	All Goals and Objectives for this rotation are identical across all PL years**	
Pr	rimary Goals for this Rotation	Competencies
Ur ły	OAL I: Prevention, Counseling and Screening (Endocrine). Iderstand the role of the pediatrician in preventing endocrine sfunction, and in counseling and screening individuals at risk for these seases.	
	Identify the individual at risk for developing endocrine dysfunction through routine endocrine counseling and screening of all patients and parents, addressing:	
	 a) Normal variations in growth (including genetic short stature and constitutional growth delay) b) Expected and normal variations in body changes during puberty (information should be ethnic group specific) c) The importance of vitamin D supplements in breast-fed infants and select populations with low intake of vitamin D, calcium or phosphorus d) Diabetic screening for patients with symptoms of polyuria, polydipsia and polyphagia e) Diabetic, hypercholesterolemia and hypertriglyceridemia screening for any child who is obese f) Newborn metabolic screening, when appropriate 	K, PC, IPC, P
2.	Provide preventive counseling to parents and patients with specific endocrine conditions about: a. The need for influenza vaccination in children with certain endocrine	
	disorders (hypoadrenalism, diabetes mellitus, hypopituitarism, chronic steroid use, Cushing syndrome)	
	 b. The association of chronic steroid use and decreased bone density c. The importance of diabetes control for prevention of long-term complications such as retinopathy, neuropathy, nephropathy and gastroparesis 	K, PC, IPC, P
	d. The value of support groups and camps for children with diabetes mellituse. Glucocorticoids and growth suppression	
10	OAL II: Normal vs. Abnormal (Endocrine). Differentiate between ormal, physiologic deviations from normal, and pathological states lated to endocrinology.	
	Describe the normal developmental patterns of statural growth and weight gain, along with normal variations. Describe body proportions that can help to differentiate proportionate from disproportionate short stature.	K
2.	Perform Tanner staging (SMR) and explain the sequential physiologic events associated with puberty.	K, PC
3.	Identify early puberty and differentiate it from premature thelarche and premature adrenarche.	K, PC

4.	Describe the hypothalamus-pituitary-peripheral gland axis along with their stimulatory and inhibitory feedback mechanisms.	K
5.	Describe calcium and phosphorus homeostasis, vitamin D metabolism, parathyroid hormone functions, and their interrelationships.	К
6.	Explain the findings on clinical history and examination that suggest a disease of endocrine origin and require further evaluation and treatment. Such diseases include hypo- and hyper-thyroid states, diabetes mellitus, diabetes insipidus, rickets, obesity, hypertension, delayed or accelerated growth, early or delayed puberty, adrenal insufficiency and hyperactivity, and congenital adrenal hyperplasia.	к
7.	Interpret clinical and laboratory endocrine tests to identify endocrine disease, including: bone age, vitamin D, calcium, phosphate and alkaline phosphatase, glucose, insulin, and hemoglobin A1C, T4, free T4, TSH, parathyroid hormone, serum and urine electrolytes and osmolality, cortisol and ACTH, FSH, LH, estradiol, testosterone, cortisol, renin, adrenal androgens and precursor hormone levels, growth hormone, IGF-I, IGFBP3, imaging studies (MRI, CT Scan, Ultrasound, and thyroid scans) and bone densitometry.	к
GC	DAL III: Undifferentiated Signs and Symptoms (Endocrine).	
	aluate, treat and/or refer patients who present with undifferentiated	
_	ns and symptoms that may represent an endocrine disease process.	
	Create a strategy for determining if the following presenting signs and symptoms are caused by an endocrine disease process and determine if the patient needs treatment or referral: a) Fatigue b) Vomiting/Weight loss c) Short and tall stature d) Obesity e) Polydipsia f) Hypoglycemia g) Hyperglycemia h) Hypocalcemia i) Early or delayed puberty j) Acanthosis nigricans k) Headaches l) Dizziness m) Diplopia and blurred vision n) Polyuria	K, PC
an	DAL IV: Common Conditions Not Referred (Endocrine). Diagnose d manage endocrine conditions in patients not generally requiring	
rei	Cerral. Diagnose, explain the pathophysiology of, and manage the following endocrine	
1.	conditions:	
	 a) Abnormal newborn metabolic screening, including hypothyroidism, congenital adrenal hyperplasia, and galactosemia b) Premature adrenarche 	K, PC
	c) Premature thelarche	
	 d) Delayed puberty due to chronic disease or anorexia nervosa e) Exogenous obesity 	

	 f) Familial short stature, constitutional delay of growth or puberty g) Short stature variants not meeting criteria for hormone therapy h) Gynecomastia in a pubertal male i) Infant of mother with gestational diabetes j) Transient hypocalcemia of a newborn k) Transient hypoglycemia of a newborn 	
ini	DAL V: Conditions Generally Referred (Endocrine). Recognize, tiate management of, and refer patients with endocrine conditions at require referral.	
	· · · · · · · · · · · · · · · · · · ·	
	 a) Adrenal insufficiency b) Ambiguous genitalia, hypogonadism, and micropenis c) Central and nephrogenic diabetes insipidus and psychogenic polydipsia d) Congenital adrenal hyperplasia e) Delayed or precocious puberty f) Diabetes mellitus type I (diabetic ketoacidosis (DKA), long-term management) g) Endocrine and genetic causes of obesity h) Genetic syndromes and familial inheritance patterns with endocrine abnormalities i) Hirsutism, hyperandrogenism, and polycystic ovaries j) Hypoglycemia in childhood and adolescence k) Metabolic bone disease including rickets and skeletal dysplasias l) Abnormalities of calcium, phosphorus, or magnesium homeostasis m) Short stature variants meeting criteria for hormonal treatment n) Tall stature and excessive growth syndromes o) Thyroid dysfunction and goiters p) Diabetes mellitus type II 	K, PC, IPC, SBP
2.	Identify the role and general scope of the practice of endocrinology. Recognize situations where children benefit from the skills of specialists trained in the care of children, and work effectively with endocrine specialists to care for children with endocrinology problems.	K, PC, IPC, SBP
	DAL VI: Diabetes Mellitus (Types I and II). Diagnose and manage	
	complicated diabetes mellitus with or without the assistance of an	
ene 1.	docrinologist. List the findings on clinical history and examination that suggest a diagnosis of	
	diabetes mellitus and/or diabetic ketoacidosis.	K
2.	Identify the risk factors for developing type 2 diabetes and provide routine screening for those at elevated risk.	K, PC
3.	Differentiate Type I and Type II diabetes on the basis of findings from the clinical history, physical examination, and laboratory tests.	K, PC
4.	Diagnose diabetes mellitus and diabetic ketoacidosis from presenting symptoms and confirmatory lab tests.	К
5.	Order appropriate confirmatory diagnostic serum and urine tests for diabetes mellitus and accurately interpret the results.	K, PC

6. Compare and contrast the different preparations of insulin and describe the pharmacokinetics of each. K 7. Discuss treatment regimens available for patients with Type II diabetes, including the use of oral medications, determination of initial dosages, drug pharmacokinetics, dose adjustments based on serum glucose levels, possible aldoratory findings, and adjust subsequent dosages based on serum glucose levels. K. PC, P 8. Order appropriate IV and PO fluids to manage ketoacidosis and initial hyperglycemia with or without ketosis, realizing that insulin therapy may be required in the initial treatment of Type II diabetes. K, PC 10. Recognize immediate life-threatening complications associated with the diagnosis and treatment of abletic ketoacidosis and steps for initial treatment and stabilization. Refer for intensive care as indicated. K, PC, IPC 11. Develop an educational plan for parents and patients that provides effective education regarding diabetes, availability of support groups and diabetic camps, diet and exercise, home glucose monitoring, adjustment of insulin or oral medications dosages, use of insulin pumps, response to illness, and preventive care. K, PC, IPC, SBP 12. Develop a cost-effective plan for monitoring patients with diabetes, including use of hemoglobin A1-C levels and dialy glucose profiles to assess control, frequency, nephropatry and neuropathy. K, PC, SBP 13. Identify the clinical and biochemical indicators that necessitate consultation or referral of a child with diabetes. K, PC 2. Lotpatify the thryotidism and hypertprovidism. K, PC K, PC <t< th=""><th></th><th></th><th></th></t<>			
 including the use of oral medications, determination of initial dosages, drug pharmacokinetics, dose adjustments based on serum glucose levels, possible side effects and monitoring for safety. Order appropriate initial dosages of insulin, based on both clinical and laboratory findings, and adjust subsequent dosages based on serum glucose levels. Order appropriate IV and PO fluids to manage ketoacidosis and initial hyperglycemia with or without ketosis, realizing that insulin therapy may be required in the initial treatment of Type II diabetes. Recognize immediate life-threatening complications associated with the diagnosis and treatment of diabetic ketoacidosis and steps for initial treatment and stabilization. Refer for intensive care as indicated. Develop an educational plan for parents and patients that provides effective education regarding diabetes, availability of support groups and diabetic camps, diet and exercise, home glucose monitoring, adjustment of insulin or rail medications dosages, use of insulin pumps, response to illness, and preventive care. Develop a cost-effective plan for monitoring patients with diabetes, including use of hemoglobin A1-C levels and daily glucose profiles to assess control, frequency and severity of hypoglycemia and hyperglycemia, treatment compliance, and the development of long-term complications such as retiropathy, nephropathy and neuropathy. Identify the clinical and biochemical indicators that necessitate consultation or referrand of a child with diabetes. Moduli with diabetes. Motoria and hyperthyroidism. Explain the findings on clinical history, examination, and laboratory tests that suggest the presence of a thyroid disorder, and describe the indications for ordering, limitations and interpretations. Motoria and diagnosing a thyroid disorder, and describe the indications for ordering, limitations and interpretations.	6.		K
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disorder that includes treatment, monitoring, potential complications, and long- term follow-up.		including oral medications, irradiation and surgery, and discuss the selection criteria for each treatment modality.	K, PC
8. Identify indicators for an endocrine referral of a child with a thyroid disorder. K, PC		disorder that includes treatment, monitoring, potential complications, and long-term follow-up.	
	8.	Identify indicators for an endocrine referral of a child with a thyroid disorder.	K, PC

Procedures	
GOAL VIII: Diagnostic and screening procedures. Describe the following tests or procedures, including how they work and when they should be used; competently perform those commonly used by the pediatrician in practice.	
Appropriate growth measurement technique	
Growth curve interpretation	
Bone age: interpretation	
Bone densitometer	

Core Competencies: K - Medical Knowledge

- PC Patient Care and Procedural Skills
- **IPC** Interpersonal and Communication Skills
- **P** Professionalism
- PBLI Practice-Based Learning and Improvement
- SBP Systems-Based Practice

Performance Expectations by Level of Training

	Beginning	Developing	Accomplished	Competent
	Description of identifiable performance characteristics reflecting a beginning level of performance.	Description of identifiable performance characteristics reflecting development and movement toward mastery of performance.	Description of identifiable performance characteristics reflecting near mastery of performance.	Description of identifiable performance characteristics reflecting the highest level of performance.
Medical Knowledge	PL1	PL1, PL2	PL2, PL3	PL3
Patient Care and Procedural Skills	PL1	PL1, PL2	PL2, PL3	PL3
Interpersonal and Communication Skills	PL1	PL1, PL2	PL2, PL3	PL3
Professionalism		PL1	PL2, PL3	PL3
Practice-Based Learning and Improvement	PL1	PL1, PL2	PL2, PL3	PL3
Systems-Based Practice	PL1	PL1, PL2	PL2, PL3	PL3

Milestones assessed on this rotation are:

Patient Care 1: History						
Level 1	Level 2	Level 3	Level 4	Level 5		
Gathers information	Adapts template to	Filters, prioritizes,	Filters, prioritizes,	Recognizes and		
strictly following a	filter and prioritize	and synthesizes the	and synthesizes the	probes subtle clues		
template	pertinent positives	history to develop a	history to develop a	from patients and		
_	and negatives based	differential	differential	families;		
	on broad diagnostic	diagnosis in real-	diagnosis in real	distinguishes		
	categories or	time for	time for complicated	nuances among		
	possible diagnoses	uncomplicated or	or atypical	diagnoses to		
		typical presentations	presentations	efficiently drive		

		further information
		gathering

Patient Care 4: Clini	Patient Care 4: Clinical Reasoning					
Level 1	Level 2	Level 3	Level 4	Level 5		
Presents clinical	Generates an	Organizes clinical	Integrates clinical	Role models and		
facts (e.g., history,	unfocused	facts to compare and	facts into a unifying	coaches the		
exam, tests,	differential	contrast diagnoses	diagnosis(es);	organization of		
consultations) in the	diagnosis based on	being considered,	reappraises in real	clinical facts to		
order they were	the clinical facts	resulting in a	time to avoid	develop a prioritized		
elicited		prioritized	diagnostic	differential		
		differential		diagnosis, including		
		diagnosis		life threatening		
				diagnoses, atypical		
				presentations, and		
				complex clinical		
1				presentations		

Patient Care 5: Patie	Patient Care 5: Patient Management						
Level 1	Level 2	Level 3	Level 4	Level 5			
Reports management plans developed by others	Participates in the creation of management plans	Develops an interdisciplinary management plan for common and typical diagnoses	Develops and implements informed management plans for complicated and atypical diagnoses, with the ability to modify plans as necessary	Serves as a role model and coach for development of management plans for complicated and atypical diagnoses, with the ability to modify plans as necessary			

Practice-Based Lear	Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth					
Level 1	Level 2	Level 3	Level 4	Level 5		
Participates in feedback sessions	Demonstrates openness to feedback and performance data	Seeks and incorporates feedback and performance data episodically	Seeks and incorporates feedback and performance data consistently	Role models and coaches others in seeking and incorporating feedback and performance data		
Develops personal and professional goals, with assistance	Designs a learning plan based on established goals, feedback, and performance data, with assistance	Designs and implements a learning plan by analyzing and reflecting on the factors which contribute to gap(s) between performance expectations and actual performance	Adapts a learning plan using long-term professional goals, self-reflection, and performance data to measure its effectiveness	Demonstrates continuous self- reflection and coaching of others on reflective practice		

Interpersonal and Communication Skills 1: Patient and Family Centered Communication						
Level 1	Level 2	Level 3	Level 4	Level 5		
Demonstrates	Establishes a	Establishes a	Establishes a	Mentors others to		
respect and attempts	therapeutic	culturally competent	therapeutic	develop positive		
to establish rapport	relationship in	and therapeutic	relationship in			

	straightforward encounters	relationship in most encounters	straightforward and complex encounters, including those with ambiguity and/or conflict	therapeutic relationships
Attempts to adjust communication strategies based upon patient/family expectations	Adjusts communication strategies as needed to mitigate barriers and meet patient/family expectations	Communicates with sensitivity and compassion, elicits patient/family values, and acknowledges uncertainty and conflict	Uses shared decision making with patient/family to make a personalized care plan	Models and coaches others in patient- and family-centered communication