

## 660G PEDIATRIC ENDOCRINOLOGY

This rotation is not accepting international students

All students must get prior approval for all CHOC based rotations.

**Course Description:** The student will attend all pediatric endocrine clinics at the two main sites (UC Irvine Medical Center and MCH). At these clinics, the student will take an initial history and perform a physical exam, present to the attending at that clinic, and assist in forming treatment, laboratory test and follow up plans. The student will attend noontime pediatric conferences and pediatric grand rounds. At the conclusion of the rotation, the student will make a brief presentation on a topic of chosen interest with review of the literature.

**Department:** Pediatrics

**Prerequisites:** UC Irvine students must have successfully completed the basic science curriculum and their Pediatrics Core Clerkship. Extramural students must be in their final year of undergraduate medical education. All students must get prior approval for all CHOC based rotations.

**Restrictions:** The student must have the elective directors approval prior to enrollment. This rotation is not accepting international students

**Elective Director:**

Millers-based rotation: Rebecca Hicks, M.D.

CHOC-based rotation: Christina Reh, M.D.

**Who to Report to on the First Day:**

Frank Cruz Student Coordinator will contact with further details. [fcruz@uci.edu](mailto:fcruz@uci.edu) (714)456-5631.

**Location to Report on First Day:**

Millers-based rotation: Frank Cruz Student Coordinator will contact with further details. [fcruz@uci.edu](mailto:fcruz@uci.edu) (714)456-5631.

CHOC-based rotation: Frank Cruz Student Coordinator will contact with further details. [fcruz@uci.edu](mailto:fcruz@uci.edu) (714)456-5631.

**Site:** CHOC and Miller Children's Hospital

**Site Coordinator:** Frank Cruz [fcruz@uci.edu](mailto:fcruz@uci.edu) (714)456-5631

**Periods Available:** Contact Coordinator

**Duration:** Minimum of 4 weeks

**Number of Students:**

Millers-based rotation: 1

CHOC-based rotation: 1

**Scheduling Coordinator:** UC Irvine students please email [comsched@uci.edu](mailto:comsched@uci.edu) or call (714) 456-8462 to make a scheduling appointment. Please read the following information carefully. Any student enrolled

at a U.S. LCME medical school will use VSAS to apply. To apply please refer to this website <http://www.aamc.org/programs/vsas/>

**Course Objectives:** At the end of this rotation the student will be ...

- Knowledgeable about the principles and management of pediatric endocrine illnesses
- Able to recognize normal and abnormal patterns of growth
- Able to characterize the importance of bone age in the different diagnosis of growth problems
- Able to review the ages and stages of normal puberty
- Able to define and review the differential diagnosis of precocious and delayed puberty
- Able to outline an approach to the problem of failure to thrive
- Understand thyroid function tests and of causes of disordered thyroid function in childhood
- Discuss keys to recognition of congenital adrenal hyperplasia as one of the causes of intersex in newborns
- Knowledgeable in the overview of the causes, characterizations and consequences of neonatal hypoglycemia
- Able to identify patterns of disease presentation as related to various electrolyte disturbances.
- Assess anomalies of calcium/phosphate metabolism and the skeletal system
- Able to highlight issues fundamental to the understanding of metabolic bone disease and rickets
- Knowledgeable of the pathogens and management of type I diabetes
- Able to review the diagnosis and treatment of diabetic ketoacidosis.

**Key Topics:**

- Growth and development
- Diabetes Mellitus in childhood
- Pediatric disorders of thyroid function
- Normal and abnormal puberty
- Calcium and phosphorus/Rickets
- Glucocorticoid hormones
- Endocrine causes of Hyponatremia
- Cushings Syndrome (hypercortisolism)
- Intersex
- CAH recognition and management
- Childhood overweight
- Neonatal hypoglycemia

**Competencies:**

- Understand the medical information and develop the medical skills necessary to perform an appropriate history and physical exam for patients with pediatric endocrine concerns.
- Development of differential diagnoses for each of the endocrine topics listed above
- Outline diagnostic and treatment objectives for each of the endocrine topics listed above
- Work with others on the pediatric endocrine team in a professional, competent manner always keeping patient best interests as first priority
- Do extra reading from the medical literature and present one topic of review/research interest to members of the pediatric endocrine faculty
- Become familiar with pediatric endocrine handouts and test practice materials

**Attitudes and Commitment:**

- Professionally appropriate
- cognitively informed

**Educational Activities**

Monday	MCH
Tuesday AM	MCH Specialty
Tuesday PM	SMMC Private Office
Wednesday AM	UCIMC Pavilion I
Thursday	MCH
Friday AM	UCIMC Pavilion I
Friday PM	FV Clinic

**What students should do to Prepare for the Rotation:** Obtain handout materials from Site Coordinator.

**Clinical Responsibilities of the Student:** The attending will be responsible for all patient care

**Patient Care Responsibilities:** The attending will be responsible for all patient care, but the student will assist

**Call Schedule of the Student:** None

**Procedures to be Learned by the Student:** None

**Percentage of Time Student will Participate in Ambulatory Setting:** 50%

**Standardized Instructional Material:** Students are provided with standardized case studies that they review and discuss with the faculty member. Cases include

- Growth
- Diabetes Mellitus in childhood
- Pediatric disorders of thyroid function
- Normal and abnormal puberty
- Calcium and phosphorus/Rickets
- Glucocorticoid hormones
- Endocrine causes of Hyponatremia
- Cushings Syndrome (hypercortisolism)
- Intersex
- CAH recognition and management
- Childhood overweight
- Neonatal hypoglycemia

**Conference/Lecture/Small Group Sessions:** There are no standardized lectures for this elective

**Course Hours Weekly Summary:**

2.5	Case Based
.5	Computer Assisted Learning
5.0	Conferences
2.0	Grand Rounds

.5	Examination
25.0	Inpatient
.5	Laboratories
2.0	Lectures
1.50	Review
1.0	Other
40.0	Total

**Content Theme Integration:** None

**Recommended Readings:**

- Clinical Pediatric Endocrinology, SA Kaplan ed., WB Saunders, 1990.
- Pediatric Endocrinology F. Lifshitz ed. Dekker, Inc. 1990
- Pediatric Endocrinology J. Bertrand ed. Williams & Wilkins, 1993

**Official Grading Policy:** The student will receive a grade of Honors, Pass or Fail. The student's final grade will be submitted on the standard UC IRvine elective form. The student will be evaluated by attendings and residents in the area of clinical performance, clinical skills, formal presentation, learning accomplishments, attendance, attitude and effort. The student will be provided with midcourse feedback by the attending. If the student fails the elective a grade of "F" will be permanently recorded on his/her transcript. The student can repeat the course for a second grade, however, the "F" will not be removed from the transcript.