Pediatric Epilepsy Monitoring Unit (EMU) Elective
Competency Based Goals and Objectives

Patient Care. Provide family centered patient care that is developmentally and age appropriate, compassionate, and effective for the treatment of health problems and the promotion of health.

Objectives:
- Participate in the evaluation and management of pediatric patients admitted to the Pediatric EMU
- Perform an accurate and specific history and physical examination for recognition of neurologic disorders
- Integrate history and physical examination with medical knowledge for neurologic disorders to arrive at differential diagnosis and plan
- Use evidence-based treatment guidelines to inform treatment decisions
- Provide timely, compassionate service and seek appropriate consultation and support in the evaluation and treatment of movement disorders

Medical Knowledge. Understand the scope of established and evolving biomedical, clinical, epidemiological, and social-behavioral knowledge needed by a pediatric neurologist; demonstrate the ability to acquire, critically interpret, and apply this knowledge in patient care.

Objectives:
- Understand the appropriate clinical indications for long-term EEG monitoring
- Understand the limitations of video-EEG monitoring in the evaluation of neurological conditions
- Observe and interpret EEG studies in the pediatric population
- Accurately identify normal EEG patterns and common benign variations
- Accurately identify common and less common artifacts observed on EEG
- Accurately identify interictal epileptiform patterns and their associated clinical implications
- Accurately identify common seizure patterns and become familiar with less common seizure patterns
- Interpret reports and understand clinical significance of findings
- Develop approach to evaluation and treatment of children with medical intractable epilepsy
- Understand current concepts of therapy including pharmacologic (mechanism of action, drug-interaction, side effects) and non-pharmacologic interventions (surgery, ketogenic diet, vagal nerve stimulator) in the treatment of pediatric epilepsy

Interpersonal and Professional Communication. Demonstrate interpersonal and communication skills that result in information exchange and partnering with patients, their families, and professional associates.

Objectives:
- Provide clinical assessment of cases to faculty, using correct terminology and with explanation of rationale based on appraisal of available clinical and neurophysiological data
- Interact in a collegial way with ancillary staff including nurses and EEG technologists
- Effectively communicate EEG procedure and applicable findings to patients and families
**Professionalism.** Demonstrate a commitment to carry out professional responsibilities, adherence to ethical principles, and sensitivity to diversity.

Objectives:
- Be present and participate in daily rounds on the pediatric EMU
- Protect patient privacy
- Demonstrate sensitivity to race, gender, ethnic background, religion, sexual orientation, and other social factors in dealing with patient care and interactions with other providers and other learners
- Treat colleagues at all levels with respect
- Display openness to supervision and accept constructive feedback
- Attend daily EEG reading sessions in the pediatric EMU
- Attend weekly pediatric epilepsy conference

**Practice-based Learning and Improvement.** Demonstrate knowledge, skills, and attitudes needed for continuous self-assessment, using scientific methods and evidence to investigate, evaluate, and improve one’s patient care practice.

Objectives:
- Access and critically appraise scientific literature relevant to the care of patients with epilepsy
- Access learning sources (textbooks, medical literature, online resources) to fill gaps in knowledge that are identified during case discussions
- Identify strengths, deficiencies, and limits to knowledge and expertise
- Participate in the education of students, residents, and other health care professionals

**Systems Based Practice.** Understand how to practice quality health care and advocate for patients within the context of the health care system.

Objectives:
- Understand the role of the physicians order, appropriate history and the electronic medical record as they pertain to proper EEG interpretation
- Learn the relative cost to the patient and society of neurophysiological evaluations
- Provide timely delivery of EEG results to inpatient care providers