

# Care of Medical and Surgical Patients In the Clinical Setting

## *The Neurological System*

Contact Hours: 6.75 CE



## *Introduction*

One of the most difficult systems to understand is broken down into direct clinical application in this session. Various neurological disease pathologies, assessment parameters, and treatment modalities are covered. An in-depth discussion of neuro checks and their use in the clinical setting is included to facilitate recognition of changes in function. The pathophysiologic conditions covered include:

- Headaches
- Seizure disorders
- CNS infections
- Spinal cord injury
- Multiple sclerosis
- Status epilepticus
- Brain tumors
- Transient ischemic attack
- Cerebrovascular accident
- Myasthenia gravis
- Parkinson's disease
- Alzheimer's disease

## *Objectives*

1. Verbalize an understanding of the anatomy and physiology of the nervous system.
2. Discuss the components of the neurological assessment.
3. Describe the etiology, pathophysiology, clinical manifestations, and anticipated treatment of patients experiencing headaches and seizures.
4. Discuss the various types of central nervous system infections and spinal trauma.
5. Verbalize an understanding of the clinical manifestations and treatment of multiple sclerosis and brain tumors.
6. Differentiate the clinical manifestations and treatment options in patients experiencing transient ischemic attacks and cerebrovascular accidents.
7. Discuss the pathophysiology, clinical manifestations and treatment options in patients with myasthenia gravis, Alzheimer's disease, Parkinson's disease, and Guillian Barre'.

*Recent seminar participants had this to say about “The Neurological System”.*



*“Awesome class! The class discussions and case study reviews were especially good since the neurologic system is so confusing.”*

*“All the Alzheimer’s patients are going to be better understood now.”*

*“Neuro assessment has always been difficult for me. This has really helped and improved my understanding of neuro checks.”*



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