

Course Description

This course provides healthcare professionals with a foundation of correlative neuro anatomy and physiology as it pertains to the neurological patient and his or her assessment. We will provide an overview of the pathophysiological processes and complications encountered in the neurologic patient. Clinical assessment findings will be discussed, as well as various etiologies that contribute to these conditions. An in-depth review of traumatic brain injuries, strokes and brain tumors will be provided, as well as the treatment modalities for each. The focus is on current management according to evidence-based guidelines.

Program Learning Outcomes

This program prepares the learner to:

- Correlate the neurologic patient assessment to anatomy and physiology.
- List the evidence-based management strategies for the discussed neurological injuries and diseases.

Agenda

Sign-in begins at 7:30 am. Each day includes a one-hour lunch (on your own), as well as a morning and afternoon break of 15 minutes each. The order of lectures presented and break times may vary according to speaker preference.

Day 1, 8:00 am to 4:30 pm

- 0800 **Anatomy and Physiology**
Meninges | CSF Productions and Circulation | Cortical Lobes and Subcortical Areas of the Brain | Brainstem
- 0930 **Break**
- 0945 **Neurological Assessment**
Level of Consciousness | Motor Responses | Pupillary Assessment | Cranial Nerve Assessment | Brainstem Reflexes | Comatose Patient
- 1100 **Brain Tumors**
Classification | Prognosis of Common Tumors | Presentation of Supra- and Infratentorial Tumors | Intraoperative Management with Debulking, Radiation Beads and Chemotherapy Wafers
- 1200 **Lunch**
- 1300 **Traumatic Brain Injury**
TBI Mechanism of Injury | Skull Fractures | Epidural and Subdural | Primary and Secondary Injury | Anoxic Brain Injury | Management of Elevated Intracranial Pressure
- 1500 **Break**
- 1515 **Spinal Cord Mechanism of Injury**
Incomplete Cord Injuries | Clearing C-spines | Emergency Management | Spinal Shock, Neurogenic Shock and Autonomic Dysreflexia
- 1630 **Adjourn**

Agenda

Day 2, 8:00 am to 4:00 pm

- 0800 **Stroke Management**
Risk Factors | Stroke Physiology and Symptoms | Primary and Secondary Stroke | Fibrinolytic Therapy and Management Issues
- 0930 **Break**
- 0945 **Cerebral Aneurysms**
Cerebral Aneurysms, Symptoms, Risk Factors, Complications and Management | Classification of Severity of SAH | Management of Aneurysm, Complications and Vasospasm Management Issues
- 1100 **Infectious Disease in the Neurological Patient**
Bacterial Meningitis | Viral Meningitis | Neurocystercosis Abscess | Encephalitis
- 1200 **Lunch**
- 1300 **Seizures**
Seizure Classification | Risk Factors | Pharmacologic Management | Assessment | Treatment of Status Epilepticus
- 1430 **Break**
- 1445 **Common Fluid and Electrolyte Disorders**
Diabetes Insipidus | SIADH | Cerebral Salt Wasting
- 1600 **Adjourn**

Accreditation

RN/LPN/LVN/Other: 13.5 Contact Hours

CRNA: 13.5 CE Credits

MED-ED, Inc is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

MED-ED, Inc. is also approved by the American Association of Nurse Anesthetists (**AANA**).

MED-ED, Inc. is an approved provider by the following State Boards of Nursing: **Florida**/FBN 50-1286, **Iowa**/296, **California** #CEP10453.

If your profession is not listed, we suggest contacting your board to determine your continuing education requirements and ask about reciprocal approval. Many boards will approve this seminar based on the accreditation of the boards listed here.



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