# Pediatric Endocrinology

<table>
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<tr>
<th>Course Director</th>
<th>Jennifer Sutter, MD</th>
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<tr>
<td>Duration</td>
<td>2 weeks (can be selected twice for 4 weeks)</td>
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## Course Goals

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.

## Educational Objectives

1. Describe normal patterns of linear growth and weight gain, applying this to evaluation of variations in growth patterns.
2. Describe physiologic events in puberty and Tanner staging, differentiating between normal, precocious vs premature thelarche and adrenarche, and delayed puberty.
3. 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
4. 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
5. 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

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<th>Course Readings</th>
<th>Students will be provided with individualized, patient-related readings from primary literature during the elective.</th>
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| Course Activities/Experience | - Lectures, clinics, conferences to be attended?  
  o Pediatric Endocrinology and Diabetes Outpatient Clinics  
  o Round with Pediatric Attending to staff Inpatient Endocrinology and Diabetes Consults  
  o Pediatric Grand Rounds on Wednesday mornings at 7:30am.  
- In what location will students be observed on this elective?  
  o Pediatrics Endocrinology and Diabetes Outpatient Clinics at the Pediatric Specialty Clinic Building  
  o James and Connie Maynard Children’s Hospital  
- How will students receive mid-course, formative feedback on their performance?  
  o Verbal feedback will be provided to the student at the mid-rotation point  
  o Formal written evaluation will be completed at end of the elective  
- Oral presentation, written assignments required?  
  o None  
- Research requirement?  
  o None |
| On Call Requirements | 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). |
| Student Performance & Assessment | The student’s performance will be assessed by observation of their clinical care of patients including their ability to complete a history and physical, develop a working differential, request the appropriate labs and lead a discussion regarding the clinical case. The student will be asked to review literature that is pertinent to encountered clinical cases.  

Students completing the rotation as a two-week required Core Clinical Selective will be assigned a grade of Pass or Fail. Students completing the rotation as an M4 elective, either two or four weeks in duration, will be assigned a letter grade. |
| Other Info | Revised 09.27.2018 |