

NEUROLOGY

Elective Clerkships

Clerkship website: <http://courses.washington.edu/neural/>

NEURL 685 P-Epilepsy and Clinical Electroencephalography (*, max 8)

Offered:	AWSpS; 2/4
Enrollment:	1 student per rotation.
Prerequisite:	Completion of HuBio series.
Location:	Seattle
Facility:	Harborview Medical Center
Site Coordinator:	John Miller, MD
Administrative Contact:	Goldie Pontrelli, 206-616-6992, neural@u.washington.edu

Clerkship website: <http://courses.washington.edu/neural/eeg.htm>

Course description: Medical students will receive an introduction into epilepsy and the use and interpretation of the electroencephalogram and other clinical studies used to assess it. Each student will be under the direct supervision of several of the faculty epileptologists and clinical neurophysiologists.

Electroencephalography is particularly valuable in confirming the diagnosis of and forming the basis for the classification of the different types of human epilepsy. Expanded use of the EEG includes electrocorticography, where direct recording of the brain's electrical activity is obtained at the time of epilepsy surgery and helps to guide the removal of abnormal brain tissues. EEG linked to video-audio systems is the basis for long-term epilepsy monitoring, where clinical and electrical events during a given seizure are correlated for patient management and care. The results of long-term epilepsy monitoring are frequently utilized to guide epilepsy surgery.

This clerkship is also designed to give experience and training in the evaluation and treatment of epileptic seizures and other spells. Will include working one-on-one with Epilepsy Center faculty in the outpatient setting, managing patients during long video EEG monitoring, and attendance at Epilepsy Center conferences and lectures. Experience in pediatric epilepsy can be arranged as appropriate. Participation in research can also be arranged on an individual basis as a separate experience.

Goals and objectives:

1. Acquire a familiarity with the clinical role of EEG.
 - **Benchmark:** Students will learn the clinical indications for EEGs, and learn how the results are applied in clinical decisions.
 - **Curriculum:** One day will be spent under the supervision of an EEG technologist observing how to apply electrodes and run the recorder. Three afternoons per week will be spent reviewing EEGs with the fellows and attendings. A copy of the EEG chapter from Baker and Baker Neurology (this is no longer copyrighted) will be provided on the first day.
2. Learn to take care of patients with epilepsy.
 - **Benchmark:** Understand the different causes and treatments for epilepsy. How does epilepsy affect the daily lives of this population?
 - **Curriculum:** One-half day per week will be spent in clinic seeing patients. Most of the experience in clinic will be shadowing attendings. You will join the inpatient team on daily morning rounds. A selection of relevant textbooks will be available for borrowing.
3. Epilepsy conference presentation.
 - **Benchmark:** Each week the epilepsy neurologists and neurosurgeons get together to discuss patients. The student will understand the general reasons to choose medical vs surgical therapy.
 - **Curriculum:** Present one patient at epilepsy conference, and participate in case management discussion. The specific case to be presented will be selected by the inpatient epilepsy attending.
4. Inpatient monitoring.

- **Benchmark:** Understand the reasons for admitting patients for long-term monitoring.
- **Curriculum:** Join rounds every morning. Admit and follow at least one patient at a time and write daily progress notes.

NEURL 687 P- Advanced Clinical Clerkship in Child Neurology (*, max 8)

Offered:	AWSpS; 4 weeks full-time.
Enrollment:	1 student per 4-week rotation.
Prerequisite:	Peds 665P. Third- and fourth-year medical students.
Location:	Seattle
Facility:	Seattle Children's Hospital
Site Coordinator:	Dr. Sidney Gospe
Administrative Contact:	Goldie Pontrelli, 206-616-6992, neural@u.washington.edu

Advanced course in neurology dealing with neurological disease in children. It will include inpatient and outpatient experience. It is supplemental to the required rotation in adult neurology (NEURL 686P), although this is not a prerequisite. However, for a student who desires additional pediatric experience together with neurology, this course is recommended. Emphasis on improving clinical skills in performing neurological examinations and interpreting findings. Supervision by child neurology residents and attendings.

Pediatric Neurology Clerkship

Goals and objectives:

1. Learn the fundamentals of the neurological history and exam for children.
 - a. **Curriculum:** Residents and attendings at Children's hospital will teach the pediatric neurological exam, and the essentials of taking a pediatric neurological (developmental) history. During Thursday didactics at UWMC, a systematic review of the general (adult) neurological exam will occur.
 - b. **Benchmark:** The student will perform neurological history and physical exam assessments on hospitalized patients and present them to the chief resident and then to the attending. In addition, by participating in Thursday didactics at UWMC, the student will reinforce his/her skills in performing the general (adult) neurology exam.
2. Learn to take care of children with epilepsy.
 - a. **Curriculum:** About 50% of the hospitalized patients evaluated by the pediatric neurology service are children with epilepsy or acute symptomatic seizures. During the four week rotation, the student will have a broad exposure to various epileptic conditions that affect children. Students will learn the clinical indications for EEGs, and how the results are applied in clinical decisions. A selection of relevant textbooks will be available for borrowing.
 - b. **Benchmark:** Understand the different causes and treatments for epilepsy in childhood. How does epilepsy affect the daily lives of these children and their caregivers?
3. Have clinical exposure to other pediatric neurological diseases.
 - a. **Curriculum:** Students will also have exposure to pediatric patients with altered mental status, neuromuscular disorders, and neurometabolic disorders.
 - b. **Benchmark:** The chief resident and attending will be responsible for assigning patients for the student to follow and evaluate so that a broad exposure to pediatric neurological disorders is obtained.
4. Pediatric Neurology conference presentation.
 - a. **Curriculum:** Each week the pediatric neurology service at Children's Hospital conducts two conferences: a didactic conference (Tuesday noon resident didactic conference) and a case-based conference (Friday AM clinical conference). The student will be expected to attend both conferences each week.
 - b. **Benchmark:** During the third or fourth week of the rotation, after consultation with the clerkship director, the student will be expected to either present a topic at the Tuesday noon conference, or assist with the presentation and discussion of a current case at the Friday clinical conference.

NEURL 697 P- Neurology Special Electives (*, max 24)

Offered:	AWSpS.
Total Enrollment:	Variable
Prerequisite:	Permission of department + 2 month application process
Faculty Contact:	Eric Kraus, M.D.
Administrative Contact:	Goldie Pontrelli, 206-616-6992, neural@u.washington.edu

By specific arrangement for qualified students, special clerkships or 'away clerkships' may be available at institutions other than the University of Washington. Interested students should submit a "Credit for Away Clerkship" form available from the UWSOM Dean's Office Registrar and complete for departmental approval at least two months before advance registration.

Evaluations:

Departmental evaluations are required to be completed by faculty and student prior to receiving a grade.

NEURL 699 P- WWAMI Neurology Special Electives (*, max 24)

Offered:	AWSpS.
Total Enrollment:	Variable
Prerequisite:	Permission of department + 2 month application process
Faculty Contact:	Eric Kraus, M.D.
Administrative Contact:	Goldie Pontrelli, 206-616-6992, neural@u.washington.edu

By specific arrangement for qualified students, special clerkships or 'away clerkships' may be available at institutions other than the University of Washington located within the WWAMI region. Interested students should obtain a "Credit for Away Clerkship in WWAMI" form available from the UWSOM Dean's Office Registrar and complete for departmental approval at least two months before advance registration.

Evaluations:

Departmental evaluations are required to be completed by faculty and student prior to receiving a grade.

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