**July 23, 2019 AHD Objectives**

**Infectious Disease Emergencies:**

1. Make a table and compare/contrast the clinical syndromes and CSF studies (cell count, differential, protein, and glucose values) of viral meningitis, encephalitis, and bacterial meningitis.
2. Make a differential diagnosis of the infectious organisms to consider in viral meningitis, encephalitis, and bacterial meningitis. Know the appropriate diagnostic test(s) to order on the CSF to confirm the diagnosis.
3. Describe the appropriate management (IN ORDER of priority) for the patient in whom you are concerned about bacterial meningitis. Know the circumstances in which a CT scan of the brain should be ordered before a lumbar puncture is performed.
4. Make a table and compare/contrast the clinical spectrum of soft tissue infection including erysipelas, cellulitis, and necrotizing soft tissue infection. Know the differential diagnosis of the infectious organisms to consider in each of these infections.
5. Describe the appropriate empiric therapy, imaging considerations, and need for surgical intervention in the management of these infections.

**Acute Stroke Diagnosis and Management:**

1. Know the appropriate imaging tests to order in the patient with acute stroke.
2. Know the evidence for IV-TPA in the management of acute ischemic stroke and the guidelines for its administration.
3. Know the evidence for aspirin therapy in the management of acute ischemic stroke (dose, time of initiation).
4. Know the appropriate management of acute stroke in a patient who presents with atrial fibrillation.
5. Know the appropriate management of a patient with acute ischemic stroke who presents outside the window for IV-TPA. Identify the circumstances in which catheter directed clot retrieval is indicated and when it is contraindicated.

**Sepsis:**

* + - 1. Define sepsis and septic shock according to the Third International Definition published in 2016 and know the mortality associated with each of these conditions.
      2. Describe the SOFA score and qSOFA score.
      3. Describe the management of sepsis including the recommended volume of resuscitation, type of fluid, timing of antibiotic therapy, and recommended use of serum lactate and procalcitonin measurements.
      4. Know the recommended vasopressor in septic shock.