



NEUROLOGY

Goal: The goal of the Neurology rotation is to provide learning opportunities that will enable students to develop or refine the knowledge, skills, and attitudes necessary to:

1. Elicit a complete and focused osteopathic neurological and musculoskeletal history.
2. Perform a complete osteopathic neurological examination.
3. Evaluate and determine medical and osteopathic manual treatment of neurological problems.
4. Evaluate and determine the osteopathic manual techniques in the treatment of neurological and neuro-musculoskeletal problems.
5. Apply laboratory and diagnostic information and testing to specific neurological problems.

Objectives: Upon completion of this rotation, students will demonstrate the ability to:

1. Elicit a history.
2. Perform an osteopathic physical examination to identify signs and symptoms of, clinically evaluate, and order the appropriate diagnostic tests, and describe the principles of medical and osteopathic manual medicine management for the following conditions:
 - a. CVA, TIA.
 - b. Altered State of Consciousness.
 - c. Seizure Disorders.
 - d. Tremors.
 - e. Dementia and Cognitive Disorders.
 - f. Alzheimer's Disease.
 - g. Parkinson's Disorder.
 - h. Cerebellar Disorders.
 - i. Peripheral Nerve Disorders.
 - j. Coma and Encephalopathy.
 - k. Meningitis and Encephalitis.
 - l. Cerebrovascular Disease.
 - m. Headache.
3. Bells Palsy.
4. Identify the common causes of altered mental status. Know the evaluation of a patient with altered mental status. Identify the key diagnostic criteria for each of the following causes below:
 - a. Hyper and hypoglycemia.
 - b. Cerebrovascular accident.
 - c. Transient ischemic attack.

- b. Meningitis.
- c. Encephalitis.
- d. Seizures & Postictal state.
- e. Hypertensive encephalopathy.
- f. Vasculitis.
- g. Arrhythmias.
- h. Overdose.
- i. Hypoxia or Hypercapnia causing altered mental status.
- j. Uremic and Wernicke encephalopathies.
- k. Hypertensive encephalopathy.
- l. Primary or metastatic tumor.
- m. Somatic dysfunction.