NOP 656
CORE NEUROLOGY CLERKSHIP

Clerkship Required Rotation (R2) Syllabus

DEPARTMENT OF NEUROLOGY & OPHTHALMOLOGY

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EFFECTIVE AUGUST 2, 2021 TO JULY 31, 2022

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At MSUCOM, we are constantly working to improve our curriculum and to meet new AOA accreditation guidelines. We need to meet the challenges of modern medicine that force us to innovate. While changes will generally be instituted at the beginning of the school year, changes may also be implemented semester to semester.

Please be mindful of the need to read your syllabi before beginning your rotations.
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INTRODUCTION AND OVERVIEW
Welcome to Neurology. This syllabus provides an overview of the requirements and expectations of the rotation as well as a guide to help you gain an understanding of the breadth of the field of neurology.

BACKGROUND
Neurological complaints and pathology comprise a substantial share of the patient population treated by primary care physicians. Authors debate the average percentage of a primary care physician outpatient practice that is devoted to neurology, but the range is approximately 10 to 25% depending upon individual practice situations.

There is a remarkable view of the nervous system as a “black box”. It is easy to recognize when there is something wrong with the nervous system, but regrettably there is little insight by many physicians regarding the localization, nature and severity of the lesion, workup and/or treatment strategies. As such, this neurology rotation with specific goals, objectives and learning material has been created.

ROTATION FORMAT
This rotation is designed to provide you with a basic foundation and ameliorate the complexities of neurology. Furthermore, it is a direct continuation of the material you have already learned in your OST 571 (Neuromusculoskeletal) course taken previously.

Currently, there are numerous base hospitals, each with diverse clinical and teaching opportunities. In some settings, a student may have the opportunity to rotate on an inpatient service, while others may see patients with neurological conditions in an outpatient clinic or both settings. Nonetheless, your clinical experience will be supplemented with online didactic material covering the primary areas of neurology and meeting the goals and objectives listed. You will need computer access to utilize Desire2Learn (D2L) through which the online didactic material has been divided into weekly blocks. Each block consists of specific topics with goals and objectives along with the appropriate lecture material, recommended book chapter(s), article(s), and/or videos. You are strongly urged to work through these daily. While you are not required to go through the weekly blocks in the order listed in D2L, it is recommended that you start with the material located under week 1, which contains information on how to perform the neurological examination. You should focus on the material located under the REQUIRED sections within each weekly block. Additional Reference Material has also been included for each weekly block but is not required.

At the end of the rotation, you will be required to take and pass an online examination through D2L.

GOALS AND OBJECTIVES

GOALS
1. Develop the ability to perform a competent neurological examination
2. Learn to localize neurological lesions based on history and neurological examination

OBJECTIVES
1. Acquire an understanding of the major neurological disorders
2. Acquire an understanding of basic laboratory tests necessary to pursue a suspected diagnosis; including, but not limited to, electrophysiology, neuroimaging (CT, MRI, etc.), CSF, hematology and metabolic analysis, history and general physical exam.
3. Develop an understanding of the neuropathology, prognosis and treatment strategies for common neurological conditions

COLLEGE PROGRAM OBJECTIVES

In addition to the above course-specific goals and learning objectives, this clerkship rotation also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website (https://com.msu.edu/) and in the Student Handbook.

REFERENCES

SUGGESTED STUDY RESOURCES

Suggested Textbooks

The following is a list of recommended textbooks that can be used to supplement both the online educational material located through D2L and the clinical experience. However, listed on the D2L site are specific recommended textbook chapters (or pages) corresponding to the weekly objectives and goals; these may be different than those references listed below.

The first book listed (Neuroanatomy through Clinical Cases) is the required text for the OST 571 course taught at MSU. All the other listed texts are available through the MSU library website (www.lib.msu.edu) in electronic format and therefore, are free.

The MSU library has numerous other electronic and standard Neurology textbooks that can be used as well. The choice of additional material is at the discretion of the individual student. However, it is recommended that one or more of these materials are utilized in order to enhance the educational experience and prepare for the end of the rotation written examination.

*Neuroanatomy Through Clinical Cases, Blumenfeld*: This reviews the basics of neuroanatomy through clinical cases and localization. Required text in the OST 571 course.


*Neurology [electronic resource]*: Pretest self-assessment and review: McGraw Hill Medical Pub., c2001. This is a good study guide to help with the final written examination that will be delivered at the end of the rotation.

*Neurology Secrets [electronic resource]* Mosby/Elsevier, 2010. This is a helpful quick reference guide.

*Clinical Adult Neurology. [electronic resource]*. New York: Demos Medical, 2009; concise and easy to read.

Pediatric Neurology

*Clinical Pediatric Neurology [electronic resource]* New York: Demos Medical, 2009

Neuroradiology


ROTATION REQUIREMENTS

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>SUBMISSION METHOD</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neurology Final Examination</td>
<td>Desire2Learn</td>
<td>4:00 p.m. on the last Friday of the rotation</td>
</tr>
<tr>
<td>Student Experience Log</td>
<td>Desire2Learn</td>
<td>11:59 p.m. on the last Sunday of the rotation</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td>Last Day of Rotation</td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation</td>
<td>Can be accessed via the “Student Evaluation” link in Kobiljak online schedule.</td>
<td>Last Day of Rotation</td>
</tr>
<tr>
<td>Neurology Grand Round Attendance</td>
<td>In person attendance or attending through Zoom</td>
<td>Attend 75% of grand rounds presentations (only missing one,) while in session September–May of the academic year</td>
</tr>
</tbody>
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WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS

Week 1

TOPICS

- Neurological examination
- Review of neuroanatomy
- General concepts in lesion localization and formulation of common differential diagnoses

SPECIFIC LEARNING OBJECTIVES

- Learn how to properly perform the neurological examination in the awake and cooperative patient
- Learn how to properly perform the neurological examination in the uncooperative or comatose patient
- Review the basic structures and common pathways in neuroanatomy
- Describe the common modalities used in neuroimaging
- Learn to recognize normal anatomic structures on neuroimaging
- Learn to recognize common abnormal findings on neuroimaging
Week 2

TOPICS
- Stroke/TIA
- CNS hematomas and hemorrhages
- Seizures/Epilepsy
- Neurological infections
- CNS malignancies

SPECIFIC LEARNING OBJECTIVES
- Classify the 2 major stroke subtypes
- Describe the common causes of ischemic strokes
- Learn to recognize the signs and symptoms of an acute ischemic stroke
- Discern TIA from stroke
- Appropriate management/treatment of acute vs chronic strokes
- Understand the contraindications in treating acute strokes with tPA.
- Understand the etiologies of the various cerebral hematoma types and hemorrhage
- Define the different types of seizures
- Learn to correctly recognize and treat seizures/epilepsy
- Be able to correctly diagnose and treat status epilepticus and non-convulsive status epilepticus.
- Understand the appropriate evaluation and treatment of CNS infections—meningitis
- Learn the characteristics of common malignant (GBM), metastasis and non-malignant (meningioma) CNS tumors

Week 3

TOPICS
- Neuromuscular disorders
- Encephalopathy
- Coma
- Headaches
- Vertigo

SPECIFIC LEARNING OBJECTIVES
- Understand the causes and treatment of common neuromuscular conditions—Myasthenia gravis, ALS, peripheral neuropathy, radiculopathy, inflammatory myopathies
- Be able to recognize and treat emergent neuromuscular conditions—AIDP.
- Understand common causes of encephalopathy
- Learn to differentiate emergent versus non-emergent causes of encephalopathy
- Understand the common causes of coma
- Learn to differentiate emergent from non-emergent causes of headaches
- Understand common headache types and treatments—migraines, tension headaches, rebound headaches, cluster headaches
• Be able to correctly obtain the appropriate workup and treatment of emergent causes of headaches
• Be able to discern the common causes of vertigo (BPPV) and the appropriate treatment
• Be able to discern emergent from non-emergent causes of vertigo

Week 4

TOPICS
• Neuro-Ophthalmology
• Multiple sclerosis
• Movement disorders
• Dementia

SPECIFIC LEARNING OBJECTIVES
• Differentiate mono-ocular from binocular diplopia
• Understand common causes of diplopia
• Learn about common neurological causes of acute and sub-acute vision loss
• Understand the criteria required to diagnose Multiple sclerosis
• Understand the various treatment modalities used in in Multiple sclerosis
• Learn the symptoms and signs in common movement disorders (Parkinson’s disease, essential tremor, cervical dystonia, and chorea)
• Understand the treatments used in common movement disorders
• Understand the common types and treatments of dementia

QUIZZES
The final examination for the neurology rotation will consist of multiple-choice case and non-case-based style questions. Passing the examination is a requirement for the rotation.

Exam Preparation
All of the questions will be based on the defined weekly topic objectives listed in the syllabus and D2L website. It is recommended that you study the appropriate content as defined and provided on D2L. You are STRONGLY encouraged to take the practice examination located under the Practice Examination section prior to taking the final examination!

Exam Administration
To take this exam, you must log onto the D2L website for this course and complete the online exam, which is based on the preparatory material mentioned above. The test will be made available on D2L starting at the beginning of week 3 of your rotation and ending at 4:00pm on the last Friday of week 4 of your rotation. Students would be wise to use the preparatory material to study before taking the online exam. If you are experiencing technological issues taking the exam, please contact the HELP DESK 517.355.2345. For all other issues, contact Sandra Holliday at hollida4@msu.edu.

Exam Scoring
In order to pass the examination, a minimum 60% is required. If you receive less than the minimum score required on the final exam (60%), you will be given a single 24-hour window to retake the exam within a week of the original deadline. Students who fail to take the final exam by 4 PM on the last Friday of the rotation will automatically receive an N grade and be required to repeat this rotation.
STUDENT EXPERIENCE LOGS

On the 1st day of your rotation, identify at least ONE attending physician to sign your Student Experience Log and your Student Evaluation. You can have signatures from different attendings for each required signature, but you must always request these signatures IN ADVANCE!

IMPORTANT NOTE: The student will maintain an “Extended” (ET) grade until they have successfully completed all academic and clinical requirements for the course. Please see Corrective Action below.

ROTATION EVALUATIONS

Attending Evaluation of Student
Students are responsible for assuring that his/her clinical supervisor receives the appropriate evaluation form. Forms can be accessed via the “Attending Evaluation” link in the student’s Kobiljak online Clerkship schedule.

Students should actively seek feedback on his/her performance throughout the course of the clinical rotation. Students should also sit down and discuss the formal evaluation with the clinical supervisor.

Students should keep a copy of the evaluation and leave the original with the Medical Education Office at the clinical training site where that office will review, sign, and forward the completed form to the COM Clerkship Team. Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” and will be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct or to the Committee on Student Evaluation (COSE).

Grades are held until all rotation requirements, including evaluation forms, are received. Be sure you are using the correct form.

Student Evaluation of Clerkship Rotation
Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing their online evaluation system at:

http://hit-filemakerwb.hc.msu.edu/Clerkship/login_student.html

 Unsatisfactory Clinical Performance
The Instructor of Record and/or the Assistant Dean for Clerkship Education will review/investigate a student’s performance on a rotation when a concern is raised by the supervisor(s), and when the Attending Evaluation of Clerkship Student contains any below expectation marks within the professionalism area, any unsatisfactory written comments, or a total of two or more below average marks on the evaluation.

Professionalism concerns, as well as accolades, will also be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct.
CORRECTIVE ACTION PROCESS

If a student does not successfully complete the rotation requirements of the course, the student will receive an ET grade and be permitted to go through a ‘Corrective Action’ process.

The following assignments are eligible for corrective action and will be due no later than 14 days after the last day of the rotation at 11:59pm:

1. Final Exam
   - For students who complete but do not achieve the minimum passing score (60%) on the final exam by the deadline, one additional attempt will be granted within one week after the failed attempt.

2. Evaluations and Student Experience Log
   - If evaluations and Student Experience Log are not submitted by 11:59pm on the last day of rotation, an ET grade will be given. Students will then have until 11:59pm 14 days after the last day of rotation to submit the missing assignments.

The student is responsible for contacting the Course Assistant (on the first page of this syllabus) if they believe missing assignments were reported in error or are unclear about the Corrective Action process.

Please note that while it is the responsibility of the student to ensure the Attending Evaluation of the Clerkship Student is completed, this requirement may extend beyond the corrective action date.

As determined by the Instructor of Record, the student will receive an N grade for the course if all assignments and the Corrective Action process are not completed successfully within 14 days after the last day of rotation at 11:59pm (with the exception of the Attending Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

If a student successfully completes the Corrective Action process, as determined by the Instructor of Record, the student will receive credit for the deficient academic grading requirement(s) and be eligible for a rotation grade change from ET to Pass (pending the Attending Evaluation of the Clerkship Student).

BASE HOSPITAL REQUIREMENTS

Students are responsible for completing all additional requirements set by the hospital/clinical site in which the student is completing the rotation. Students are not responsible for reporting results of requirements outside the ones listed above to the college.

STUDENT RESPONSIBILITIES AND EXPECTATIONS

During the course of this month, the student is expected to take a proactive approach to learning about the discipline of neurology. Students should make every effort to have an initial orientation session with their attending physician in an effort to review goals, objectives and expectations on both the part of the preceptor and student. During this initial orientation meeting, students should present the preceptor with both a copy of their evaluation form as well as review this syllabus with him or her. Doing so will improve the overall rotational experience in terms of training and evaluation. Students should also suggest to have a mid-month evaluation during the rotation to gain formative feedback and make adjustments as needed based on commentary from the preceptor. Doing so will encourage active participation and improve summative evaluations that occur at the end of the rotation.

It is expected that the student will meet the following clinical responsibilities during this rotation:
• Report to their rotation in a timely fashion and dressed appropriately for each day of work. Be cognizant of any scheduling changes that occur and provide timely communication to the preceptor about excused or unexpected absences.
• Demonstrate an enthusiastic and proactive attitude towards the learning process.
• Treat all staff members, other rotators and patients with respect and demonstrate professional behavior in all interactions.
• Not engage in behaviors that are either: unprofessional/unethical, illegal or pose a risk to the patient or practice. If there is a question about something you are asked to do, speak with your presenting physician or (if the person you have concern about is the presenting physician) your Student Coordinator and/or Director of Medical Education for your base hospital.
• Complete any and all requested responsibilities in a timely fashion and as directed by your presenting physician excepting behaviors mentioned previously.
• Represent yourself, fellow students and the College in a positive and professional manner.
• Students are expected to function collaboratively on health care teams that include health professionals from other disciplines in the provision of quality, patient-centered care.

It is expected that the student will meet the following academic responsibilities during this rotation:
• Complete all College’s curricular elements of the rotation as specified in this syllabus in a timely fashion.
• Regularly access and review content provided within Desire2Learn (D2L) during the rotation to support and supplement your active learning process.
• Attend the C3 didactic sessions provided during this month as indicated in the C3 (OST 603) syllabus. No exception for this attendance is allowed except as approved by the C3 Director of your base hospital, the Instructor of Record for OST 603 and/or the Director of Medical Education of your base hospital.
• Students are expected to identify, access, interpret and apply medical evidence contained in the scientific literature related to patient’s health problems.
• Students are expected to: assess their personal learning needs specific to this clinical rotation, engage in deliberate, independent learning activities to address their gaps in knowledge, skills or attitudes; and solicit feedback and use it on a daily basis to continuously improve their clinical practice.
• All students on the Neurology rotation are required to attend Grand Rounds and Case presentations each Friday from September - May. These start at 7:30am each Friday and usually run until 9:30am. You are allowed to miss only ONE of the Friday morning sessions per rotation block. If you miss more than one you are at risk of failing the course unless that absence has been approved by the Instructor of Record.
• All students doing their Neurology rotation at MSU Neurology Clinics, Sparrow or McLaren Greater Lansing are required to attend additional scheduled Zoom educational session setup through the MSU Department of Neurology and Ophthalmology. Emails and meeting notices will be sent to you directly with this information.
• For all other students at different sites, if you are not involved in active patient care, other educational sessions or other obligations as mandated by your current attending or senior resident, you are expected to attend these additional Zoom educational sessions.
• Students are responsible for informing your attending physician (s) and senior resident (s) that you will be attending these sessions.
• Students are responsible for checking their emails daily for presentations dates, times, and zoom details for attendance.

Failure to meet the clinical and/or academic responsibilities (as determined by your preceptor, Director of Medical Education of your base hospital and Instructor of Record for NOP 656) may result in a failing grade “N” for this course.
ATTIRE AND ETIQUETTE
If the students are assigned to work within the hospital, the student may wear scrubs, white coats, or business casual attire. If the student is assigned to work within the outpatient clinic, they will be expected to dress in business casual with their white coats and no tennis will be permitted in the clinic.

MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES
The following are standard MSUCOM policies across all Clerkship rotations.

ATTENDANCE POLICY

OVERVIEW
Michigan State University College of Osteopathic Medicine (MSUCOM) requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge that are necessary for successful program completion. Students are expected to take minimal time off outside of vacations already appearing in schedules and should only request time off in the rare events and circumstances outlined below.

Specific courses may have additional absence requirements from this general clerkship policy, and it is the student’s responsibility to adhere to these requirements according to the respective course syllabus.

GENERAL POLICY
- All absences from rotations must be excused absences obtained by completing the Clerkship Program Excused Absence Request Form.
  - Appropriate signatures must be obtained from both the attending physician and the student coordinator at the rotation site.
  - MSUCOM Assistant Dean for Clerkship Education must approve absences for prolonged illnesses, bereavement, research presentations/conferences, or absences exceeding the maximum time off any one rotation.
  - Once appropriate approval signatures are obtained, forms should be maintained for your records in the event they are requested or required at a later date.

- Unexcused absences are absences taken without the proper completion of the Clerkship Program Excused Absence Request Form, or absences outside of those listed in the Clerkship Attendance Policy. Unexcused absences are considered unprofessional and will result in a report to the Spartan Community Clearing House and/or the MSUCOM Committee on Student Evaluation (COSE).

<table>
<thead>
<tr>
<th>Length of rotation</th>
<th>Maximum number of days off</th>
<th>Should an absence exceed these limits, the student is responsible for requesting additional days from the Assistant Dean for Clerkship Education via email (<a href="mailto:com.clerkship@msu.edu">com.clerkship@msu.edu</a>) prior to the absence.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>2 days</td>
<td></td>
</tr>
<tr>
<td>2 weeks</td>
<td>0 days</td>
<td></td>
</tr>
</tbody>
</table>

Exception for residency interviews from October to January in Year 4 only
A fourth-year student may be absent a total of 4 days on any 4-week rotation, or 2 days on any 2-week rotation during the months of October-January during Year 4 for interview purposes only. If interview absences exceed these totals, the student must request additional days off from the MSUCOM Instructor of Record (IOR) for the course/rotation by submitting a Clerkship Program Excused Absence Request Form to the Course Assistant (CA). Contact information for the IOR and CA are found on the first page of the respective MSUCOM course syllabus.
<table>
<thead>
<tr>
<th>Absence Type</th>
<th>Qualifications</th>
<th>Maximum number of days off</th>
<th>Details</th>
<th>Required Approval from Assistant Dean for Clerkship Education</th>
</tr>
</thead>
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<tr>
<td>Personal Day</td>
<td>Illness Medical/Dental appointments Wedding, family graduations (additional reasons must be discussed with the Asst Dean for Clerkship Education prior to request)</td>
<td>5 total days per year (individual events must comply with the max of 2 days off any 4-week rotation)</td>
<td>Vacations must be planned during allotted vacation time in schedule. Vacations are not acceptable personal day absences.</td>
<td>No</td>
</tr>
<tr>
<td>Jury Duty</td>
<td>Court documentation must accompany the Clerkship Program Absence Request Form.</td>
<td>N/A</td>
<td>Jury duty, when obligated, is not considered a personal day absence.</td>
<td>Yes</td>
</tr>
<tr>
<td>Hospital-organized community events</td>
<td>Example: Special Olympic Physicals</td>
<td>N/A</td>
<td>These events would be considered part of the rotation and not a personal day absence.</td>
<td>No</td>
</tr>
<tr>
<td>Examination</td>
<td>COMLEX USA Level 2 CE/USMLE Step 2 CK/Canadian MCCEE</td>
<td>1 day</td>
<td>Students should be reporting to rotation before/after examination</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>COMAT/NBME shelf examinations</td>
<td>Time required to complete exam</td>
<td>Students should be reporting to rotation before/after examination</td>
<td>No</td>
</tr>
<tr>
<td>Conference/Research Presentation</td>
<td>Research presentation on core rotation</td>
<td>Travel and presentation time only</td>
<td>While on required/core rotations, no excused absences for any professional meeting will be allowed unless the student is presenting research in which they have participated. Required for request to Asst Dean for Clerkship Education: conference agenda, location, date of presentation, invitation, or confirmation of presentation by conference staff, proposed dates of absence.</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Conference or research presentation while on an elective rotation</td>
<td>3 days on a 4-week elective rotation</td>
<td>Student must submit Clerkship Program Excused Absence Request Form and copy of conference agenda to the Assistant Dean for Clerkship Education to attend one (1) professional meeting on a 4-week rotation. Students cannot miss rotation days for a conference during a 2-week elective rotation.</td>
<td>Yes</td>
</tr>
<tr>
<td>Prolonged Illness, Bereavement, Maternity Leave</td>
<td>Medical related absence or bereavement</td>
<td>TBD</td>
<td>Students-contact the Assistant Dean for Clerkship Education to discuss time off rotations</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Clerkship Program Excused Absence Request Forms*- Once appropriate approval signatures are obtained; forms should be maintained for your records in the event they are requested or required at a later date.
**POLICY FOR MEDICAL STUDENT SUPERVISION**

**Supervisors of the Medical Students in the Clinical Setting**

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The role of the student is to participate in patient care in ways that are appropriate for the student’s level of training and experience and to the clinical situation. The student’s clinical activities will be under the supervision of licensed physicians. This supervising physician may delegate the supervision of the medical student to a resident, fellow, or other qualified healthcare provider, however, the supervising physician retains full responsibility for the supervision of the medical students assigned to the clinical rotation and must ensure his/her designee(s) are prepared for their roles for supervision of medical students.

The physician supervisor and his/her designee(s) must be members in good standing in their facilities and must have a license appropriate to his/her specialty of practice and be supervising the medical student within that scope of practice as delineated by the credentialing body of the facility.

**Level of Supervision/Responsibilities**

Clinical supervision is designed to foster progressive responsibility as a student progresses through the curriculum, with the supervising physicians providing the medical student the opportunity to demonstrate progressive involvement in patient care. MSUCOM students will be expected to follow clinical policies of the facility regarding medical records and clinical care. Medical student participation in patient history/physical exam, critical data analysis, management, and procedures will include factors, but not limited to:

- The student’s demonstrated ability
- The student's level of education and experience
- The learning objectives of the clinical experience

First and second year medical students will be directly supervised at all times (supervising physician or designee present or immediately available.)

Third- and fourth-year medical students will be supervised at a level appropriate to the clinical situation and student’s level of experience. For some tasks, indirect supervision may be appropriate for some students. Direct supervision would be appropriate for advanced procedures.

Supervising physicians will provide medical students with timely and specific feedback on performance. The supervising physician will complete a mid-rotation evaluative discussion with the medical student. Supervising physicians will complete a summative evaluation and are encouraged to contact the course/clerkship director with any gaps in student performance.

Medical students with any concern regarding clinical, administrative, and educational or safety issues during his/her rotation will be encouraged to contact the supervising physician or clerkship/course director.
STATEMENT OF PROFESSIONALISM

Principles of professionalism are not rules that specify behaviors but guidelines that provide direction in identifying appropriate conduct. These principles include the safety and welfare of patients, competence in knowledge and skills, responsibility for consequences of actions, professional communication, confidentiality, and lifelong learning for maintenance of professional skills and judgments. Professionalism and professional ethics are terms that signify certain scholastic, interpersonal and behavioral expectations. Among the characteristics included in this context is the knowledge, competence, demeanor, attitude, appearance, mannerisms, integrity, and morals displayed by the student to faculty, peers, patients, and colleagues in other health care professions.

Students are expected to conduct themselves at all times in a professional manner and to exhibit characteristics of a professional student.

STUDENT RIGHTS AND RESPONSIBILITIES

Each individual student is responsible for their behavior and is expected to maintain standards of academic honesty. Students share the responsibility with faculty for creating an environment that supports academic honesty and principles of professionalism. Proper relationship between faculty and student are fundamental to the college's function and this should be built on mutual respect and understanding together with shared dedication to the education process. It is a fundamental belief that each student is worthy of trust and that each student has the right to live in an academic environment that is free of injustice caused by dishonesty. While students have an obligation to assist their fellow students in meeting the common goals of their education, students have an equal obligation to maintain the highest standards of personal integrity.

MSU Email

To facilitate communication from faculty and staff to students, students are required to have a functioning MSU email address. Students are responsible for checking their MSU email accounts daily and maintaining their MSU mailboxes so that messages can be received.

Forwarding MSU email to another email account or failure to check email are not valid excuses for missing a deadline or other requirements of the clinical education program.

Further, students must use secure email when working in a hospital, clinic, or other health care setting if discussion of patient information is involved. MSUNet (msu.edu) email is secure; many web-based email systems including Hotmail, Gmail and Yahoo are not.

FACULTY RESPONSIBILITIES

It is the responsibility of the college faculty to specify the limits of authorized aid (including but not limited to exams, study aids, internet resources and materials from senior students) in their syllabi, and it is the responsibility of students to honor and adhere to those limits. Course instructors shall inform students at the beginning of the semester of any special criteria of academic honesty pertinent to the class or course.
It is the responsibility of the clinical faculty to provide students with ongoing feedback during rotation upon request. Clinical faculty are generally recommended (though not required) to limit student assigned duty hours from 40 to 60 hours weekly (and not exceeding 60 hours). Both faculty and students are to be treated fairly and professionally to maintain a proper working relationship between trainer and trainee.

**COURSE GRADES**

**P/Pass** – means that credit is granted, and that the student achieved a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

**ET/Extended Grade** – means that a final grade (‘Pass’ or ‘No Grade’) cannot be determined due to one or more missing course requirements. The ET grade will be changed to a final grade once all the completed course requirements have been submitted to and processed by MSUCOM (either to the department or Clerkship Team). An 'ET' grade will NOT remain on a student's transcript.

**N/No Grade** – means that no credit is granted, and that the student did not achieve a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

**N Grade Policy**
Students who fail this rotation will have to repeat the entire rotation and fulfill all (clinical and academic) requirements.

**STUDENT EXPOSURE PROCEDURE**
A form has been developed by the University Physician to report incidents of exposure, e.g. needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and may be found on the Clerkship Medical Education page of the MSUCOM website here (https://com.msu.edu/current-students/clerkship-medical-education).

Contact Assistant Dean for Clerkship Education, Dr. Susan Enright, if exposure incident occurs: enright4@msu.edu.

**STUDENT VISA**
Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-RCPD, or on the web at www.rcpd.msu.edu Once a student’s eligibility for (clinical and/or testing) accommodation has been determined, the student may be issued a **Verified Individualized Services and Accommodations** (VISA) form. Students must present this VISA form to the Clerkship Team (COM.Clerkship@msu.edu), A-332 East Fee Hall, at the start of the semester in
which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after this date will be honored whenever possible.

If updates or modifications to an existing VISA form are made after the semester begins, it is the responsibility of the student to submit an updated version to the Clerkship Team if he or she intends to use the new accommodation going forward.
On this rotation you are required to encounter the below clinical presentations, if your rotation should not permit the following, you are required to gain the knowledge via modules/readings per syllabus. Place a checkmark where appropriate.

<table>
<thead>
<tr>
<th>Clinical Presentation</th>
<th>Experience via patient on rotation</th>
<th>Experience gained via Readings/modules (per syllabus)</th>
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</thead>
<tbody>
<tr>
<td>Stroke/ischemic/TIA</td>
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<tr>
<td>CNS hemorrhage/hematoma</td>
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<tr>
<td>Seizure/Epilepsy</td>
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<tr>
<td>CNS infections</td>
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<tr>
<td>CNS tumors</td>
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<tr>
<td>Myasthenia Gravis</td>
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<tr>
<td>Chronic peripheral neuropathy</td>
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<tr>
<td>Acute inflammatory demyelinating polyradiculoneuropathy</td>
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<tr>
<td>Amyotrophic lateral sclerosis</td>
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<tr>
<td>Acute encephalopathy</td>
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<td>Coma</td>
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<td>Dementia</td>
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<td>Headaches</td>
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<tr>
<td>Vertigo</td>
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<tr>
<td>Multiple Sclerosis</td>
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<td>Parkinson’s disease</td>
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<td>Essential tremor</td>
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<tr>
<td>Vision loss</td>
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<tr>
<td>Diplopia</td>
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</tbody>
</table>

Areas of Strength:

Areas of Improvement:

Student Name:______________________________

Rotation Dates:___________________________

Rotation Site:___________________________

Rotation Attending:_______________________

OMM – briefly describe how you used OMM on one patient during this rotation:

I participated in interprofessional collaboration (collaboration on patient care with healthcare workers of different professional backgrounds) on this rotation:

- Yes
- No

Wellness: An active process of becoming aware of and making choices toward a healthy and fulfilling life.

Have you set one personal wellness goal you would like to accomplish during this rotation?

- Yes
- No

Did you accomplish this goal by the end of the rotation?

- Not at all
- Somewhat
- Completely accomplished goal or exceeded
### SUMMARY OF GRADING REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Submission Method</th>
<th>Pass</th>
<th>Extended Grade</th>
<th>No Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neurology Final Examination</td>
<td><em>Desire2Learn</em></td>
<td>Minimum score of 60% earned by the due date on the 1st exam attempt</td>
<td>For students who do not achieve 60% on first attempt, one additional attempt will be granted within one week.</td>
<td>N-Grade will be issued if student fails to take the final exam by 4pm on the last Friday of the rotation</td>
</tr>
<tr>
<td>Student Experience Log</td>
<td><em>Desire2Learn</em></td>
<td>Log is submitted with 100% completion by the due date</td>
<td>Will be the conditional grade until all requirements of this rotation are met.</td>
<td>Failure to complete and upload within two weeks after the rotation ends.</td>
</tr>
<tr>
<td>Student Evaluation of Rotation</td>
<td></td>
<td>Evaluation form is submitted by the due date</td>
<td>Will be the conditional grade until all requirements of this rotation are met.</td>
<td>Failure to complete and upload within two weeks after the rotation ends.</td>
</tr>
<tr>
<td>Attending Evaluation of Student</td>
<td></td>
<td>The determination of a satisfactory attending evaluation is governed by the College's Policy for Retention, Promotion, and Graduation.</td>
<td>Will be the conditional grade until all requirements of this rotation are met.</td>
<td>Receives two (2) or more “Below Expectations” within the subcategory sections. Receives comments that indicate below expectations of performance.</td>
</tr>
<tr>
<td>Neurology Grand Round Attendance</td>
<td></td>
<td>Attend 75% of grand rounds presentations (only missing one,) while in session September – May of the academic year</td>
<td>N/A</td>
<td>Failure to attend 75% of grand round presentations.</td>
</tr>
</tbody>
</table>