Module Concepts

**Week 1 The Pituitary and Adrenal**
- Physiology of pituitary hormones
- Adrenal steroid synthesis and biochemistry
- List differential, workup and treatment for the endocrine disorders
  - Pituitary tumors – prolactinoma, acromegaly, cushings
  - Cushing’s disease – pituitary and adrenal
  - Diabetes insipidus
  - Adrenal insufficiency – primary and secondary
  - Hyperaldosteronism
  - Phaeochromocytoma
  - Congenital adrenal hyperplasia
- Growth disorders

**Week 2 Thyroid and Calcium and Bone Metabolism**
- Calcium homeostasis
- Bone Metabolism
- List differential, workup and treatment for the endocrine disorders
  - Hyperthyroidism
  - Hypothyroidism
  - Thyroid nodules
  - Hypocalcemia
  - Hypercalcemia
  - Vitamin d deficiency
  - Primary vs secondary hyperparathyroidism
  - Osteoporosis
  - Osteomalacia

**Week 3 Diabetes**
- Able to discuss the physiology and pathophysiology of disorders of glucose metabolism
- List differential, workup and treatment for the endocrine disorders
  - Type 1DM
  - Type 2DM

**Module Objectives**

- obj A Demonstrate knowledge of normal endocrine/reproductive structure and function of the human body(2.1).
- obj B Demonstrate knowledge of the pathogenesis and pathophysiology of endocrine/reproductive disease and disorders(2.2).
- obj C Demonstrate knowledge of the pharmacotherapeutic modalities for common endocrine/reproductive conditions and disorders(2.4).
- obj E Understand the epidemiology of common endocrine/reproductive conditions and disorders(2.6).
- obj D Demonstrate knowledge of the clinical manifestations of common endocrine/reproductive disease and disorders(2.6).
- obj F Demonstrate the skills of clinical reasoning and clinical problem solving(3.6).
- obj G Construct appropriate management strategies for common endocrine/reproductive conditions and disorders(3.7).
- obj H Demonstrate the ability and commitment to continuously improve medical knowledge and skills(3.10).

**Content Overview**

**Week 1: Overview/Adrenal/Pituitary**
- Normal Pituitary & Adrenal Histology
- Pituitary Disorders
- Adrenal Disorders
- Synthetic Adrenal Cushings Case
- CAI Module Online

**Week 2: Thyroid/Parathyroid/Bone Metabolism/Calcium**
- Normal Thyroid & Parathyroid Histology
- Thyroid Disorders
- Calcium Physiology
- APS
- Review of Endocrine Problems
- CAI Module Online

**Week 3: Diabetes and Familial Lipid Disorders**
- Normal Endocrine Pancreas Histology
- Diabetes Type 1 and 2
- Integration & Metabolism
- Diabetes
- Hypercholesterol Cases
- CAI Module Online

**Week 4: General Reproduction and Development (Gametogenesis/Hormones)**
- Embryology of the Reproductive System
- Infertility
- Menstrual Cycle / Menopause
- Normal Female Sexual Function
- Normal/Delayed/Precocious Puberty
- Normal Female Sexual Function
- Development Online

**Week 5: Female Reproductive System (Structure & function normal and abnormal)**
- Osteoporosis
- Bone Metabolism
- Diabetes Drugs
- Pharmacology: Teratogens
- Hypoglycemia Cases
- Hypercholesterol Cases

**Week 6: Pregnancy and Placenta**
- Placental Histology
- Pathology of the Breast
- Biochemistry: Prostaglandins,
- Maternal Physiologic Alterations during Pregnancy
- Statistics in Gynecology

**Week 7: Exam Week**