**READING LIST TOPICS**

**The following is a list of topics and procedural skills you should read about during this rotation.  Don’t get caught up in too many details, as the goal is to understand the basics, not to become board-certified in emergency medicine in 4 weeks!**

1.        Cardiac Arrest - BLS and ACLS

2.        Arrhythmias - Basic recognition and treatment

3.        Respiratory Distress - upper airway obstruction

                                         - CHF

                                         - asthma/COPD

4.        Shock

       -  hypovolemic

 - neurogenic

                                      -  cardiogenic

* anaphylactic

  -  septic

5.        Trauma Basics                - head injury + Glasgow Coma Scale

                                        - neck + spine injuries, NEXUS

                                        - chest injuries:  flail

                                                          aortic rupture

                                                          hemo + pneumothorax

                                                          pulmonary and cardiac contusion

                                        - abdominal injuries: blunt/penetrating

                                        - common fractures and dislocations

6.        Chest pain                                - MI/UA

                                                - aortic dissection

                                                - pericarditis

                                                - pulmonary embolism

                                                - esophageal rupture

                                                - spontaneous pneumothorax

                                                -cardiac tamponade

7.        Abdominal pain                        - emergent diagnoses only

8.        Acid-base balance                        - blood gas interpretation

9.        Endocrine emergencies                - hypoglycemia

                                                - DKA

                                                - hyperosmolar non-ketotic state

                                                - thyroid storm

                                                - adrenal crisis

10.        Neurologic emergencies                - seizures and status epilepticus

                                                - stroke syndromes

                                                - headache

                                                - syncope and vertigo

                                                - motor weakness

11.        Infectious emergencies                - sepsis

                                                -meningitis

                                                - choice of antibiotics

12.        GI Bleeds                                -upper GI bleeds

                                                -lower GI bleeds

13.        GU emergencies                        - urinary retention

                                                - renal colic

                                                - hematuria

- testicular pain - torsion + epididymitis

                                                - urethritis

14.        Gynecologic emergencies                - vaginal bleeding

                                                - ectopic pregnancy

                                                - PID

15.        Alcohol related illness                        - withdrawal/DT’s

                                                - Wernicke’s encephalopathy

                                                - gastritis/pancreatitis

                                                - hepatic encephalopathy

16.        ENT emergencies                        - epistaxis

                                                - sore throat and airway obstruction

17.        Ophthalmologic emergencies                - the red or painful eye

                                                - blunt/penetrating eye trauma

                                                - acute visual loss

18.        Poisoning + Drug Overdose                - general treatment

                                                - ASA

                                                - acetaminophen

                                                - sedative - hypnotic

- cholinergic

- tricyclic antidepressants

19.        Environmental Emergencies                - hypothermia/hyperthermia

                                                - near drowning

                                                - burns

20.        Anaphylaxis

21.        Bites and Stings  - animal bites

- rabies prophylaxis

22.        Family Violence                        - child, spouse, elderly abuse

23.        Psychiatric emergencies                - violent patients

24.        Pediatric emergencies                - respiratory distress

                                                - fever workup and meningitis

                                                - dehydration

                                                - abdominal pain

25.        Orthopedic emergencies

a)  General principles

                - differentiation of soft tissue injuries: contusions/sprains/strains

                - differentiation of fractures/subluxation/dislocations

                - extremity infections: cellulitis/lymphangitis/necrotizing fasciiitis

                - compartment syndrome

                - acute arthritis

-examination of the hand

b)  Hand and wrist injuries and infections

                - scaphoid fracture

                - felon, paronychia, subungual hematoma

                - boutonniere deformity, mallet finger

                - boxer’s fracture

                - Colles fracture

                - human bites

                - phalangeal fractures + dislocations

c)  Upper extremity trauma

- radial head fracture

                - Nursemaid’s elbow

                - supracondylar fracture of humerus

                - proximal humerus fractures

                - acromio-clavicular separation

                - shoulder dislocations

                - bursitis/tendinitis of the shoulder

                - clavicle fractures

d)  Pelvis and hip injuries

- potential blood loss

- associated injuries

e)  Lower extremity trauma

- femoral fractures

                - ligamentous and meniscal injuries of the knee

                - ankle sprains, fractures and associated injuries

26.        Wound Management                - tetanus prophylaxis

This is a list of procedures that you should read about (indications, contraindications, method, complications and treatments).  You will be able to assist or perform many of these during your rotation.  This does not mean that you will get to perform all of them.   In fact, due to the critical nature of many of our patients you will most likely not be able to perform the more invasive procedures.

        Airway management

        Defibrillation and cardioversion

        Cervical spine immobilization

        Intravenous access - peripheral + central

        NG tube placement and gastric lavage

        ABG sampling

        Chest tube insertion

        Suture techniques

        Splinting and bandaging

        Incision + drainage of abscesses

        Slit lamp use

        Nasal packing

        Foreign body removal