



Edward Via College of Osteopathic Medicine

4th Year Clinical Rotation: Neurology
MED 8210: Medical Selective Clinical Rotation II

COURSE SYLLABUS

| Chair | Contact Information |
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I. Rotation Description

Students will learn to elicit a complete and focused neurological history, perform a complete musculoskeletal and neurological examination, evaluate and determine medical treatment of neurological problems and apply laboratory information and testing.

II. Rotation Objectives

- a. Describe the diagnosis and initial medical management for the following:
 1. CVA, TIA
 2. Seizure disorders
 3. Tremors
 4. Dementia and Cognitive Disorders
 5. Alzheimer's Disease
 6. Parkinson's Disease
 7. Cerebellar Disorders
 8. Peripheral Nerve Disorders
 9. Coma and Encephalopathy
 10. Meningitis and Encephalitis
 11. Cerebrovascular Disease
 12. Headache
 13. Bell's Palsy
 14. Altered Mental Status and the key diagnostic criteria for common causes:
 - i. Hyper and hypoglycemia
 - ii. Cerebrovascular accident
 - iii. Transient ischemic attack
 - iv. Meningitis
 - v. Encephalitis
 - vi. Seizures and Postictal state

- vii. Hypertensive encephalopathy
- viii. Vasculitis
- ix. Arrhythmias
- x. Overdose
- xi. Hypoxia or Hypercapnia causing altered mental status
- xii. Uremic and Wernicke encephalopathies
- xiii. Hypertensive encephalopathy
- xiv. Primary or metastatic tumor
- xv. Somatic dysfunction

III. Rotation Design

The neurology rotation occurs in the clinic setting with occasional hospital consult

IV. Credits

4 week course = 4 credit hours

V. Suggested Textbook and References

Goldman's Cecil Textbook of Medicine, 24th ed. 2012

- a. Chapter 403 – Approach to the Patient with Neurologic Disease
- b. Chapter 405 – Headaches and Other Head Pain
- c. Chapter 410 – The Epilepsies
- d. Chapter 411 – Coma, Vegetative State and Brain Death
- e. Chapter 414 – Ischemic Cerebrovascular Disease
- f. Chapter 415 – Hemorrhagic Cerebrovascular Disease
- g. Chapter 416 – Parkinsonism
- h. Chapter 418 – Amyotrophic Lateral Sclerosis and Other Motor Neuron Diseases
- i. Chapter 419 – Multiple Sclerosis and Demyelinating Conditions of the CNS
- j. Chapter 425 – Nutritional and Alcohol-Related Neurologic Disorders

VI. Course Grading/Requirements for Successful Completion of the Neurology Rotation

- a. Attendance according to VCOM and preceptor requirements
- b. Preceptor Evaluation at end-of-rotation

Grading policies, academic progress, and graduation requirements may be found in the *College Catalog and Student Handbook* at: <http://www.vcom.vt.edu/catalog/>.

VII. Clinical Performance Objectives

The end-of-rotation evaluation for this rotation will be completed by your preceptor and is based on clinical core competencies. These core competencies reflect student performance in 6 key areas: communication, problem solving, clinical skills, medical knowledge, osteopathic medicine and professional and ethical considerations. Your end-of-rotation evaluation from your preceptor will be based directly on your performance in these 6 core competencies as described below.

- a. Communication - the student should demonstrate the following clinical communication skills:
 - 1. Effective listening to patient, family, peers, and healthcare team
 - 2. Demonstrates compassion and respect in patient communications

3. Effective investigation of chief complaint, medical and psychosocial history specific to the rotation
 4. Considers whole patient: social, spiritual & cultural concerns
 5. Efficiently prioritizes essential from non-essential information
 6. Assures patient understands instructions, consents & medications
 7. Presents cases in an accurate, concise, well organized manner
- b. Problem Solving – the student should demonstrate the following problem solving skills:
1. Identify important questions and separate data in organized fashion organizing positives & negatives
 2. Discern major from minor patient problems
 3. Formulate a differential while identifying the most common diagnoses
 4. Identify indications for & apply findings from the most common radiographic and diagnostic tests
 5. Identify correct management plan considering contraindications & interactions
- c. Clinical Skills - the student should demonstrate the following problem solving skills:
1. Assesses vital signs & triage patient according to degree of illness
 2. Perform good auscultatory, palpatory & visual skills
 3. Perform a thorough physical exam pertinent to the rotation
- d. Osteopathic Manipulative Medicine - the student should demonstrate the following skills in regards to osteopathic manipulative medicine:
1. Apply osteopathic manipulative medicine successfully when appropriate
 2. Perform and document a thorough musculoskeletal exam
 3. Utilize palpatory skills to accurately discern physical changes that occur with various clinical disorders
 4. Apply osteopathic manipulative treatments successfully
- e. Medical Knowledge – the student should demonstrate the following in regards to medical knowledge:
1. Identify & correlate anatomy, pathology and pathophysiology related to most disease processes
 2. Demonstrate characteristics of a self-motivated learner including demonstrating interest and enthusiasm about patient cases and research of the literature
 3. Are thorough & knowledgeable in researching evidence based literature
 4. Actively seek feedback from preceptor on areas for improvement
 5. Correlate symptoms & signs with most common diseases
- f. Professional and Ethical Behaviors - the student should demonstrate the following professional and ethical behaviors and skills:
1. Is dutiful, arrives on time & stays until all tasks are complete
 2. Consistently follows through on patient care responsibilities
 3. Accepts & readily responds to feedback, is not resistant to advice
 4. Assures professionalism in relationships with patients, staff, & peers
 5. Displays integrity & honesty in medical ability and documentation
 6. Acknowledges errors, seeks to correct errors appropriately
 7. Is well prepared for and seeks to provide high quality patient care

8. Identifies the importance to care for underserved populations in a non-judgmental & altruistic manner

g. Osteopathic Manipulative Medicine Components

Students must be familiar with the OMM didactic and workshop requirements for their OMS-4 year as described in the Osteopathic Manipulative Medicine website.