

Elective Description

Campus: Southeast (Fargo)

Elective/Experience Title: Neurosurgery

Department: Surgery

Course Number: SURG 9235

Location of Elective: Sanford Health – Fargo, ND

Preceptor(s): Alexander Drofa, MD; Adam Jackson, MD; Marcus Keep, MD; Evgueni Kouznetsov, MD; Behzad Sabit, MD;

Tong Yang, MD

Period(s) Offered: All periods Course Prerequisites: Completion of Surgery Clerkship

Number of students per period: 1 student Revised Curriculum Phase(s): 2 & 3

Purpose: Students will learn about neurological and neurosurgical disorders and management of patients with such

disorders.

Objectives: Following successful completion of this elective, the <u>student</u> will be able to:

- 1. Display competency obtaining a neurologic history, performing a neurologic examination, and differentiating between common disorders affecting the nervous system.
- 2. Appreciate the roles of various specialized diagnostic procedures such as EEG, EMG, CAT scanning, MRI, angiography, and other neuroradiological studies in the evaluation of neurological and neurosurgical disorders.
- 3. Describe the diagnostic approach to patients with neurological and neurosurgical disorders and develop treatment plans for patients with such disorders.
- 4. Describe how to correlate neurological findings with the location of neuroanatomical and neurophysiological lesions.
- 5. Describe the short-term and long-term management of patients with neurological and neurosurgical disorders.

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

- 1. Functioning as in intern in close association with the neurosurgical teaching staff and under the supervision of the chief of the Department of Neurosurgery.
- 2. Assignment of certain patients for diagnostic workups, special diagnostic procedures, and assist in the surgical procedures for the patients after the student has gained experience in diagnostic evaluations.
- 3. Involvement in the postoperative care and management in association with the neurosurgical staff.
- 4. Participation in evening rounds and participation in emergency call and in the emergency care of those patients requiring such care.
- 5. The opportunity to accompany members of the neurosurgical staff on recheck of outpatient visits.
- 6. Participation in all autopsies that are carried out during the period of the elective.
- 7. The opportunity of becoming involved in research activities.

Criteria for Grading: During and following this elective, the <u>preceptor</u> will:

- 1. Assess by direct observation the ability of the student to obtain a neurologic history and perform a neurologic examination.
- 2. Assess by direct observation the ability of the student to present a patient and discuss a differential diagnosis and treatment plan.
- 3. Judge by direct observation the competency of the student in ordering appropriate laboratory, x-ray, and specific diagnostic studies.
- 4. Assess by direct observation the ability of the student to relate the neurological findings to the neuroanatomical and neuropathological location of the lesion.
- 5. Evaluate the student's written histories, examinations and consult reports.
- 6. Judge by direct observation the competency of the student in meeting standards of performance.
- 7. Judge by direct observation the student's professional attitudes and behavior to medical staff and patients.
- 8. Utilize the standardized UNDSMHS senior elective form.

Updated: November 2023 Formerly NEUR 9201