**July 10, 2018 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.

**Acute Coronary Syndrome:**

1. Describe the pathophysiology of STEMI and NSTEMI. Specifically describe the difference between type 1 and type 2 NSTEMI.
2. Describe the TIMI score for STEMI and NSTEMI.
3. Know the appropriate management of STEMI and NSTEMI based on ACC/AHA guidelines.
4. Describe the abnormal values for high-sensitivity troponin assays, and how to use the new assay in the evaluation of a patient with chest pain who rules out, rules in, and is in the indeterminant range for this biomarker.