### Course Description
After completing this elective, the student will have a better understanding of pathological states related to general pediatrics endocrinology and how to distinguish them from normal variants including a basic understanding of the correct laboratory and radiographic evaluation. They will also have a basic understanding of the most common therapeutic interventions that endocrinologist prescribe. Finally, they will acquire a better understanding for the complexity involved in the care of children with diabetes.

### Course Objectives
- Describe normal patterns of linear growth and weight gain, applying this to evaluation of variations in growth patterns.
- Describe physiologic events in puberty and Tanner staging, differentiating between normal, precocious vs premature thelarche and adrenarche, and delayed puberty.
- Describe the pathophysiology of and recognition of these conditions:
  - Abnormal newborn thyroid screen (initial evaluation)
  - Delayed puberty due to a chronic disease or anorexia nervosa
  - Familial short stature, constitutional delay of growth or puberty
  - Transient hypocalcemia and hypoglycemia in the newborn
- Discuss the initial management for:
  - Adrenal insufficiency
  - Ambiguous genitalia
  - Delayed or precocious puberty
  - Hirsutism
  - Hypoglycemia in childhood and adolescence
  - Polycystic ovaries and hyperandrogenism in girls
  - Thyroid dysfunction and goiters
  - Turner syndrome
- Recognize the initial presentation, determine and correctly interpret laboratory tests for screening for the diagnosis of diabetes mellitus in a preschool or school age child.
- Discuss the basic barriers to good diabetes care in children and adolescence.

### Course Activities
Students will participate in both pediatric endocrinology and diabetes outpatient clinics, as well as round with a pediatric attending in inpatient endocrinology and diabetes consults. Students will receive verbal feedback at the mid-term of the rotation, and a formal, written evaluation at the end of the elective.
<table>
<thead>
<tr>
<th><strong>Course Schedule Requirements</strong></th>
<th>No on-call requirement. Student is present during usual clinical hours (8:00am – 5:00pm, Monday – Friday, excluding holidays as determined by the ECU calendar).</th>
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</thead>
<tbody>
<tr>
<td><strong>Duration</strong></td>
<td>2 Weeks</td>
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<tr>
<td><strong>Location</strong></td>
<td>Pediatric Specialty Clinic/James and Connie Maynard Children’s Hospital</td>
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<tr>
<td><strong>Designation</strong></td>
<td>Elective</td>
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<tr>
<td><strong>Revised</strong></td>
<td>08.23.2019</td>
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