



## IMED 613 Endocrinology

### **Elective Description**

This elective in endocrinology and metabolism may provide students with inpatient consultation experience or out-patient endocrinology exposure. Focus will be on pathogenesis and management of all endocrine hypothalamic, pituitary, adrenal, thyroid, parathyroid, and gonadal diseases as well as syndromes of diabetes mellitus and hyperlipidemia.

Credit: 2-4 semester credits

Prerequisite: IMED 500

### **Entrustable Professional Activities**

As a fourth-year student, the focus of skills development are those tasks important for entering residency training:

- Gather a history and perform a physical exam
- Prioritize a differential diagnosis following a clinical encounter
- Recommend and interpret common diagnostic and screening tests
- Enter and discuss orders and prescriptions
- Document a clinical encounter in the patient record
- Provide an oral presentation of a clinical encounter
- Form clinical questions and retrieve evidence to advance patient care
- Give or receive a patient handover to transition care responsibility
- Collaborate as a member of an inter-professional team
- Recognize a patient requiring urgent or emergent care and initiate evaluation and management
- Obtain informed consent for tests and/or procedures
- Perform general procedures of a physician
- Identify systems failures and contribute to a culture of safety and improvement

### **General Clerkship Objectives**

Medical Knowledge

- Know the pathophysiology of the following:
  - Diabetes – Type DM 1 and Type DM 2
    - Review the physiology of insulin secretion
    - Know the clinical pharmacology of antihyperglycemic drugs
    - Know the role of autoimmunity plays in the development of type 1 diabetes mellitus
    - Know the concept of insulin resistance
    - Know the principles of management of type 1 diabetes, type 2 diabetes and diabetic ketoacidosis
  - Thyroid

- Know how the secretion of thyroid hormone is regulated and the kinetics of thyroid hormone release
- Know the principles thyroid hormone replacement
- Be able to discuss the principles and management of hyperthyroid states
- Adrenal
  - Know the pharmacological potencies of replaced steroids
  - Know role stress plays in the replacement of corticosteroids
  - Review the physiology of the pituitary adrenal axis
  - Know the etiology and treatment for SIADS
- Dyslipidemia
  - Review about classification of dyslipidemias
  - Review about pathology of dyslipidemias
  - Learn the various treatments available
  - Learn NCEP guidelines for dyslipidemias:  
<https://www.nhlbi.nih.gov/files/docs/guidelines/atp3xsum.pdf>
- PCOS
- Impotence

#### Patient Care

- Take a good history with focus on growth and development, weight, family members, hormone use and do a thorough physical exam – focus on height, weight, skin thickness, hair growth, exophthalmoses, voice changes, genitalia.
- Become familiar with suppression and stimulation tests and imaging procedures.
- Be familiar with need for life style changes and health maintenance needs regarding diabetic diet, sodium restriction, weight reduction, exercise.

#### Interpersonal and Communication Skills

- Demonstrate caring and respectful behaviors when interacting with patients.
- Demonstrate cultural sensitivity
- Communicate clearly with caregivers, nursing staff, and others

#### Professionalism

- Communicate respectfully with patients who do not fully adhere to their treatment plan.
- Apply ethical principles including patient autonomy, privacy, and confidentiality.
- Demonstrate self-knowledge, recognize limits of knowledge/experience and seek help appropriately.
- Demonstrate commitment to professional responsibilities and sensitivity to a diverse patient population

#### Practice-Based Learning

- Encourage lifestyle changes to support wellness (weight loss, smoking cessation, safe sexual practices, exercise, activity, nutrition, diet).

#### Systems-based Practice

- Discuss the importance of a cost-effective approach to the diagnostic work-up.

## **RECOMMENDED TEXTBOOK**

Harrison's Principles of Internal Medicine

## **Evaluation**

The evaluation will include the entrustable professional activities. The clerkship preceptor will evaluate those relevant to this clerkship experience.

## **GRADES**

This elective is graded Satisfactory/Unsatisfactory.

## **POLICIES**

### **ACADEMIC DISHONESTY**

The University holds its students to the highest standards of intellectual integrity. Therefore, the attempt of any student to pass any examination by improper means, present work which the student has not performed or aid and abet a student in any dishonest act may result in disciplinary action including immediate dismissal. Any student witnessing or observing a perceived violation of academic dishonesty is required to report it as outlined in the Guidelines. Students failing to report an observed violation may also receive disciplinary action.

### **ATTENDANCE POLICIES**

Attendance of lectures and laboratories is based on the University's stated attendance policy. Refer to the Student handbook for more information.

### **CONDUCT**

The University expects all students to be responsible individuals who possess the highest standards of integrity, honesty and personal conduct. These traits are prerequisites to independent learning, professional development, the successful performance of academic and clinical assignments, and the conduct of one's personal life. Accordingly, students are expected to adhere to a standard of behavior consistent with the University's high standards at all times off and on campus. Compliance with institutional rules and regulations, in addition to city, state and federal laws, is expected.

### **COPYRIGHT POLICY**

Trinity Medical Sciences University must respect and observe the right and privileges of copyright holders, obey the United States Copyright Act and preserve the integrity of its internal network systems. All students must sign the technology and software use policy. A copy of this policy may be obtained from the Information and Technology Department.

### **DRESS CODE**

All students are expected to maintain the highest standards of professional appearance at all times. During years one and two and while on campus. Medical students are required to wear scrubs or white coats with appropriate dress. Appropriate dress for clinical students includes business slacks with open-collar shirt for men, and business slacks or skirt with professional shirt or sweater for women.

## **Trinity School of Medicine Faculty Contact Information**

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