**March 7th Learning Objectives**

9:30-10:15 Lecture 1 COPD- Dr. Puebla

10:15-11 Lecture 2 ABG Interpretation- Dr. Khan

11:30- 12:15 Lecture 3 Pulmonary Hypertension- Dr. Shamid-deen

**Lecture 1:** 9:30 - 10:15am COPD- Dr. Puebla

1. Define COPD based on pathophysiology and spirometry.

2. Describe the different stages of COPD severity by Gold criteria, including MMRC and how COPD assessment test is utilized.

3. Know the recommended treatment for each stage of COPD severity.

4. Describe the diagnosis and management strategy of COPD exacerbation.

*Readings*: Lancet- COPD

**Lecture 2:**10:15 – 11am ABG Interpretation- Dr. Khan

1. List the six steps in interpreting an ABG.
2. Understand how to tell which disorder is the *primary disorder* in a mixed acid-base disorder when the PaC02 and HC03 change in the same direction.
3. Describe the evaluation of a high anion gap acidosis and know several causes of high AG acidosis using the mnemonic GOLD MARRK. Understand the importance of correcting the anion gap for albumin and measuring a serum osmolar gap.
4. Describe the evaluation of a normal anion gap acidosis and list several causes. Describe the uses of the urinary anion gap and know when the urine anion gap is unreliable
5. Describe the evaluation metabolic alkalosis and list several causes.

*Readings*: NEJM Acid-Base Disturbances

**Lecture 3:**11:30 - 12:15pm Pulmonary Hypertension- Dr. Shamid-deen

1. Define the clinical manifestations of pulmonary hypertension.
2. Describe the tests used to make the diagnosis of PAH and the appropriate work up to order in the evaluation of a patient with a new diagnosis of PAH.
3. Discuss the importance of a right heart catheterization in the evaluation of PAH.
4. Describe the standard treatments for PAH including the endothelin receptor antagonists, the prostacyclins, and the phosphodiesterase type 5 inhibitors and their side effects.

*Reading*: Mayo Proceedings- Pulmonary Hypertension