**April 11th Learning Objectives**

9:30-10:15 Lecture #1 T1DM

10:15-11am Lecture #2: T2DM

11:30- 12:15 Lecture #3: Calcium and Parathyroid Disease

**Lecture 1:** 9:30 - 10:15am T1DM

1. Classification of diabetes and diagnosis.
2. Understand new technologies for management of DM including continuous glucose monitoring (CGM) and insulin pump
3. Diagnosis and management of DKA

Readings: *Annals of Internal Medicine- T1DM*

**Lecture 2:** 10:15 – 11am T2DM

1. Describe the updated algorithm in the management of type 2 DM
2. Understand the mechanism of action and benefits of metformin, GLP-1 Agonist, SGLT-2, sulfonylureas, TZDs
3. Describe the microvascular and macrovascular complications of DM.

Readings: *Nature Primer- T2DM*

**Lecture 3:** 11:30 - 12:15pm Calcium and Parathyroid Disease

1. Where are the primary effects of vitamin D and PTH, respectively?
2. Describe and draw the feedback loop between the GI tract, parathyroids, bones, serum blood level, and kidneys.
3. Describe the signs and symptoms of hypercalcemia.
4. Describe the indications for parathyroidectomy in primary hyperparathyroidism.
5. Describe the differential diagnosis for hypocalcemia, and how the PTH, phosphorous, and vitamin D levels would be different.

Readings: *MKSAP* *Calcium and PTH Disorders*