

Elective Description

Campus: Southwest

Elective Title: Neurology

Location of Elective: CHI St. Alexius Health, Sanford Health Bismarck, Mid Dakota Clinic

Department: Neurology

Course Number: NEUR 9102

Preceptor(s): Ralph T. Dunnigan, MD; Shiraz Hyder, MD; Tessa Marburger, MD; David Henzler, MD

Period(s) offered: All

Number of students per period: 1

Course prerequisites: Complete Clerkship

Revised Curriculum Phase(s): 3

Purpose: To provide an opportunity for an advanced experience in neurological exam and in the evaluation and management of common neurological and neurosurgical patients.

Objectives: Following successful completion of this elective, the student will be able to:

1. Demonstrate competency in taking a complete history and neurological history, perform a neurological examination and provide a differential diagnosis in the common disorders affecting the nervous system.
2. Describe the roles of diagnostic procedures in the evaluation of neurological disorders, such as EMG, nerve conduction studies, evoked potential, CT scanning, angiograph, EEG and other neuroradiological and electrodiagnostic studies in the evaluation of neurological disease.
3. Describe the logical or orderly sequential diagnostic approach in the evaluation of patients with neurological disorders and the development of an appropriate treatment plan for such patients.
4. Correlate the neurologic signs and symptoms and findings with the neuroanatomical and neurophysiological disorders in the development of an appropriate treatment plan.
5. Improve management skills of patients with neurological disorders, both in the outpatient and inpatient setting.

Instructional Activities: During this elective, the student will be involved in/experience:

1. Presentation and discussion of clinical neurological cases with attending faculty.
2. Carry out complete physical examinations with emphasis on the neurological aspects of the case with a number of patients.
3. Participate in rounds on a regular basis on the neurological service; participate in neurological grand rounds; attend appropriate conferences.
4. Participate in evening and weekend on call schedule.

Criteria for Grading: During and following this elective, the preceptor will:

1. Judge by direct observation or review of clinical records the students ability to complete a physical examination with an emphasis on neurological aspects.
2. Evaluate by direct observation the student's ability to arrive at a proper differential diagnosis and formulate a proper treatment plan.
3. Evaluate by direct observation or written report the student's ability to correlate the neurological signs and symptoms to the neuroanatomical and neuropathological location with the neurophysiological and neuropathological location of a lesion.
4. Evaluate and review the student's ability to cite pertinent current literature relevant to common neurological disorders.
5. Utilize the standardized UNDSMHS senior elective form.