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.2 Hypercalcemia of malignancy</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.3 Hyperviscosity syndrome</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.4 Malignant pericardial effusion</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.5 Spinal cord compression (See 12.10)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.6 Superior vena cava syndrome</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.7 Tumor hemorrhage</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.8 Tumor lysis syndrome</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.9 Chemotherapy complications</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8.7.10</td>
<td>Immunotherapy complications</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
## 9.0 IMMUNE SYSTEM DISORDERS

### 9.1 Collagen Vascular Disease

<table>
<thead>
<tr>
<th>9.1.1 Raynaud’s disease</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1.2 Reactive arthritis (See 11.3.1.6)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.1.3 Rheumatoid arthritis (See 11.3.1.3)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.1.4 Scleroderma</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.1.5 Systemic lupus erythematosus</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.1.6 Vasculitis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2 Hypersensitivity

<table>
<thead>
<tr>
<th>9.2.1 Allergic reaction</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.2.2 Anaphylaxis</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.2.3 Angioedema</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.2.4 Drug allergies</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 9.3 Transplant-related Problems

<table>
<thead>
<tr>
<th>9.3.1 Immunosuppression</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.3.2 Rejection</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 9.4 Immune Complex Disorders

<table>
<thead>
<tr>
<th>9.4.1 Kawasaki Disease</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.4.2 Rheumatic fever</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.4.3 Sarcoidosis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.4.4 Post-streptococcal glomerulonephritis (See 15.3.1)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.5 Medication-induced Immunosuppression

<table>
<thead>
<tr>
<th>9.5.1 Chemotherapeutic agents</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5.2 Steroids</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9.5.3 Targeted immune modulators</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 9.6 Multisystem Inflammatory Syndrome in Children

<table>
<thead>
<tr>
<th>9.6 Multisystem Inflammatory Syndrome in Children</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
</table>
# 10.0 SYSTEMIC INFECTIOUS DISORDERS

## 10.1 Bacterial

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1.1</td>
<td>Bacterial food poisoning</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.1.1</td>
<td>Botulism</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.2</td>
<td>Chlamydia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.3</td>
<td>Gonococcus</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.4</td>
<td>Meningococcus</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.5</td>
<td>Mycobacterium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.1.5.1</td>
<td>Atypical mycobacteria</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.5.2</td>
<td>Tuberculosis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.6</td>
<td>Other bacterial diseases</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.6.1</td>
<td>Gas gangrene (See 11.6.3)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.7</td>
<td>Sepsis/Bacteremia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.7.1</td>
<td>Septic shock</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.7.2</td>
<td>Toxic shock syndrome</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.8</td>
<td>Spirochetes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.1.8.1</td>
<td>Syphilis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.9</td>
<td>Tetanus</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.1.10</td>
<td>Scarlet fever</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 10.2 Bioterrorism Agents/Diseases

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2.1</td>
<td>Class A agents</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.2.2</td>
<td>Other microorganisms, viruses, and toxins</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 10.3 Fungal Infections

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
</table>

## 10.4 Protozoan/Parasites

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.4.1</td>
<td>Malaria</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.4.2</td>
<td>Toxoplamosis</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 10.5 Tick-borne

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.5.1</td>
<td>Anaplasmosis (Ehrlichiosis)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.5.2</td>
<td>Lyme disease</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.5.3</td>
<td>Rocky Mountain spotted fever</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.5.4</td>
<td>Babesiosis</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.5.5</td>
<td>Southern tick-associated rash illness (STARI)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 10.6 Viral

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.6.1</td>
<td>Infectious mononucleosis</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.2</td>
<td>Influenza/Parainfluenza</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.3</td>
<td>Arbovirus</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.4</td>
<td>Herpes simplex (See 4.4.1.1, 13.1.3.1)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.5</td>
<td>Herpes zoster/Varicella (See 4.4.1.2)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.6</td>
<td>HIV/AIDS</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.7</td>
<td>Rabies</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.8</td>
<td>Roseola</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.9</td>
<td>Rubella</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.10</td>
<td>Measles</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.11</td>
<td>Mumps (Paramyxovirus)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.12</td>
<td>COVID-19 (SARS-CoV2)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10.6.13</td>
<td>Parvovirus (fifth disease)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>10.7</td>
<td>Emerging Infections/Pandemics</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>10.8</td>
<td>Drug Resistance</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
## 11.0 MUSCULOSKELETAL DISORDERS (NONTRAUMATIC)

### 11.1 Bony Abnormalities

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1.1</td>
<td>Aseptic/Avascular necrosis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.1.2</td>
<td>Osteomyelitis</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.1.3</td>
<td>Tumors</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.1.4</td>
<td>Atypical fractures</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.1.4.1</td>
<td>Osteoporotic</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11.1.4.2</td>
<td>Tumor-related</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.1.4.3</td>
<td>Congenital disorders</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 11.2 Disorders of the Spine

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.2.1</td>
<td>Disc disorders</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.2.2</td>
<td>Inflammatory/Infectious spondylopathies</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.2.3</td>
<td>Radiculopathy (See 12.7.3)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.2.4</td>
<td>Spinal stenosis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.2.5</td>
<td>Cervical pain</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11.2.6</td>
<td>Thoracic pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11.2.7</td>
<td>Lumbosacral pain</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11.2.7.1</td>
<td>Cauda equina syndrome (See 18.1.15.1)</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11.2.7.2</td>
<td>Sacroiliitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>11.2.7.3</td>
<td>Sciatica</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.2.8</td>
<td>Discitis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 11.3 Joint Abnormalities

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.3.1</td>
<td>Arthritis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.3.1.1</td>
<td>Septic</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.3.1.2</td>
<td>Crystal arthropathies</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.3.1.3</td>
<td>Rheumatoid (See 9.1.3)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.3.1.4</td>
<td>Juvenile idiopathic arthritis</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.3.1.5</td>
<td>Osteoarthritis</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.3.1.6</td>
<td>Reactive arthritis (See 9.1.2)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.3.2</td>
<td>Developmental dysplasia of the hip</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.3.3</td>
<td>Slipped capital femoral epiphysis</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.3.4</td>
<td>Synovitis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 11.4 Muscle Abnormalities

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4.1</td>
<td>Myositis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>11.4.2</td>
<td>Rhabdomyolysis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.4.3</td>
<td>Compartment syndrome (See 18.1.14.2)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 11.5 Overuse Syndromes

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.5.1</td>
<td>Bursitis</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.5.2</td>
<td>Muscle strains</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.5.3</td>
<td>Peripheral nerve syndrome</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.5.3.1</td>
<td>Carpal tunnel syndrome</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.5.4</td>
<td>Tendinopathy</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.5.5</td>
<td>Stress reaction fracture</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### 11.6 Soft Tissue Infections
<table>
<thead>
<tr>
<th>Section</th>
<th>Condition</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.6.1</td>
<td>Necrotizing infections</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.6.2</td>
<td>Felon</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>11.6.3</td>
<td>Gangrene (See 10.1.6.1)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11.6.4</td>
<td>Paronychia</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>11.6.5</td>
<td>Tenosynovitis</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
### 12.0 NERVOUS SYSTEM DISORDERS

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12.1 Cranial Nerve Disorders</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1.1</td>
<td>Idiopathic facial nerve paralysis (Bell’s palsy)</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.1.2</td>
<td>Trigeminal neuralgia</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>12.2 Demyelinating Disorders</strong></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2.1</td>
<td>Multiple sclerosis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>12.3 Headache</strong> (See 1.2.2)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.3.1</td>
<td>Tension</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.3.2</td>
<td>Migraine</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.3.3</td>
<td>Cluster</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.3.4</td>
<td>Giant cell arteritis</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>12.4 Hydrocephalus</strong></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.4.1</td>
<td>Normal pressure</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.4.2</td>
<td>Shunt complications</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>12.5 Infections/Inflammatory Disorders</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.5.1</td>
<td>Encephalitis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.5.2</td>
<td>Intracranial and intraspinal abscess</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.5.3</td>
<td>Meningitis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.5.3.1</td>
<td>Bacterial</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.5.3.2</td>
<td>Viral</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.5.3.3</td>
<td>Fungal</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.5.4</td>
<td>Myelitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.5.4.1</td>
<td>Acute flaccid myelitis</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.5.5</td>
<td>Epidural abscess</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>12.6 Movement Disorders</strong></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.6.1</td>
<td>Dystonic reaction</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.6.2</td>
<td>Chorea/Choreiform</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.6.3</td>
<td>Tardive dyskinesia</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>12.7 Neuromuscular Disorders</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.7.1</td>
<td>Guillain-Barré syndrome</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.7.2</td>
<td>Myasthenia gravis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.7.3</td>
<td>Peripheral neuropathy (See 11.2.3)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>12.8 Other Conditions of the Brain</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.8.1</td>
<td>Dementia (See 14.5.2)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.8.2</td>
<td>Parkinson’s disease</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.8.3</td>
<td>Idiopathic intracranial hypertension</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.8.4</td>
<td>Cerebral venous sinus thrombosis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12.8.5</td>
<td>Posterior reversible encephalopathy syndrome (PRES)</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.8.6</td>
<td>Transient global amnesia</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>12.9 Seizure Disorders</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Condition</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>12.9.1</td>
<td>Epileptiform</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.9.1.1</td>
<td>Neonatal</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.9.1.2</td>
<td>Febrile</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12.9.1.3</td>
<td>Status epilepticus</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.9.1.4</td>
<td>Nonconvulsive</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.9.1.5</td>
<td>Drug-induced</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.9.1.6</td>
<td>Withdrawal</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12.9.2</td>
<td>Nonepileptic seizure</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

12.10 Spinal Cord Compression (See 8.7.5) | 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 Transient Cerebral Ischemia | X | X |   |

12.13 Tumors | X | X | X |

12.14 Delirium | X | X | X |
## 13.0 OBSTETRICS AND GYNECOLOGY

### 13.1 Female Genital Tract

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.1.1</td>
<td>Cervix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.1.1</td>
<td>Cervicitis and endocervicitis</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.1.2</td>
<td>Tumors</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.2</td>
<td>Infectious disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.2.1</td>
<td>Pelvic inflammatory disease</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.2.1.1</td>
<td>Fitz-Hugh-Curtis syndrome</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.2.1.2</td>
<td>Tuboovarian abscess</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.2.2</td>
<td>Urethritis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.2.3</td>
<td>Gangrene of perineum</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13.1.3</td>
<td>Lesions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.3.1</td>
<td>Herpes simplex (See 4.4.4.1.1, 10.6.4)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.3.2</td>
<td>Human papillomavirus (HPV)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>(See 4.4.4.2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.3.3</td>
<td>Chancre</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.4</td>
<td>Ovary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.4.1</td>
<td>Cyst</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.4.2</td>
<td>Torsion</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.4.3</td>
<td>Tumors</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>13.1.5</td>
<td>Uterus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.5.1</td>
<td>Abnormal bleeding</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>13.1.5.2</td>
<td>Endometriosis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.5.3</td>
<td>Prolapse</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.5.4</td>
<td>Tumors</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>13.1.5.4.1</td>
<td>Gestational trophoblastic disease</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.5.4.2</td>
<td>Leiomyoma</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.6</td>
<td>Vagina and vulva</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.1.6.1</td>
<td>Bartholin’s cyst</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>13.1.6.2</td>
<td>Foreign body</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.1.6.3</td>
<td>Vaginitis/Vulvovaginitis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### 13.2 Normal Pregnancy

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Condition</th>
<th>Critical</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3.1</td>
<td>Abortion</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.3.2</td>
<td>Ectopic pregnancy</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.3.3</td>
<td>Hemolysis, elevated liver enzymes, low platelets (HELLP) syndrome</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13.3.4</td>
<td>Hemorrhage, antepartum</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.3.4.1</td>
<td>Abruptio placentae (See 18.2.1)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13.3.4.2</td>
<td>Placenta previa</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13.3.5</td>
<td>Hyperemesis gravidarum</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13.3.6</td>
<td>Gestational hypertension</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13.3.6.1</td>
<td>Eclampsia</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.3.6.2</td>
<td>Preeclampsia</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13.3.7</td>
<td>Infections</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3.8</td>
<td>Rh isoimmunization</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
13.3.9 First trimester bleeding  X  X  X
13.3.10 Gestational diabetes  X  X

13.4 High-risk 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 Complications 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 Complications of Delivery
13.7.1 Malposition of fetus  X  X
13.7.2 Nuchal cord  X
13.7.3 Prolapse of cord  X
13.7.4 Amniotic fluid embolism  X  X
13.7.5 Shoulder dystocia  X  X

13.8 Postpartum 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 Contraception  X  X
14.0 PSYCHOBEHAVIORAL DISORDERS

14.1 Substance Use Disorders

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 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
14.1.6 Opioid use disorder (See 17.1.2.3) X X X
14.1.7 Stimulant use disorder X X X
14.1.8 Medication for substance use disorder 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
14.2.4 Grief reaction X
14.2.5 Schizophrenia X X

14.3 Factitious Disorders

X X

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

14.6 Patterns of Violence/Abuse/Neglect

14.6.1 Interpersonal violence X X X
   14.6.1.1 Child X X X
   14.6.1.2 Intimate partner X X X
   14.6.1.3 Vulnerable adult X X
   14.6.1.4 Elder X X X
14.6.2 Homicidal risk X X
14.6.3 Sexual assault X
   14.6.3.1 Post-exposure prophylaxis X X
14.6.4 Staff/Patient safety X
14.6.5 Human trafficking X X

14.7 Personality Disorders

X

14.8 Psychosomatic Disorders

14.8.1 Hypochondriasis X
<table>
<thead>
<tr>
<th>Section</th>
<th>Disorder</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.8.2</td>
<td>Conversion disorder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.9</td>
<td>Feeding and Eating Disorders</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
## 15.0 RENAL AND UROGENITAL DISORDERS

### 15.1 Acute and Chronic Renal Failure
- Critical: X
- Emergent: X
- Lower Acuity: X

### 15.2 Complications of Dialysis
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.2.1 Vascular: X
  - 15.2.2 Peritoneal: X

### 15.3 Glomerular Disorders
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.3.1 Glomerulonephritis (See 9.4.4): X
  - 15.3.2 Nephrotic syndrome: X

### 15.4 Infection
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.4.1 Cystitis: X
  - 15.4.2 Pyelonephritis: X
  - 15.4.3 Asymptomatic bacteriuria: X

### 15.5 Male Genital Tract
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.5.1 Genital lesions: X
  - 15.5.2 Hernias: X
  - 15.5.3 Inflammation/Infection
    - 15.5.3.1 Balanitis/Balanoposthitis: X
    - 15.5.3.2 Epididymitis/Orchitis: X
    - 15.5.3.3 Gangrene of the perineum (Fournier's gangrene): X
      - 15.5.3.3.1 Medication induced: X
  - 15.5.4 Structural
    - 15.5.4.1 Paraphimosis/Phimosis: X
    - 15.5.4.2 Priapism: X
      - 15.5.4.2.1 Medication induced: X
    - 15.5.4.3 Prostatic hypertrophy (BPH): X
    - 15.5.4.4 Torsion: X
  - 15.5.5 Testicular masses: X

### 15.6 Nephritis
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.6.1 Hemolytic uremic syndrome: X

### 15.7 Structural Disorders
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.7.1 Calculus of urinary tract: X
  - 15.7.2 Obstructive uropathy: X
  - 15.7.3 Polycystic kidney disease: X

### 15.8 Tumors
- Critical: X

### 15.9 Urologic Devices
- Critical: X
- Emergent: X
- Lower Acuity: X
  - 15.9.1 Nephrostomy tube: X
  - 15.9.2 Malfunctioning indwelling catheter: X
  - 15.9.3 Ureteral stents: X

### 15.10 Gender Affirming Procedural Complications
- Critical: X
- Emergent: X
- Lower Acuity: X
# 16.0 THORACIC-RESPIRATORY DISORDERS

## 16.1 Acute Upper Airway Disorders

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.1.1</td>
<td>Infections</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.1.1.1</td>
<td>Croup</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.1.1.2</td>
<td>Epiglottitis (See 7.4.5.1)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.1.1.3</td>
<td>Ludwig’s angina (See 7.4.2.1)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.1.2</td>
<td>Obstruction/Foreign body (See 16.4.7)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 16.2 Disorders of Pleura, Mediastinum, and Chest Wall

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.2.1</td>
<td>Costochondritis</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.2.2</td>
<td>Mediastinitis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.2.3</td>
<td>Pleural effusion</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.2.4</td>
<td>Pleuritis</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>16.2.5</td>
<td>Pneumomediastinum</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>16.2.6</td>
<td>Pneumothorax (See 18.1.2.7)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.2.6.1</td>
<td>Simple</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>16.2.6.2</td>
<td>Tension</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>16.2.6.3</td>
<td>Open</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>16.2.7</td>
<td>Empyema</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 16.3 Acute Respiratory Distress Syndrome

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.3</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## 16.4 Obstructive/Restrictive Lung Disease

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.4.1</td>
<td>Asthma/Reactive airway disease</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.4.2</td>
<td>Bronchitis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.4.3</td>
<td>Bronchopulmonary dysplasia</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.4.4</td>
<td>Chronic obstructive pulmonary disease</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.4.5</td>
<td>Cystic fibrosis</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.4.6</td>
<td>Environmental/Industrial exposure</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.4.7</td>
<td>Foreign body (See 16.1.2)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.4.8</td>
<td>Bronchiolitis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 16.5 Physical and Chemical Irritants/Insults

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5.1</td>
<td>Pneumoconiosis</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.5.2</td>
<td>Toxic effects of gases, fumes, vapors (See 18.1.3.3.2)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

## 16.6 Pulmonary Embolism/Infarct

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.6.1</td>
<td>Septic emboli</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.6.2</td>
<td>Venous thromboembolism (See 3.3.2.1)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.6.2.1</td>
<td>Massive and submassive embolism</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16.6.3</td>
<td>Fat emboli</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## 16.7 Pulmonary Infections

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.7.1</td>
<td>Lung abscess</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.7.2</td>
<td>Pneumonia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.7.2.1</td>
<td>Aspiration</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.7.2.2</td>
<td>Community-acquired</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.7.2.3</td>
<td>Healthcare-associated pneumonia</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16.7.2.4</td>
<td>Pneumocystis</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
16.7.3 Pulmonary tuberculosis X
16.7.4 Respiratory syncytial virus (RSV) X X X
16.7.5 Pertussis X X X

16.8 Tumors X X

16.9 Pulmonary Hypertension X X X
## 17.0 TOXICOLOGIC DISORDERS

### 17.1 Drug and Chemical Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol (See 14.1.1)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ethanol</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Methanol</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Analgesics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetaminophen</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Nonsteroidal anti-inflammatories (NSAIDS)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Opioids (See 14.1.6)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Salicylates</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Anticholinergics</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Antihistamines</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Anticoagulants/Antithrombotics/Antiplatelets</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Direct thrombin inhibitors</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factor Xa inhibitors</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heparins</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Vitamin K antagonists</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Anticonvulsants</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Antidepressants</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Bupropion</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selective serotonin reuptake inhibitors</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tricyclic antidepressants</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Antiemetics</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Antimicrobials</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Antibiotics</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Isoniazid</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Antimalarials</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Antiretrovirals</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Antipsychotics</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cardiovascular drugs</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Antiarrhythmics</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Digoxin</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Antihypertensives</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Central acting</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Peripheral Acting</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Beta blockers</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Calcium channel blockers</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cholinergics</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Nerve agents</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Organophosphates</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cyanides, hydrogen sulfide</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Heavy metals</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Herbicides, insecticides, and rodenticides</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Household/Industrial chemicals</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Caustic agents (See 2.2.3)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
17.1.16.2 Hydrocarbons  X 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 (See 2.7.7)  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

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Description</th>
<th>Critical</th>
<th>Emergent</th>
<th>Lower Acuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1.1</td>
<td>Abdominal trauma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.1.1</td>
<td>Diaphragm</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.1.2</td>
<td>Hollow viscus</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.1.3</td>
<td>Penetrating</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.1.4</td>
<td>Retroperitoneum</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.1.5</td>
<td>Solid organ</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.1.6</td>
<td>Vascular</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.1.7</td>
<td>Abdominal wall</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.2</td>
<td>Thoracic trauma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.1</td>
<td>Blunt aortic injury/disruption</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.2</td>
<td>Contusion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.2.1</td>
<td>Cardiac</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>18.1.2.2.2</td>
<td>Pulmonary</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.3</td>
<td>Fracture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.3.1</td>
<td>Clavicle</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.2.3.2</td>
<td>Ribs/Flail chest</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>18.1.2.3.3</td>
<td>Sternum</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>18.1.2.3.4</td>
<td>Scapula</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.2.4</td>
<td>Hemothorax</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.2.5</td>
<td>Penetrating chest trauma</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.2.6</td>
<td>Pericardial tamponade (See 3.6.1)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.7</td>
<td>Pneumothorax (See 16.2.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.7.1</td>
<td>Simple</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.7.2</td>
<td>Tension</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.2.7.3</td>
<td>Open</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.3</td>
<td>Cutaneous trauma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.3.1</td>
<td>Avulsions</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.3.2</td>
<td>Bite wounds (See 6.1)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.3.3</td>
<td>Burns</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.3.3.1</td>
<td>Electrical (See 6.3)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>18.1.3.3.2</td>
<td>Chemical (See 16.5.2)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.3.3.3</td>
<td>Thermal</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>18.1.3.3.4</td>
<td>Radiation</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>18.1.3.4</td>
<td>Lacerations</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.3.5</td>
<td>Puncture wounds</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.3.6</td>
<td>Nail injuries</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.4</td>
<td>Facial trauma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.4.1</td>
<td>Dental</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.4.2</td>
<td>Le Fort</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>18.1.4.3</td>
<td>Mandibular</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.4.4</td>
<td>Orbital</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.4.5</td>
<td>Nasal</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18.1.4.5.1</td>
<td>Septal hematoma</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.4.6</td>
<td>Zygomaticomaxillary complex</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.5</td>
<td>Genitourinary trauma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.5.1</td>
<td>Bladder</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.5.2</td>
<td>External genitalia</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.1.5.3</td>
<td>Renal</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
18.1.5.4 Ureteral X
18.1.5.5 Urethral X X

18.1.6 Head trauma
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
   18.1.6.1.3 Increased intracranial pressure X X
18.1.6.2 Scalp lacerations/Avulsions X X
18.1.6.3 Skull fractures X X

18.1.7 Spine trauma
18.1.7.1 Dislocations/Subluxations X X
18.1.7.2 Fractures X X X
18.1.7.3 Sprains/Strains X

18.1.8 Extremity bony trauma
18.1.8.1 Dislocations/Subluxations X
18.1.8.2 Fractures (open and closed) X X

18.1.9 Neck trauma
18.1.9.1 Laryngotracheal injuries X X
18.1.9.2 Penetrating neck trauma X X
18.1.9.3 Vascular injuries X X
18.1.9.4 Strangulation X X X

18.1.10 Ophthalmologic trauma
18.1.10.1 Corneal abrasions/Lacerations (See 7.2.1.3) X X
18.1.10.2 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 Periorbital lacerations X
   18.1.10.3.1 Eyelid X
   18.1.10.3.2 Lacrimal duct X
18.1.10.4 Foreign body (See 19.4.4.8) X
18.1.10.5 Hyphema (See 7.2.2.2) X
18.1.10.6 Penetrating globe injuries X
18.1.10.7 Retinal detachments (See 7.2.3.3) X
18.1.10.8 Traumatic iritis (See 7.2.2.3) X X
18.1.10.9 Retrobulbar hematoma X

18.1.11 Otologic trauma
18.1.11.1 Hematoma X X
18.1.11.2 Perforated tympanic membrane (See 7.1.6) X

18.1.12 Pediatric fractures
18.1.12.1 Epiphyseal X X
   18.1.12.1.1 Salter-Harris classification X X
   18.1.12.2 Greenstick X
   18.1.12.3 Torus X
   18.1.12.4 Apophyseal avulsion X

18.1.13 Pelvic fracture X X

18.1.14 Soft-tissue extremity injuries
18.1.14.1 Amputations/Replantation X
18.1.14.2 Compartment syndromes (See 11.4.3) X
18.1.14.3 High-pressure injection X
### 18.1.14 Injuries to joints
- 18.1.14.4 Injuries to joints  X  X
- 18.1.14.5 Penetrating trauma  X  X
- 18.1.14.6 Periarticular  X
- 18.1.14.7 Sprains/Strains  X
- 18.1.14.8 Tendon injuries
  - 18.1.14.8.1 Lacerations/Transections  X
  - 18.1.14.8.2 Ruptures  X  X
- 18.1.14.9 Vascular injuries  X  X

### 18.1.15 Spinal cord and nervous system trauma
- 18.1.15.1 Cauda equina syndrome
  - (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  (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-system Trauma
- 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
19.0 PROCEDURES AND SKILLS INTEGRAL TO THE PRACTICE OF EMERGENCY MEDICINE

19.1 Airway Techniques
19.1.1 Intubation
   19.1.1.1 Direct laryngoscopy
   19.1.1.2 Video-assisted laryngoscopy
19.1.2 Airway adjuncts
   19.1.2.1 Flexible endoscopic techniques
19.1.3 Surgical airway
19.1.4 Mechanical ventilation
19.1.5 Non-invasive ventilatory management
   19.1.5.1 CPAP/BiPAP
   19.1.5.2 High flow oxygen
19.1.6 Ventilatory monitoring

19.2 Resuscitation
19.2.1 Cardiopulmonary resuscitation
19.2.2 Neonatal resuscitation
19.2.3 Pediatric resuscitation
19.2.4 Post-resuscitative care
   19.2.4.1 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
19.2.11 Extracorporeal membrane oxygenation (ECMO) (See 3.10.3)
19.2.12 Thermoregulation procedures
19.2.13 Neurocritical care resuscitation

19.3 Anesthesia and Acute Pain Management
19.3.1 Regional anesthesia
19.3.2 Procedural sedation
19.3.3 Analgesia

19.4 Diagnostic 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 Gastrostomy tube replacement
   19.4.1.4 Nasogastric tube
   19.4.1.5 Paracentesis
   19.4.1.6 Mechanical control of upper gastrointestinal bleeding
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 (including small bore catheters)

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
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

19.4.7 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 Resuscitative hysterotomy (See 18.2.2)
19.4.8.3 Sexual assault examination

19.4.9 Psychobehavioral
19.4.9.1 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
19.4.10.3 Testicular detorsion

19.4.11 Toxicologic
19.4.11.1 Decontamination
19.4.11.2 Antidote administration

19.5 Ultrasound
19.5.1 Ultrasound physics, artifacts, knobology, and safety (ALARA)
19.5.2 Diagnostic ultrasound
   19.5.2.1 Aorta
   19.5.2.1.1 Abdominal aortic aneurysm
19.5.2.2 Biliary
  19.5.2.2.1 Cholelithiasis
  19.5.2.2.2 Cholecystitis
19.5.2.3 Bowel
  19.5.2.3.1 Peritoneal fluid assessment
  19.5.2.3.2 Small bowel obstruction
19.5.2.4 Cardiac
  19.5.2.4.1 Asystole
  19.5.2.4.2 Global left ventricular function
  19.5.2.4.3 Global right ventricular size
  19.5.2.4.4 Pericardial fluid
19.5.2.5 Ocular
  19.5.2.5.1 Undifferentiated vitreous chamber
19.5.2.6 Female pelvis (transabdominal and transvaginal approaches)
  19.5.2.6.1 Intrauterine pregnancy
  19.5.2.6.2 Fetal assessment
    19.5.2.6.2.1 Fetal heart rate
19.5.2.7 Renal and bladder
  19.5.2.7.1 Hydronephrosis
  19.5.2.7.2 Bladder volume assessment
19.5.2.8 Soft tissue/Musculoskeletal
  19.5.2.8.1 Abscess
  19.5.2.8.2 Cellulitis
  19.5.2.8.3 Necrotizing fasciitis
  19.5.2.8.4 Foreign body detection
  19.5.2.8.5 Joint effusion
19.5.2.9 Thoracic
  19.5.2.9.1 Pleural effusion
  19.5.2.9.2 Pneumothorax
  19.5.2.9.3 Alveolar interstitial syndrome
19.5.2.10 Venous/Arterial assessment
  19.5.2.10.1 Deep venous thrombosis
  19.5.2.10.2 Inferior vena cava

19.5.3 Resuscitative
  19.5.3.1 Cardiac arrest
  19.5.3.2 Medical
  19.5.3.3 Traumatic
    19.5.3.3.1 Pericardial fluid
    19.5.3.3.2 Peritoneal fluid
    19.5.3.3.3 Pleural fluid
    19.5.3.3.4 Pneumothorax
  19.5.3.4 Undifferentiated hypotension

19.5.4 Procedural applications
  19.5.4.1 Abscess incision and drainage
  19.5.4.2 Arthrocentesis
  19.5.4.3 Foreign body removal
  19.5.4.4 Paracentesis
  19.5.4.5 Pericardiocentesis
  19.5.4.6 Regional anesthesia
  19.5.4.7 Thoracentesis
  19.5.4.8 Vascular access
19.5.4.8.1 Central venous
19.5.4.8.2 Peripheral venous
19.5.4.8.3 Arterial

19.6 Other Diagnostic and Therapeutic Procedures
19.6.1 Foreign body removal
19.6.2 Collection and handling of forensic material
20.0 OTHER CORE COMPETENCIES OF THE PRACTICE OF EMERGENCY MEDICINE

20.1 Interpersonal and Communication Skills
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-centered care and patient/family engagement
  20.1.1.4 Empathetic and compassionate care management skills
20.1.2 Communication skills
  20.1.2.1 Complaint management and service recovery
  20.1.2.2 Conflict management and resolution
  20.1.2.3 Crisis resource management
  20.1.2.4 Delivering difficult information to patient and family
  20.1.2.5 Notification of family/loved ones of deceased patient
  20.1.2.6 Cultural humility
    20.1.2.6.1 Implicit bias
    20.1.2.6.2 Systemic racism
  20.1.2.7 Social determinants of health resource management
  20.1.2.8 Negotiation skills
  20.1.2.9 Partnering with patients and families to discuss, address, and manage their plan of care
  20.1.2.10 Shared decision-making
  20.1.2.11 Active listening and building trust
  20.1.2.12 Discharge planning, medication management, and patient/family education
  20.1.2.13 Handoffs, hospital admission, and patient/family education

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 Care teams
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
  20.3.1.4 Injury prevention
    20.3.1.4.1 Firearm injury
20.3.2 Ethical principles
  20.3.2.1 Conflicts of interest
  20.3.2.2 Diversity and inclusion awareness
  20.3.2.3 Management of medical misinformation and disinformation
20.3.2.4 Medical ethics
20.3.2.5 Stewardship of resources
20.3.2.6 Care of vulnerable populations
20.3.2.7 Gender and sexual orientation
   20.3.2.7.1 Transgender care
   20.3.2.7.1.1 Gender-affirming therapy and procedures
20.3.3 Leadership and management principles
20.3.4 Well-being and resilience
   20.3.4.1 Fatigue and impairment
      20.3.4.1.1 Sleep hygiene
   20.3.4.2 Time management/Organizational skills
   20.3.4.3 Work/Life balance
   20.3.4.4 Physician burnout
   20.3.4.5 Job and contract evaluation
   20.3.4.6 Care for the caregiver

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 exchange and interoperability
   20.4.1.5 Telemedicine
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
      20.4.2.4.3 Staffing/Scheduling
20.4.2.5 Emergency preparedness
   20.4.2.5.1 Emergency operations plan
   20.4.2.5.2 Supplies/Materials procurement and stockpiling
      20.4.2.5.2.1 Personal protective equipment
   20.4.2.5.3 Hospital-based casualty/disaster protocols
      20.4.2.5.3.1 Incident command system
      20.4.2.5.3.2 Decontamination, triage, and treatment areas
   20.4.2.5.4 External disaster planning
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
   20.4.3.5 Clinical quality measurement
20.4.3.6 Physician-led care team

20.4.4 Health care coordination
20.4.4.1 Advance directives
   20.4.4.1.1 Physician orders for life-sustaining treatment (POLST)
20.4.4.2 Palliative care
   20.4.4.2.1 Patient identification for palliative care
   20.4.4.2.2 Withdrawal of support
   20.4.4.2.3 Hospice referral
20.4.4.3 Placement options
   20.4.4.3.1 Activities of daily living/Functional assessment
20.4.4.4 Outpatient services
20.4.4.5 Organ donation

20.4.5 Regulatory/Legal
20.4.5.1 Accreditation
20.4.5.2 Compliance and reporting requirements
20.4.5.3 Confidentiality, privacy, and HIPAA
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
20.4.5.8 Treatment of unaccompanied minors

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 Regionalization of emergency care

20.4.8 Evolving trends in health care delivery