# Elective Pediatric Endocrinology Rotation Information and Instructional Objectives

# **Instructor of Record for Elective Pediatric Endocrinology Rotation:**

Mandy German, MS, PA-C Phone: 616-460-7080 Office Location: CHS 232 Email: germanm@gvsu.edu

#### **Elective Pediatric Endocrinology Clinical Rotation Topics**

#### **Dermatologic System**

Other dermatologic disorders: Acanthosis nigricans, Hidradenitis suppurativa

#### **Endocrine System**

Adrenal disorders: Cushing syndrome, Pheochromocytoma, Primary adrenal insufficiency

Diabetes mellitus: Type 1, Type 2

Hypogonadism

Neoplasms: Multiple endocrine neoplasia, Neoplastic syndrome, Primary endocrine malignancy

Parathyroid disorders: Hyperparathyroidism, Hypoparathyroidism

Pituitary disorders: Acromegaly/gigantism, Cushing disease, Diabetes insipidus, Dwarfism,

Pituitary adenoma, Prolactinoma, SIADH

Thyroid disorders: Goiter, Hyperthyroidism, Hypothyroidism, Thyroid nodules, Thyroiditis

#### **Gastrointestinal System/Nutrition**

Hypervitaminosis/hypovitaminosis, Malabsorption, Refeeding syndrome Obesity

#### **Reproductive System**

Contraceptive methods

Human sexuality and gender identity

Menstrual disorders

Ovarian disorders: Polycystic ovarian syndrome

#### **Pediatrics**

Neurology/Developmental: Turner syndrome

Psychiatry/Behavioral Medicine: Anxiety disorders, Attention-deficit/hyperactivity disorder, Endocrinology: Diabetes mellitus, Hypercalcemia, Hyperthyroidism, Hypothyroidism, Obesity,

Short stature

### **Elective Pediatric Endocrinology Rotation Learning Outcomes**

Upon completion of the elective Pediatric Endocrinology clinical rotation,

- 1. Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Pediatric Endocrinology Clinical Rotation Topics above) encountered in Pediatric Endocrinology for patients seeking medical care for the following age populations: infants, children, and/or adolescents.
- 2. Students will elicit a detailed and accurate patient history, perform an appropriate physical examination, appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Pediatric Endocrinology Clinical Rotation Topics above) commonly encountered in patients seeking emergent Pediatric Endocrinology, acute Pediatric Endocrinology, and/or chronic Pediatric Endocrinology care.
- 3. Students will demonstrate technical skills common to Pediatric Endocrinology.
- 4. Students will obtain and document information clearly and appropriately for the following types of patient encounters: (a) emergent problem-focused encounters, (b) acute problem-focused encounters, (c) chronic disease follow-up encounters.
- 5. Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients seeking care in Pediatric Endocrinology.
- 6. Students will facilitate difficult health care conversations in Pediatric Endocrinology.
- 7. Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a Pediatric Endocrinology setting.
- 8. Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to Pediatric Endocrinology.
- 9. Students will (a) promote a safe environment for patients seeking care in a Pediatric Endocrinology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in Pediatric Endocrinology, (d) work effectively with other health professionals to provide collaborative, patient centered pediatric endocrinology care, (e) work effectively in an outpatient and/or inpatient health delivery settings, (f) incorporate considerations of cost awareness and funding into patients seeking care in an Pediatric Endocrinology setting, and (g) describe basic health payment systems and practice models for Pediatric Endocrinology.

#### **Elective Pediatric Endocrinology Instructional Objectives**

Upon completion of the elective Pediatric Endocrinology clinical rotation,

1. Elective Pediatric Endocrinology Rotation Learning Outcome #1: Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Pediatric Endocrinology Clinical Rotation Topics above) encountered in Pediatric Endocrinology for patients seeking medical care for the following age populations: infants, children, and/or adolescents.

- Pediatric Endocrinology instructional objective: Evaluate the common disease process found in Pediatric Endocrinology using suggested readings and course study guide. (MK-PLO2)
- **Pediatric Endocrinology instructional objective:** Identify the etiology, pathophysiology, and clinical presentation of conditions listed in the clinical topics for this rotation. (MK-PLO3)
- Pediatric Endocrinology Rotation instructional objective: Select appropriate treatment plans for patients using all pertinent medical data, including history, physical examination, and diagnostic data, under the preceptor's supervision. (MK-PLO3)
- Pediatric Endocrinology Rotation instructional objective: Identify medications
  commonly used in Pediatric Endocrinology, including the indication,
  contraindication, mechanism of action, most common side effects, and
  appropriate dosage for age. (MK-PLO2)
- **Pediatric Endocrinology instructional objective:** Contrast possible risks and benefits of diagnostic studies and treatment plans. (MK-PLO3)
- **Pediatric Endocrinology instructional objective:** Recommend appropriate screening tests and immunizations based on current standards. (MK-PLO3)
- **Pediatric Endocrinology instructional objective:** Contrast the risks and benefits of procedures that must be performed on your patient. (MK PLO-3)
- **Pediatric Endocrinology instructional objective:** Interpret and apply setting appropriate healthcare guidelines. (MK PLO-3)
- 2. Elective Pediatric Endocrinology Rotation Learning Outcome #2: Students will elicit a detailed and accurate patient history, perform an appropriate physical examination, appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Pediatric Endocrinology Clinical Rotation Topics above) commonly encountered in patients seeking emergent Pediatric Endocrinology, acute Pediatric Endocrinology, and/or chronic Pediatric Endocrinology.
  - **Pediatric Endocrinology instructional objective:** Demonstrate an age and setting appropriate history and physical exam for a patient less than 1 year of age. (PC-PLO1, PC-PLO2)
  - **Pediatric Endocrinology instructional objective:** Demonstrate an age and setting appropriate history and physical exam for a patient 1-10 years of age. (PC-PLO1, PC-PLO2)
  - **Pediatric Endocrinology instructional objective:** Demonstrate an age and setting appropriate history and physical exam for a patient 11-17 years of age. (PC-PLO1, PC-PLO2)
  - **Pediatric Endocrinology instructional objective:** Choose appropriate diagnostic tests to identify an abnormality. (PC-PLO3)
  - **Pediatric Endocrinology instructional objective:** Interpret diagnostic studies related to the patient's medical condition. (PC-PLO3)
  - **Pediatric Endocrinology instructional objective:** Formulate an appropriate differential diagnosis based on history, physical examination, and diagnostic study data. (PC-PLO4)

- **Pediatric Endocrinology instructional objective:** Construct an appropriate treatment plan based on history, physical exam, and diagnostic data. (PC-PLO4)
- **Pediatric Endocrinology instructional objective:** Select appropriate preventative exams and screening tests for all infants, children, and/or adolescents. (PC-PLO4)
- **Pediatric Endocrinology instructional objective:** Actively participate in the management of acute and chronic patient conditions. (PC- PLO4)
- 3. Elective Pediatric Endocrinology Rotation Learning Outcome #3: Students will demonstrate technical skills common to Pediatric Endocrinology.
- 4. **Elective Pediatric Endocrinology Rotation Learning Outcome #4:** Students will obtain and document information clearly and appropriately for the following types of patient encounters: (a) emergent problem-focused encounters, (b) acute problem-focused encounters, and/or (c) chronic disease follow-up encounters.
- 5. **Elective Pediatric Endocrinology Rotation Learning Outcome #5:** Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients seeking care in Pediatric Endocrinology.
  - **Pediatric Endocrinology instructional objective:** Describe health promotion and disease prevention to your patients. (ICS-PLO3)
  - **Pediatric Endocrinology instructional objective:** Adapt communication style and information context to the individual patient interaction. (ICS-PLO3)
  - **Pediatric Endocrinology instructional objective:** Identify communication barriers with different patient populations. (ICS PLO-3)
  - **Pediatric Endocrinology instructional objective:** Compose an oral case presentation and present it to the preceptor. (ICS-PLO3)
  - **Pediatric Endocrinology instructional objective:** Explain possible risks and benefits of diagnostic studies and treatment plans to your patient as approved by the supervising provider. (ICS-PLO3)
  - **Pediatric Endocrinology instructional objective:** Select written patient education handouts to address a health promotion issue using the most up-to-date, evidence-based medical data. (ICS PLO-3)
- 6. **Elective Pediatric Endocrinology Rotation Learning Outcome #6:** Students will facilitate difficult health care conversations in Pediatric Endocrinology.
- 7. **Elective Pediatric Endocrinology Rotation Learning Outcome #7:** Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a Pediatric Endocrinology setting.
  - **Pediatric Endocrinology instructional objective:** Practice professionally in a working situation with other healthcare team members, including appropriate dress, punctual attendance, and professional attitude. (P-PLO1)
  - **Pediatric Endocrinology instructional objective:** Show sensitivity to the emotional, social, developmental, and ethnic background of patients and their families on their service. (P-PLO1)

- **Pediatric Endocrinology instructional objective:** Apply professional attitude in such areas as attendance, dress code, and performance in the medical setting. (P-PLO1)
- **Pediatric Endocrinology instructional objective:** Demonstrate sensitivity and responsiveness to patients' culture, gender, age, and disabilities. (P-PLO1)
- **Pediatric Endocrinology instructional objective:** Demonstrate motivation and desire to learn. (P-PLO3)
- **Pediatric Endocrinology instructional objective:** Demonstrate knowledge of the legal and regulatory requirements of the role of a physician assistant. (P-PLO4)
- 8. **Elective Pediatric Endocrinology Rotation Learning Outcome #8:** Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to Pediatric Endocrinology.
  - **Pediatric Endocrinology instructional objective:** Demonstrate an openness to receive constructive criticism. (PBLPI-PLO1)
  - Pediatric Endocrinology instructional objective: Recognize limitations and locate assistance from supervising preceptors and appropriate reference material. (PBLPI-PLO1)
  - **Pediatric Endocrinology instructional objective:** Develop the ability to learn from practice. (PBLPI-PLO2)
  - **Pediatric Endocrinology instructional objective:** Recognize personal limitations and where to access help personally and professionally. (PBLPI-PL2)
  - **Pediatric Endocrinology instructional objective:** Interpret independent outside readings concerning medical problems encountered. (PBL PI-PLO3)
  - **Pediatric Endocrinology instructional objective:** Show ability to understand and apply decision-making tools. (PBL PI PLO-3)
  - **Pediatric Endocrinology instructional objective:** Recognize the importance of lifelong learning in the medical field. (PBLPI-PLO3)
  - **Pediatric Endocrinology instructional objective:** Assess medical evidence and communicate it to patients and colleagues. (PBLPI-PL3)
  - **Pediatric Endocrinology instructional objective:** Apply information technology to access online medical information and continue personal education. (PBLPI-PL3))
  - **Pediatric Endocrinology instructional objective:** Use medical information technology in decision-making, patient care, and patient education. (PBLPI-PL3)
- 9. **Elective Pediatric Endocrinology Rotation Learning Outcome #9:** Students will (a) promote a safe environment for patients seeking care in a Pediatric Endocrinology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in Pediatric Endocrinology, (d) work effectively with other health professionals to provide collaborative, patient centered pediatric endocrinology care, (e) work effectively in an outpatient and/or inpatient health delivery settings, (f) incorporate considerations of cost awareness and funding into patients seeking

care in an Pediatric Endocrinology setting, and (g) describe basic health payment systems and practice models for Pediatric Endocrinology.

- **Pediatric Endocrinology instructional objective:** Operate under the rules of HIPAA to preserve patient confidentiality. (SBP-PLO1)
- **Pediatric Endocrinology instructional objective:** Practice according to policy and procedures set forth by the health care facility. (SBP-PLO1)
- **Pediatric Endocrinology instructional objective:** Employ a professional relationship with the supervising providers and other health care team members. (SBP-PLO4)
- **Pediatric Endocrinology instructional objective:** Identify the obstacles to obtaining medical care for those with financial difficulties. (SBP-PLO6)
- **Pediatric Endocrinology instructional objective:** Evaluate cost-effective health care and resources that do not compromise the quality of patient care. (SBP-PLO6)
- **Pediatric Endocrinology instructional objective:** Identify the funding sources and payment systems that provide coverage for the patient. (SBP-PLO7)
- **Pediatric Endocrinology instructional objective:** Choose the appropriate code for billing the responsible payment service under the direct supervision of the preceptor. (SBP-PLO7)

# **Elective Pediatric Endocrinology Rotation Curriculum Integration Table**

Elective Pediatric Endocrinology Rotation Learning Outcome	Assessment Method (Benchmark Requirements)	PAS Program Goal	PAS Program Learning Outcome (ARC- PA)/Student Learning Outcomes (GVSU)
Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Pediatric Endocrinology Clinical Rotation Topics above) encountered in Pediatric Endocrinology for patients seeking medical care for the following age populations: infants, children, and/or adolescents.	Preceptor Evaluation (80% average score on Medical Knowledge competency section)	Medical Knowledge and Competence in Patient Care	MK #2 MK #3
Students will elicit a detailed and accurate patient history, perform an appropriate physical examination, appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Pediatric Endocrinology Clinical Rotation Topics above) commonly encountered in patients seeking preventive, emergent Pediatric Endocrinology, acute Pediatric Endocrinology, and/or chronic Pediatric Endocrinology.	Preceptor Evaluation (80% average score on Patient competency section)	Medical Knowledge and Competence in Patient Care	PC #1 PC #2 PC #3 PC #4

Students will demonstrate technical skills common to Pediatric Endocrinology.	Preceptor Evaluation (80% average score on Patient competency section) Clinical Skills Checklist (Pass/Fail)	Medical Knowledge and Competence in Patient Care	PC #5
Students will obtain and document information clearly and appropriately for the following types of patient encounters: (a) emergent problem-focused encounters, (c) acute problem-focused encounters, and/or (c) chronic disease follow-up encounters	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Medical Knowledge and Patient Care	ICS#2
Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients	Preceptor Evaluation (80% average score on Interpersonal and	Medical Knowledge and Patient Care	ICS #1
seeking care in Pediatric Endocrinology.	Communication Skills competency section)	Collaborative Practice	ICS #3 ICS #5
Students will facilitate difficult health care conversations in Pediatric Endocrinology.	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Collaborative Practice	ICS #4
Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a Pediatric Endocrinology setting.	Preceptor Evaluation (80% average score on Professionalism competency section)	Professionalism	P #1 P #2 P #3
Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to Pediatric Endocrinology.	Preceptor Evaluation (80% average score on Practice-Based Learning and Proficiency	Lifelong Learning	PBLPI #1 PBLP #2 PBLP #3

	Improvement competency section)		
Students will (a) promote a safe	Preceptor	Medical	SBP #1
environment for patients seeking care in a Pediatric Endocrinology	Evaluation (80%	Knowledge and Patient Care	SBP #6
setting, (b) demonstrate	average score on Systems-Based	Lifelong	SBP #2
knowledge of quality	Practice competency	Learning	SDI 112
improvement methodologies and	section)	Collaborative	SBP #3
metrics, (c) recognize the unique	,	Practice	SBP #4
role of PAs and other health			SBP #5
professions in Pediatric			SBP #7
Endocrinology, (d) Work			
effectively with other health			
professionals to provide			
collaborative, patient centered			
pediatric endocrinology care, (e)			
work effectively in an outpatient			
and/or inpatient health delivery			
settings, (f) incorporate			
considerations of cost awareness			
and funding into patients seeking			
care in an Pediatric Endocrinology			
setting, and (g) describe basic			
health payment systems and			
practice models for Pediatric			
Endocrinology.			

# **Pediatric Endocrinology Preceptor Evaluation of the Student**

1. What is your group and/or site name (i.e., Helen Devos Pediatric Endocrinology) 2. Medical Knowledge: This section evaluates the student's ability to demonstrate medical knowledge, clinical reasoning, and problem-solving ability of sufficient breadth and depth to practice medicine as an entry-level physician assistant 60% 100% N/A 70% 80% 90% (C+/B)(Failing) (D+/(B+/(A) C-) A-) Student demonstrates medical knowledge in pathophysiology, etiology, and epidemiology for patients seeking medical care for common conditions encountered in Pediatric Endocrinology in the following age populations (MK#2, 3): Infants Children Adolescents Student demonstrates medical knowledge of patient presentations for common conditions encountered in Pediatric Endocrinology for the following age populations (MK#2,3): **Infants** Children Adolescents Student demonstrates medical knowledge of differential diagnosis and diagnostic work-up for patients seeking medical care for common conditions encountered in Pediatric Endocrinology in the following age populations (MK#2,3) **Infants** Children Adolescents Student demonstrates medical knowledge of patient management strategies for patients seeking medical care for common conditions encountered in Pediatric Endocrinology in the following age populations (MK#2,3): Infants Children Adolescents Student demonstrates medical knowledge of health promotion and disease prevention for patients seeking medical care for common conditions encountered in Pediatric Endocrinology in the following age populations (MK#2, 3) Infants Children Adolescents

3. Patient Care: This section evaluates the student's ability to provide person-centered care that includes patient- and setting-specific assessment, evaluation, management, and health promotion.

Additional Comments:

	60%	70%	80%	90%	100%	
	(Failing)	(D+/	(C+/	(B+/	(A)	N/A
		C-)	B)	A-)		
Elicit a detailed and accurate histo	ory and perfo	orm an ap	propriate	physica	l examina	ition
for the following populations enc	ountered in I	Pediatric	Endocrin	ology (P	C#1):	
Infant						
Children						
Adolescents						
Elicit a detailed and accurate histo	ory and perfo	orm an ap	propriate	physica	l examina	ition
for patients encountered in Pediat	ric Endocrin	ology see	eking (PC	C#2):		
Emergent care						
Acute care						
Chronic care						
Student demonstrates knowledge	of the appro	priate use	and inte	rpretatio	n of diagr	nostic
testing and laboratory studies con		•		-	_	
Emergent care	Ĭ					
Acute care						
Chronic care						
Student organizes information from	m the interv	iew, diag	nostic tes	sting, and	l physical	
examination to formulate differen						
Emergent care		_		_		
Acute care						
Chronic care						
Student organizes information fro	m the interv	iew, diag	nostic tes	sting, and	l physical	
examination to formulate assessm	ent plans for	r symptoi	ns/condi	tions con	nmonly	
encountered in patients seeking (I	PC#4):				-	
Emergent care						
Acute care						
Chronic care						
Demonstrate basic technical						
skills common to Pediatric						
Endocrinology. (PC#5):						
Additional Comments:						

4. Interpersonal and Communication Skills: This section evaluates the student's ability to demonstrate verbal and non-verbal communication skills needed to have respectful, compassionate, and effective conversations with patients, patients' families, and health professionals to exchange information and make medical decisions.

<u> </u>						
	60%	70%	80%	90%	100%	N/A
	(Failing)	(D+/	(C+/	(B+/	(A)	
		C-)	B)	A-)		
Listen empathetically and						
effectively to patients seeking						
care in Pediatric Endocrinology						
(ICS#1)						

Obtain and document information	clearly and	accurate	elv at a	n appr	opriate l	evel the
following types of patient encount	-		-5	F F	- P	
Emergent problem-						
focused encounters						
Acute problem-focused						
encounters						
Chronic disease follow-						
up encounters						
Communicate information						
clearly to patients, families,						
colleagues, and teams as						
appropriate across a broad range						
of socioeconomic and cultural						
backgrounds (ICS#3)						
Facilitate difficult health care						
conversations in Pediatric						
Endocrinology (ICS#4):						
Utilize shared-decision making						
to promote patient-centered						
communication by eliciting and						
incorporating patient preferences						
(ICS#5)						
Additional Comments:						

5. Professionalism: This section evaluates the student's ability to demonstrate commitment to carrying out professional responsibilities and adhering to ethical principles and practices.

	60%	70%	80%	90%	100%
	(Failing)	(D+/	(C+/	(B+/	(A)
		C-)	B)	A-)	
Demonstrate compassion, integrity, and					
respect for patients seeking care in a					
Pediatric Endocrinology setting (P#1)					
Demonstrate responsiveness to patient					
needs that supersede self-interest while					
providing care in a Pediatric					
Endocrinology setting (P#2)					
Show accountability to patients,					
society, and the profession while					
providing care in a Pediatric					
Endocrinology setting (P#3)					
Demonstrate leadership and advocacy					
for the PA profession (P#4)					
Additional Comments:					

6. Practice-Based Learning and Proficiency Improvement: This section evaluates the student's ability to acquire, appraise, and apply evidence-based medicine to patient care, and accurately assess and improve clinical performance based on constant self-evaluation and lifelong learning.

	60%	70%	80%	90%	100%
	(Failing)	(D+/	(C+/	(B+/	(A)
		C-)	B)	A-)	
Seek, implement, and accept feedback					
(PBLPI#1)					
Reflect on performance to identify					
strengths and deficiencies in one's					
knowledge and expertise and develop a					
plan for self-improvement (PBLPI#2)					
Locate, appraise, and integrate					
evidence-based studies related to					
Pediatric Endocrinology (PBLPI#3)					
Additional Comments:					

7. Systems-Based Practice: This section evaluates the student's ability to engage with other healthcare professionals in a manner that optimizes patient care within the context of the larger healthcare system.

	60%	70%	80%	90%	100%
	(Failing)	(D+/	(C+/	(B+/	(A)
		C-)	B)	A-)	
Promote a safe environment for patients					
seeking care in a Pediatric					
Endocrinology setting (SBP#1)					
Demonstrate knowledge of quality					
improvement methodologies and					
metrics in Pediatric Endocrinology					
(SBP#2)					
Recognize the unique roles of PAs and					
those of other healthcare professions in					
Pediatric Endocrinology (SBP#3)					
Work effectively with other health					
professionals to provide collaborative,					
patient centered pediatric					
endocrinology care (SBP#4)					
Work effectively in an outpatient and/or					
inpatient health delivery setting					
(SBP#5)					
Incorporate considerations of cost					
awareness and funding sources into					
patients seeking care in a Pediatric					
Endocrinology setting (SBP#6)					

Describe basic health payment systems			
and practice models for Pediatric			
Endocrinology (SBP#7)			
Additional Comments:			

- 8. Did the student have any absences during the rotation?
  - a. Yes
  - b. No
  - c. If yes, please indicate dates and reason for absence:
- 9. Please write a short note commenting on this student's particular strengths.
- 10. Please write a short note commenting on this student's particular areas for improvement.
- 11. Was this evaluation discussed with the student?
  - a. Yes
  - b. No
  - c. Additional comments:
- 12. Preceptor Signature: