

Elective Pediatric Neurology Rotation Information and Instructional Objectives

Instructor of Record for Elective Pediatric Neurology Rotation:

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Elective Pediatric Neurology Clinical Rotation Topics

Eyes, Ears, Nose, and Throat

Eye disorders

Neuro-ophthalmologic disorders: Nystagmus, Optic neuritis, Papilledema

Vision abnormalities: Amaurosis fugax, Amblyopia, Glaucoma, Strabismus, Presbyopia

Ear disorders

Inner ear: Acoustic neuroma, Vertigo

Hearing impairment: Conductive, Sensorineural

Other abnormalities of the ear: Meniere disease, Tinnitus

Neoplasms: Benign, Malignant

Neurologic System

Cerebrovascular disorders: Arteriovenous malformation, Cerebral aneurysm, Coma,

Hydrocephalus, Intracranial hemorrhage, Stroke, Syncope, Transient ischemic attack

Closed head injuries: Concussion, Post-concussion syndrome, Traumatic brain injury

Cranial nerve palsies

Encephalopathic disorders

Headaches: Cluster headache, Migraine, Tension headache

Infectious disorders: Encephalitis, Meningitis

Movement disorders: Essential tremor, Huntington disease, Parkinson disease, Restless leg syndrome, Tourette disorder, Tardive dyskinesia

Neoplasms: Benign, Malignant

Nerve disorders: Complex regional pain syndrome, Guillain-Barre syndrome, mononeuropathies, peripheral neuropathies

Neurocognitive disorders: Cognitive impairment, Delirium

Neuromuscular disorders: Cerebral palsy, Multiple sclerosis, Myasthenia gravis

Seizure disorders: Focal seizure, Generalized seizures, Status epilepticus

Spinal cord syndromes: Cauda equina syndrome, Epidural abscess, Spinal cord injuries

Pediatrics

Neurology/Developmental: Anticipatory guidance, Down syndrome, Febrile seizure,

Immunization guidelines, Meningitis, Normal growth and development, Seizure disorders,

Teething, Turner syndrome

Elective Pediatric Neurology Rotation Learning Outcomes

Upon completion of the elective Pediatric Neurology 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 Neurology Clinical Rotation Topics above) encountered in Pediatric Neurology 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 Neurology Clinical Rotation Topics above) commonly encountered in patients seeking emergent Pediatric Neurology, acute Pediatric Neurology, and/or chronic Pediatric Neurology care.
3. Students will demonstrate technical skills common to Pediatric Neurology.
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 Neurology.
6. Students will facilitate difficult health care conversations in Pediatric Neurology.
7. Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a Pediatric Neurology 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 Neurology.
9. Students will (a) promote a safe environment for patients seeking care in a Pediatric Neurology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in Pediatric Neurology, (d) work effectively with other health professionals in Pediatric Neurology, (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 Neurology setting, and (g) describe basic health payment systems and practice models for Pediatric Neurology.

Elective Pediatric Neurology Instructional Objectives

Upon completion of the elective Pediatric Neurology clinical rotation,

1. **Elective Pediatric Neurology 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 Neurology Clinical Rotation Topics above) encountered in Pediatric Neurology for patients seeking medical care for the following age populations: infants, children, and/or adolescents.
 - **Pediatric Neurology instructional objective:** Evaluate the common disease process found in Pediatric Neurology using suggested readings and course study guide. (MK-PLO2)

- **Pediatric Neurology instructional objective:** Identify the etiology, pathophysiology, and clinical presentation of conditions listed in the clinical topics for this rotation. (MK-PLO3)
- **Pediatric Neurology 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 Neurology Rotation instructional objective:** Identify medications commonly used in Pediatric Neurology, including the indication, contraindication, mechanism of action, most common side effects, and appropriate dosage for age. (MK-PLO2)
- **Pediatric Neurology instructional objective:** Contrast possible risks and benefits of diagnostic studies and treatment plans. (MK-PLO3)
- **Pediatric Neurology instructional objective:** Recommend appropriate screening tests and immunizations based on current standards. (MK-PLO3)
- **Pediatric Neurology instructional objective:** Contrast the risks and benefits of procedures that must be performed on your patient. (MK PLO-3)
- **Pediatric Neurology instructional objective:** Interpret and apply setting appropriate healthcare guidelines. (MK PLO-3)

2. **Elective Pediatric Neurology 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 Neurology Clinical Rotation Topics above) commonly encountered in patients seeking emergent Pediatric Neurology, acute Pediatric Neurology, and/or chronic Pediatric Neurology.

- **Pediatric Neurology 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 Neurology 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 Neurology 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 Neurology instructional objective:** Choose appropriate diagnostic tests to identify an abnormality. (PC-PLO3)
- **Pediatric Neurology instructional objective:** Interpret diagnostic studies related to the patient's medical condition. (PC-PLO3)
- **Pediatric Neurology instructional objective:** Formulate an appropriate differential diagnosis based on history, physical examination, and diagnostic study data. (PC-PLO4)
- **Pediatric Neurology instructional objective:** Construct an appropriate treatment plan based on history, physical exam, and diagnostic data. (PC-PLO4)

- **Pediatric Neurology instructional objective:** Select appropriate preventative exams and screening tests for all infants, children, and/or adolescents. (PC-PLO4)
 - **Pediatric Neurology instructional objective:** Actively participate in the management of acute and chronic patient conditions. (PC- PLO4)
3. **Elective Pediatric Neurology Rotation Learning Outcome #3:** Students will demonstrate technical skills common to Pediatric Neurology.
 4. **Elective Pediatric Neurology 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 Neurology Rotation Learning Outcome #5:** Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients seeking care in Pediatric Neurology.
 - **Pediatric Neurology instructional objective:** Describe health promotion and disease prevention to your patients. (ICS-PLO3)
 - **Pediatric Neurology instructional objective:** Adapt communication style and information context to the individual patient interaction. (ICS-PLO3)
 - **Pediatric Neurology instructional objective:** Identify communication barriers with different patient populations. (ICS PLO-3)
 - **Pediatric Neurology instructional objective:** Compose an oral case presentation and present it to the preceptor. (ICS-PLO3)
 - **Pediatric Neurology 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 Neurology 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 Neurology Rotation Learning Outcome #6:** Students will facilitate difficult health care conversations in Pediatric Neurology.
 7. **Elective Pediatric Neurology Rotation Learning Outcome #7:** Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a Pediatric Neurology setting.
 - **Pediatric Neurology instructional objective:** Practice professionally in a working situation with other healthcare team members, including appropriate dress, punctual attendance, and professional attitude. (P-PLO1)
 - **Pediatric Neurology instructional objective:** Show sensitivity to the emotional, social, developmental, and ethnic background of patients and their families on their service. (P-PLO1)
 - **Pediatric Neurology instructional objective:** Apply professional attitude in such areas as attendance, dress code, and performance in the medical setting. (P-PLO1)

- **Pediatric Neurology instructional objective:** Demonstrate sensitivity and responsiveness to patients' culture, gender, age, and disabilities. (P-PLO1)
 - **Pediatric Neurology instructional objective:** Demonstrate motivation and desire to learn. (P-PLO3)
 - **Pediatric Neurology instructional objective:** Demonstrate knowledge of the legal and regulatory requirements of the role of a physician assistant. (P-PLO4)
8. **Elective Pediatric Neurology 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 Neurology.
- **Pediatric Neurology instructional objective:** Demonstrate an openness to receive constructive criticism. (PBLPI-PLO1)
 - **Pediatric Neurology instructional objective:** Recognize limitations and locate assistance from supervising preceptors and appropriate reference material. (PBLPI-PLO1)
 - **Pediatric Neurology instructional objective:** Develop the ability to learn from practice. (PBLPI-PLO2)
 - **Pediatric Neurology instructional objective:** Recognize personal limitations and where to access help personally and professionally. (PBLPI-PL2)
 - **Pediatric Neurology instructional objective:** Interpret independent outside readings concerning medical problems encountered. (PBL PI-PLO3)
 - **Pediatric Neurology instructional objective:** Show ability to understand and apply decision-making tools. (PBL PI PLO-3)
 - **Pediatric Neurology instructional objective:** Recognize the importance of lifelong learning in the medical field. (PBLPI-PLO3)
 - **Pediatric Neurology instructional objective:** Assess medical evidence and communicate it to patients and colleagues. (PBLPI-PL3)
 - **Pediatric Neurology instructional objective:** Apply information technology to access online medical information and continue personal education. (PBLPI-PL3))
 - **Pediatric Neurology instructional objective:** Use medical information technology in decision-making, patient care, and patient education. (PBLPI-PL3)
9. **Elective Pediatric Neurology Rotation Learning Outcome #9:** Students will (a) promote a safe environment for patients seeking care in a Pediatric Neurology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in Pediatric Neurology, (d) work effectively with other health professionals in Pediatric Neurology, (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 Neurology setting, and (g) describe basic health payment systems and practice models for Pediatric Neurology.
- **Pediatric Neurology instructional objective:** Operate under the rules of HIPAA to preserve patient confidentiality. (SBP-PLO1)
 - **Pediatric Neurology instructional objective:** Practice according to policy and procedures set forth by the health care facility. (SBP-PLO1)

- **Pediatric Neurology instructional objective:** Employ a professional relationship with the supervising providers and other health care team members. (SBP-PLO4)
- **Pediatric Neurology instructional objective:** Identify the obstacles to obtaining medical care for those with financial difficulties. (SBP-PLO6)
- **Pediatric Neurology instructional objective:** Evaluate cost-effective health care and resources that do not compromise the quality of patient care. (SBP-PLO6)
- **Pediatric Neurology instructional objective:** Identify the funding sources and payment systems that provide coverage for the patient. (SBP-PLO7)
- **Pediatric Neurology instructional objective:** Choose the appropriate code for billing the responsible payment service under the direct supervision of the preceptor. (SBP-PLO7)

Elective Pediatric Neurology Rotation Curriculum Integration Table

Elective Pediatric Neurology Rotation Learning Outcome	Assessment Method (Benchmark Requirements)	PAS Program Goal	PAS Program Learning Outcome (ARC-PA)/Student Learning Outcomes (GVSU)
<p>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 Neurology Clinical Rotation Topics above) encountered in Pediatric Neurology for patients seeking medical care for the following age populations: infants, children, and/or adolescents.</p>	<p>Preceptor Evaluation (80% average score on Medical Knowledge competency section)</p>	<p>Medical Knowledge and Competence in Patient Care</p>	<p>MK #2 MK #3</p>
<p>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 Neurology Clinical Rotation Topics above) commonly encountered in patients seeking preventive, emergent Pediatric Neurology, acute Pediatric Neurology, and/or chronic Pediatric Neurology.</p>	<p>Preceptor Evaluation (80% average score on Patient competency section)</p>	<p>Medical Knowledge and Competence in Patient Care</p>	<p>PC #1 PC #2 PC #3 PC #4</p>

Students will demonstrate technical skills common to Pediatric Neurology.	Preceptor Evaluation (80% average score on Patient competency section)	Medical Knowledge and Competence in Patient Care	PC #5
	Clinical Skills Checklist (Pass/Fail)		
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 seeking care in Pediatric Neurology.	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Medical Knowledge and Patient Care	ICS #1
		Collaborative Practice	ICS #3 ICS #5
Students will facilitate difficult health care conversations in Pediatric Neurology.	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 Neurology 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 Neurology.	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 environment for patients seeking care in a Pediatric Neurology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in Pediatric Neurology, (d) work effectively with other health professionals in Pediatric Neurology, (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 Neurology setting, and (g) describe basic health payment systems and practice models for Pediatric Neurology.	Preceptor Evaluation (80% average score on Systems-Based Practice competency section)	Medical Knowledge and Patient Care	SBP #1 SBP #6
		Lifelong Learning	SBP #2
		Collaborative Practice	SBP #3 SBP #4 SBP #5 SBP #7

Pediatric Neurology Preceptor Evaluation of the Student

1. What is your group and/or site name (i.e., Helen Devos Pediatric Neurology)
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% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)	N/A
Student demonstrates medical knowledge in pathophysiology, etiology, and epidemiology for patients seeking medical care for common conditions encountered in Pediatric Neurology in the following age populations (MK#2, 3):						
Infants						
Children						
Adolescents						
Student demonstrates medical knowledge of patient presentations for common conditions encountered in Pediatric Neurology 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 Neurology 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 Neurology 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 Neurology in the following age populations (MK#2, 3)						
Infants						
Children						
Adolescents						
Additional Comments:						

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.

	60% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)	N/A
Elicit a detailed and accurate history and perform an appropriate physical examination for the following populations encountered in Pediatric Neurology (PC#1):						
Infant						
Children						
Adolescents						
Elicit a detailed and accurate history and perform an appropriate physical examination for patients encountered in Pediatric Neurology seeking (PC#2):						
Emergent care						
Acute care						
Chronic care						
Student demonstrates knowledge of the appropriate use and interpretation of diagnostic testing and laboratory studies commonly used for patients seeking (PC#3):						
Emergent care						
Acute care						
Chronic care						
Student organizes information from the interview, diagnostic testing, and physical examination to formulate differential diagnoses for patients seeking (PC#4):						
Emergent care						
Acute care						
Chronic care						
Student organizes information from the interview, diagnostic testing, and physical examination to formulate assessment plans for symptoms/conditions commonly encountered in patients seeking (PC#4):						
Emergent care						
Acute care						
Chronic care						
Demonstrate basic technical skills common to Pediatric Neurology. (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.

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

Obtain and document information clearly and accurately at an appropriate level the following types of patient encounters (ICS#2):						
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 Neurology (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% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)
Demonstrate compassion, integrity, and respect for patients seeking care in a Pediatric Neurology setting (P#1)					
Demonstrate responsiveness to patient needs that supersede self-interest while providing care in a Pediatric Neurology setting (P#2)					
Show accountability to patients, society, and the profession while providing care in a Pediatric Neurology 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% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (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 Neurology (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% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)
Promote a safe environment for patients seeking care in a Pediatric Neurology setting (SBP#1)					
Demonstrate knowledge of quality improvement methodologies and metrics in Pediatric Neurology (SBP#2)					
Recognize the unique roles of PAs and those of other healthcare professions in Pediatric Neurology (SBP#3)					
Work effectively with other health professionals to provide collaborative, patient-centered in Pediatric Neurology (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 Neurology setting (SBP#6)					

Describe basic health payment systems and practice models for Pediatric Neurology (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: