### Goal

1. Evaluation of Coma

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Competency</th>
<th>Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 - Define Coma</td>
<td>None</td>
<td>Program Director, EPC info</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>1.2 - Obtain a pertinent history from collateral historians</td>
<td>None</td>
<td>More</td>
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<tr>
<td>1.3 - Examine respiration, eye movements, motor function and reflexes, brainstem reflexes to determine if coma is structural or non-structural (localize the lesion if structural)</td>
<td>None</td>
<td>More</td>
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<td>1.4 - Describe the urgent evaluation and management of coma</td>
<td>None</td>
<td>More</td>
</tr>
</tbody>
</table>
Objectives

1.5 - Describe the urgent evaluation and management of status epilepticus

Competency
None | More

Resources
Status epilepticus guideline

Objectives

1.6 - Understand the definition and approach to the determination of Brain Death.

Competency
None | More

Resources
Brain Death article

Goal

2. Evaluation of Dementia

Objectives

2.1 - Obtain the pertinent history from the patient and collateral historians

2.1a - Distinguish pseudodementia from true dementia

2.1b - Determine the presence of medical and environmental risk factors for dementia

Competency
None | More

Resources

Objectives

2.2 - Perform a mental status examination

Competency
None | More

Resources

Objectives

2.3 - Perform a complete neurologic examination

Competency
None | More
## Objectives

### 2.4 - Use the appropriate laboratory and neuro-imaging to rule out reversible causes of dementia

**Competency**
None | [More](#)

**Resources**

### 2.5 - Know the available therapies for Alzheimer’s disease and understand the mechanism of action of these medications

**Competency**
None | [More](#)

**Resources**

## Goal

### 3. Evaluation of Cerebrovascular Disease

#### Objectives

**3.1 - Obtain an accurate history of the event to enable localization of the lesion**

**Competency**
None | [More](#)

**Resources**

**3.2 - Be able to demonstrate focal neurologic findings in a patient with stroke and use these to localize the lesion**

**Competency**
None | [More](#)

**Resources**

**3.3 - Understand the basic mechanisms of stroke**

**Competency**
None | [More](#)

**Resources**

[Dr. Reda’s CV Disease slides](#)
Objectives

3.4 - Use appropriate testing to confirm the mechanism of stroke

Competency
None | More

Resources

Objectives

3.5 - Identify common risk factors and mechanisms of stroke in young patients as well as elderly patients

Competency
None | More

Resources

Objectives

3.6 - Be able to counsel a patient in the use of anti-coagulant and anti-platelet agents

Competency
None | More

Resources

Objectives

3.7 - Know the indications and contra-indications for the use of tPA

Competency
None | More

Resources

Goal

4. Evaluation of Headache

Objectives

4.1 - Obtain an accurate history and be able to differentiate benign (primary) headache from secondary headache due to elevated intracranial pressure, subarachnoid hemorrhage, CNS infection, and vasculitis

Competency
None | More

Resources

Dr. Moseley's Headache PPT
HA powerpoint
Objectives

4.2 - Recognize the common features of migraine, tension headache, cluster headache, and trigeminal neuralgia

Competency
None | More

Resources

Objectives

4.3 - Describe common modes of treatment for migraine headache

Competency
None | More

Resources

Objectives

4.4 - Describe the treatments available for trigeminal neuralgia

Competency
None | More

Resources

Goal

5. Evaluation of Spine and Limb Pain

Objectives

5.1 - Obtain an accurate history of the pain including temporal profile, inciting events, pain location and radiation, aggravating and alleviating factors, and associated symptoms

Competency
None | More

Resources

Objectives

5.2 - Discern historical features that suggest neurologic involvement

Competency
None | More

Resources
Objectives

5.3 - Identify common non-neurologic causes of spine and limb pain

Competency

None | More

Resources

Objectives

5.4 - Recognize neurologic causes of spine and limb pain requiring emergent evaluation and treatment (ie epidural cord compression)

Competency

None | More

Resources

Objectives

5.5 - Understand the anatomy and clinical picture of disc herniation

Competency

None | More

Resources

Objectives

5.6 - Identify situations in which surgery should be considered as treatment for radiculopathy (electively or emergently)

Competency

None | More

Resources

Goal

6. Evaluation of Peripheral Neuropathy

Objectives

6.1 - Elicit an accurate history of symptoms

Competency

None | More

Resources

Dr. Reda's PN slides
6.2 - Perform a neurologic examination

Objectives

6.3 - Use the history and examination to determine the category of neuropathy (ie sensorineural polyneuropathy, mononeuropathy, small fiber neuropathy, etc)

Objectives

6.4 - Understand the role of EMG and other laboratory testing in the diagnosis of neuropathy

Objectives

6.5 - Recognize the potentially life-threatening neuropathies and describe the treatment of Guillain-Barre Syndrome

Goal

7. Evaluation of Movement Disorders

Objectives

7.1 - Recognize the historical features and neurological signs of Parkinsonism, Essential Tremor, and Restless Legs Syndrome

Objectives

7.2 - Demonstrate the typical neurologic findings in a patient with Parkinson's Disease
Objectives

7.3 - Distinguish a rest tremor from and an action tremor and intention tremor

Objectives

7.4 - Identify medications used in the treatment of Parkinson's disease, Essential Tremor, and Restless Legs Syndrome

Goal

8. Evaluation of Demyelinating Disease

Objectives

8.1 - Obtain an accurate history and recognize the common symptoms of multiple sclerosis

Objectives

8.2 - Be able to explain to a patient the basic pathophysiology of MS

Objectives

8.3 - Recognize the most common physical findings seen in a patient with MS
Objectives
8.4 - Understand the role of neuro-imaging and spinal fluid examination to confirm the diagnosis of MS

Objectives
8.5 - Identify the available treatments for an acute attack of demyelinating disease and disease modifying therapy for patients with MS

Goal
9. Evaluation of Dizziness and Vertigo

Objectives
9.1 - Be able to elicit an accurate history of the dizzy patient and differentiate a vestibular disturbance from presyncope, ataxia, and non-specific "wooziness"

Objectives
9.2 - Recognize the typical history of benign paroxysmal positional vertigo (BPPV)

Objectives
9.3 - Understand the utility of the Dix-Hallpike maneuver and canalith repositioning the treatment of BPPV
9.4 - Differentiate a peripheral vestibular disturbance from a central nervous system disorder

**Goal**

10. Lumbar Puncture

**Objectives**

10.1 - Understand the appropriate indications and contraindications for performance of a lumbar puncture

**Objectives**

10.2 - Be able to counsel the patient concerning the risks and benefits of the procedure

**Objectives**

10.3 - Understand the management of post-LP headache

**Objectives**

10.4 - Successfully perform a lumbar puncture under the supervision of the spinal nurse, consultant, or resident

**Goal**

11. Evaluation of Seizures
Objectives

11.1 - Be able to differentiate seizures from common mimickers

Competency
None | More

Resources

Objectives

11.2 - Be able to differentiate between complex partial, generalized tonic clonic, and absence seizures based on history/examination

Competency
None | More

Resources

Objectives

11.3 - Identify common medications used to treat partial, generalized tonic clonic, and absence seizures

Competency
None | More

Resources

Objectives

11.4 - Identify other management options when seizure medications fail

Competency
None | More

Resources

Goal

12. Localization in Neurology

Objectives

1.1 - Definition

Competency
None | More

Resources

Neurologic Localization-Dr. Wicklund