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 noon 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. 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: Mario Brakin, M.D., UC Irvine Medical Center, Department of Pediatrics, 3rd Floor, Room 336, Building 2, 101 The City Drive South, Orange Ca 92868, (714) 456-5631, FLCuller@uci.edu
CHOC-based rotation: Mark Daniels, M.D.

Instructing Faculty: Mario Brakin, M.D., David Mosier, M.D., Mary Haghi, M.D., Ajanta Naidu, M.D.

Course Website: None

Who to Report to on the First Day:
Millers-based rotation: Dr. Mario Brakin or Dr. Ajanta Naidu

Location to Report on First Day:
Millers-based rotation: Miller Children’s Hospital (In-patient Rounds)
CHOC-based rotation: Please contact Pediatrics Elective Coordinator, pedselective@uci.edu (714) 456-5631

Time to Report on First Day:
Millers-based rotation: Call Dr. Brakin’s Office at (562) 595-0166
CHOC-based rotation: Please contact Pediatrics Elective Coordinator, pedselective@uci.edu (714) 456-5631

Site Coordinator: Pediatrics Elective Coordinator, pedselective@uci.edu (714) 456-5631 or (714) 456-8469, fax (714) 456-6660

Site: CHOC and Miller Children’s Hospital

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 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/](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
- Glucorticoid hormones
- Endocrine causes of Hyponatremia
- Cushing 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

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<tr>
<th>Day</th>
<th>Location</th>
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<tr>
<td>Monday</td>
<td>MCH</td>
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<tr>
<td>Tuesday AM</td>
<td>MCH Specialty</td>
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<tr>
<td>Tuesday PM</td>
<td>SMMC Private Office</td>
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<tr>
<td>Wednesday AM</td>
<td>UCIMC Pavilion I</td>
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<tr>
<td>Thursday</td>
<td>MCH</td>
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<tr>
<td>Friday AM</td>
<td>UCIMC Pavilion I</td>
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<tr>
<td>Friday PM</td>
<td>FV Clinic</td>
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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
- Glucorticoid 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:

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<thead>
<tr>
<th>Hours</th>
<th>Activity</th>
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<tbody>
<tr>
<td>2.5</td>
<td>Case Based</td>
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<tr>
<td>0.5</td>
<td>Computer Assisted Learning</td>
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<tr>
<td>5.0</td>
<td>Conferences</td>
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<tr>
<td>2.0</td>
<td>Grand Rounds</td>
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</table>
.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:

- 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 midterm 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.