**THIRD YEAR ELECTIVE TITLE**

**PEDIATRIC ENDOCRINOLOGY**

**COURSE NUMBER**

PEDS 8870

**LOCATION**

Jersey Shore University Medical Center

---

**ELECTIVE DIRECTOR**

S. Eapen, M.D.
C. Meyers-Seifer, M.D.

**ELECTIVE FACULTY**

Jersey Shore U. Medical Center Faculty

**ELECTIVE CONTACT**

Kerri Whitmore
Jersey Shore U. Medical Center
1945 Rt. #33
Neptune, NJ 07754

**CONTACT PHONE/FAX/EMAIL**

Ph. 732-776-4267
Fax 732-776-4867
kwhitmore@meridianhealth.com

---

**BLOCKS AVAILABLE**

All

**DURATION/WEEKS**

Min 2; Max 4

**HOURS PER WEEK**

40-50

**STUDENTS**

Max 1***

---

**LECTURES/SEMINARS**

Yes

**OUTPATIENT**

Yes (80%)

**INPATIENT**

Yes

**HOUSESTAFF**

Yes

---

**NIGHT CALL**

No

**WEEKENDS**

No

**LAB**

No

**EXAM REQUIRED**

No

*** NOTE: PRIOR APPROVAL IS NECESSARY FOR REGISTRATION OF THIS ELECTIVE! ***

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**

To provide a thorough grounding in the essentials of Pediatric Endocrinology that will assist the students in managing pediatric endocrine emergencies successfully. The elective will also focus on the diagnosis and management of the common endocrine disorders encountered in the Pediatric Endocrine clinic.

**OBJECTIVES**

1. To learn about the diagnosis and management of Pediatric Endocrine emergencies like diabetic ketoacidosis, hypoglycemia, acute hypocalemia, thyroid storm, adrenal failure, fluid management in diabetes insipidus and syndrome of inappropriate ADH secretion (SIADH).

2. To differentiate between normal and abnormal growth patterns. To learn about causes of abnormal growth, and to differentiate between endocrine and non-endocrine causes of growth failure. To learn about the evaluation and management of poor growth and short stature.

3. To learn about the newborn screening test and the diagnosis of congenital hypothyroidism. To learn about thyroiditis, polyglandular autoimmune disease, hypothyroidism, hyperthyroidism, thyroid cancer and multiple endocrine neoplasia. To learn about the use of thyroid function tests in the evaluation of thyroid disease.

4. To learn about the diagnosis and management of congenital adrenal hyperplasia, adrenal failure, Cushing syndrome and disease, pheochromocytoma and androgen secreting adrenal tumors.

5. To learn about hypo and hyperparathyroidism, causes of hypercalcemia and hypocalcemia and their management. Learn about the calcium sensing receptor of the parathyroid gland. Learn about the causes of, diagnosis and management of rickets.

6. To learn about precocious and delayed puberty and their appropriate treatment. Learn how to evaluate and treat primary and secondary amenorrhoea and irregular periods. Learn about ovarian hyperandrogenism, it’s clinical manifestations and treatment options.

OVER
7. To learn about various syndromes and the role of the endocrinologist in their management. These syndromes include Turner syndrome, Prader-Willi syndrome, Kleinfelter syndrome, William syndrome, Russel-Silver syndrome and Bartter syndrome.

8. To learn about disorders of the hypothalamus and the anterior pituitary gland. Learn about hypopituitarism and proactinomas, their assessment and management.

9. To learn how to evaluate and manage ambiguous genitalia.

10. To learn about outpatient management of diabetes mellitus (type 1 and 2), as well as the management of acute complications of diabetes mellitus at home.

**Brief Description of Activities**

Face to face contact with patients in the outpatient clinic. Direct learning on the pediatric floors. Spend time with the diabetes nurse educator to learn about aspects of diabetes care, including blood sugar testing, insulin administration and the emergency administration of glucagon. Spend time with the nutritionist to learn about the importance of nutrition in the management of obesity, diabetes and hyperlipidemia. Learn how to use an orchidometer. Learn how to measure lying and standing heights properly. The student will select and present a journal article with relevance to Pediatric Endocrinology and discuss it at the end of the elective.

**Method of Student Evaluation**

Direct supervision

**Are There Any Prerequisites for this Elective?**  No