

**Title of Clerkship:** Neurological Surgery

**Elective Type:** Fourth-Year Elective

**Department:** Surgery

**Type of Elective:** Clinical  Non-Clinical/Research  Basic Science

**Clerkship Site:** ProMedica Physician's Neurosurgery-Toledo Hospital

**Course Number:** NEUS 705

**Blocks available:** All

**Number of students per block:** 1

**Faculty:** Kevin Reinard, M.D. and Dr. Brandon Gabel

**Elective Description/ Requirements:** In the Advanced Neurological Surgery elective the student will be integrated into the Neurosurgery Service as a sub-intern, with appropriate responsibility for diagnosis and management of patients. The student will be assigned a specific Neuroscience topic for presentation.

**Length of Clerkship:** 4 weeks

**Links to EPOs**

PC-2, PC-3, MK-1  
PC-7, PC-8, MK-4,  
MK-7

PC-7, PC-8, PC-9,  
MK-4, MK-7

PC-7, PC-8, PC-9,  
MK-4, MK-7

PC-7, PC-8, PC-9,  
MK-4, MK-7

PC-1, PC-2, PC-3,  
PC-4, MK-7

PC-1, PC-2, PC-3

IPC-1, IPC-2, PC-1,  
PC-3, PC-4, PC-7

IPC-1, IPC-2, PC-1,  
PC-3

**Educational Course Objectives:** At the end of the rotation the student will be able to:

1. Independently perform a focused history and comprehensive neuro exam
2. Describe signs and symptoms of common lumbar and cervical root syndromes
3. Evaluate the patient in coma and discuss the differentiated diagnosis of coma
4. Evaluate the patient with head or spinal cord injury
5. Evaluate the patient with increased intracranial pressure and differentiate between symptoms related to brain tumors, intracranial hemorrhage and stroke
6. Synthesize the history, diagnostic, and clinical information to formulate a differential diagnosis and suggested treatment plan of patients with common neurological syndromes
7. Independently perform both focused and comprehensive history and physical exam
8. Write a complete and accurate daily progress note including interpretation of results of laboratory and radiographic/imaging studies
9. Accurately present patient information concerning the patient's condition, progress and results of laboratory and imaging studies

**Professionalism:** UT/COMLS students will meet or exceed the institutional standards for professionalism as stated in the current Core Competencies and the current Educational Course Objectives for the Sponsoring Department.

**Instructional Methods:**

1. Interpretation of lab data
2. Diagnostic tests-use/interpretation
3. Small group discussions
4. Case studies
5. Ambulatory care experience

6. Grand rounds
7. Teaching rounds

**Evaluation methods**  
**Employed:**

1. Clinical competency evaluations
2. Faculty/Resident observation
3. Professional assessments
4. Attendance
5. Case write up

**Prerequisites:** Successful completion of required Surgery clerkship.

**Clerkship Director:** Stephanie Pannell, M.D..

**Clerkship**  
**Coordinator:** Claudia Davis  
**Phone Number:** 419.383.3580  
**Email:** [Claudia.davis@utoledo.edu](mailto:Claudia.davis@utoledo.edu)

**Special**  
**Requirements:** Rotation requires approval from clerkship director through the coordinator. Participation in night call is recommended because many cases come in after hours. A call schedule may be arranged per individual faculty member.