**Title of Clerkship:** Neurological Surgery Elective (4 week)

**Elective Type:** Third Year Elective

**Department:** Neurological Surgery

**Clerkship Site:** The University of Toledo Medical Center

**Course ID:** NEUS760

**Blocks available:** All

**Number of students per block:** 1

**Faculty:** Azedine Medhkour, M.D. and Daniel Gaudin, M.D.

**Elective Description/Requirements:** In the Neurological Surgery elective the student will be integrated into the Neurosurgery Service 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**

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| S4, K1 | 1. Perform a screening neurologic exam. |
| S7, S8, K4, K7 | 2. Recognize signs and symptoms of common lumbar and cervical root syndromes. |
| S7, S8, S9, S10, K4, K7 | 3. Evaluate the patient in coma and discuss the differentiated diagnosis of coma. |
| S7, S8, S9, S10, K4, K7 | 4. Evaluate the patient with head or spinal cord injury. |
| S7, S8, S9, S10, K4, K7 | 5. Evaluate the patient with increased intracranial pressure and differentiate between symptoms related to brain tumors, intracranial hemorrhage and stroke. |
| S3, S4, S5, K7 | 6. Summarize the history and physical exam, differential diagnosis, interpretation of imaging studies and suggested treatment plan of patients with common neurological syndromes. |
| S11, S8, K3, K8 | 7. Review the journal literature pertinent to a selected area and evaluate selected reviews. |
| S1, S3, S5, S7 | 8. Write a complete and accurate daily progress note including interpretation of results of laboratory and radiographic/imaging studies. |
| S1, S3 | 9. Accurately present patient information concerning the patient's condition, progress and results of laboratory and radiographic/imaging studies. |
| S1, S3, S5, S7 | 10. Write a complete and accurate daily progress note including interpretation of results of laboratory and radiographic/imaging studies. |

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

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- Perform a screening neurologic exam.
- Recognize signs and symptoms of common lumbar and cervical root syndromes.
- Evaluate the patient in coma and discuss the differentiated diagnosis of coma.
- Evaluate the patient with head or spinal cord injury.
- Evaluate the patient with increased intracranial pressure and differentiate between symptoms related to brain tumors, intracranial hemorrhage and stroke.
- Summarize the history and physical exam, differential diagnosis, interpretation of imaging studies and suggested treatment plan of patients with common neurological syndromes.
- Review the journal literature pertinent to a selected area and evaluate selected reviews.
- Write a complete and accurate daily progress note including interpretation of results of laboratory and radiographic/imaging studies.
- Accurately present patient information concerning the patient's condition, progress and results of laboratory and radiographic/imaging studies.
- Write a complete and accurate daily progress note including interpretation of results of laboratory and radiographic/imaging studies.

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

**Instructional Methods:**

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1. Interpretation of lab data
2. Diagnostic tests-use/interpretation
3. Small group discussion
4. Case studies
5. Ambulatory care experience
6. Grand Rounds
7. Teaching Rounds
8. Residency program/department conferences

**Evaluation methods employed:**

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

**Prerequisites:** Successful completion of Yrs. 1 & 2, and a passing score on USMLE Step 1

**Clerkship Director:** David Heidt, M.D.

**Clerkship Coordinator:** Claudia Davis

**Phone Number:** 419.383.3380

**Email:** Claudia.davis@utoledo.edu

**Special Requirements:** Participation in night call is recommended because many cases come in after hours. A call schedule will be arranged per individual.

**AAMC Hot Topics Addressed in this Elective Clerkship:** Research Methods (35 and 36)