

**Covenant School of Nursing
Instructional Module 4 Learning Guide
Topic: Neurological Disorders**

Learning Goals/Outcomes	
<p>Upon completion of this lesson, you will be able to:</p> <ul style="list-style-type: none"> • Compare and contrast the etiology, clinical manifestations, collaborative care, and nursing management of patients with neurological diseases. • Implement primary care strategies for the clinical manifestations of seizures, Parkinson's disease, dementia, delirium, Alzheimer's disease, multiple sclerosis, amyotrophic lateral sclerosis, and stroke. • Explain mechanisms that affect cerebral blood flow. • Compare and contrast the cause and effect of ischemic and hemorrhagic strokes. • Specify the etiology and nursing management of patients with degenerative disc disease and nerve root compression. • Classify medications and side effects of medications administered for chronic neurologic disorders. 	
Pre-Class Preparation	
<p>Required:</p> <ul style="list-style-type: none"> • Read Lewis, et.al, (2019). <i>Medical Surgical nursing</i> (11th ed.) Chapter 55: Assessment, pages 1279-1298 & Table 55.9 Radiologic Studies & 55.10 Electrographic Studies Chapter 57: Stroke Chapter 58: Seizure Disorders, Multiple Sclerosis, Parkinson's Disease, & Amyotrophic Lateral Sclerosis Chapter 59: Dementia, Delirium, and Alzheimer's Disease Chapter 63: Low Back Pain and Degenerative Disc Disease • Read Burchum & Rosenthal, (2019). <i>Lehne's Pharmacology for Nursing Care</i> (10th ed.) Selected reading from Chapter 21, 22, 23, 24, and 25 • Review PowerPoint slides <p>Additional Resources:</p> <ul style="list-style-type: none"> • HESI Material: Refer to HESI exam 1 material • Board Vitals 	
Learning Activities	
<p>Classroom Activities:</p> <ul style="list-style-type: none"> • Lecture/voiceover PowerPoint • Case Studies • Video Clips • Group Learning Activities • Audience Participation Questions • Muddy Waters <p>Laboratory/Clinical Activities:</p> <ul style="list-style-type: none"> • Integrate concepts of neurological disease processes and care in the clinical setting • Integrate concepts of medication administration for chronic neurologic disorders into the clinical setting. • Collaborate with other professions in the care of assigned patients. <p>Out of Class/Computer Assisted Activities:</p> <ul style="list-style-type: none"> • HESI Case Studies and Practice Tests: Stroke and Seizure Disorder • Unit Quiz 	
Evaluation Methods	
<ul style="list-style-type: none"> • Unit Exam • Classroom participation and discussion • HESI Adaptive Quizzing • HESI Fundamentals Examination, proctored 	

Texas DECS	QSEN Competencies
-------------------	--------------------------

<p>Knowledge- IA2, IIA1a,b, IIA2a,b, IIA3, IIA4, IIB2, IIB4, IIB5, IIB6, IIB7, IIB8, IIB8, IIB9, IIB11, IIB12, IIC1a, IIC2ab, IIC3, IIC4ab, IIC5, IIC6, IIC7, IIC8, IID1abcd, IID2, IID3a, IID4abc, IID5a, IIE1ab, IIE2, IIE3ab, IIE4ab, IIE5, IIE6ab, IIE11ab, IIE12, IIF1, IIF2, IIF3, IIG1b, IIG2ab, IIG3ab, IIIA1, IIIA4, IIIA1ab</p> <p>Clinical Judgments and Behaviors- IA1, IA2, IA3ab, IB2ab, IB3abc, IB4abc, IB5ac, IB6abc, IB7, IB8, IC2, IC3abc, IC4, IC5, IC6ab, IIA1, IIA2ab, IIA3, IIA4, IIB1, IIB2, IIB3ab, IIB4, IIB5, IIB6, IIB7, IIB8, IIB9, IIC1, IIC2, IIC3ab, IIC4, IIC5, IIC6, IIC7, IID2abcd, IID3abc, IID4, IIE1, IIE2abc, IIE3ab, IIE4, IIE5ab, IIE6abcd, IIE7abc, IIE8, IIE9, IIE10, IIE11, IIE12ab, IIF1abc, IIF2ab, IIF3ab, IIF5ab, IIG1, IIG2ab, IIG3, IIG4, IIG5ab, IIG7, IIIA2, IIIA3, IIIA4, IIIA5a, IIIB1, IIIB2, IIIB3abc, IIIB4, IIIB5, IIIB6, IIIB7, IIIB8, IIIB9, IIIC1, IIIC2ab, IIID1, IIID2, IIID3, IIIE1, IIIE3, IIIF1, IVA1, IVA2ab, IVB1ab, IVB2, IVB3abc, IVB5ab, IVC1abc, IVC2abc, IVC3ab, IVD1ab, IVD2, IVD3ab, IVD4, IVD5, IVE1abc, IVE2abc, IVE4</p>	<p>Patient Centered Care Teamwork and Collaboration Evidence-based Practice Quality Improvement Safety</p>
<p>IM Student Learning Outcomes</p>	<p>NCLEX Test Plan</p>
<p>Assessment and Intervention, Communication, Critical Thinking, Human Caring and Relationship, Management, Leadership, Teaching, Knowledge Integration</p>	<p>Safe & Effective Care Environment: <i>Management of Care</i> Health Promotion & Maintenance: <i>Safety and Infection Control</i> Psychosocial Integrity: <i>Behavioral Interventions, Coping Mechanisms, Sensory/Perceptual Alterations, Support Systems, Therapeutic Communication</i> Physiological Integrity: <i>Basic Care and Comfort, Pharmacological and Parenteral Therapies, Reduction of Risk Potential, Physiological Adaptation</i> Physiological Integrity: <i>Basic Care & Comfort, Non-Pharmacological Comfort Interventions, Pharmacological & Parenteral Therapies, Reduction of Risk Potential</i></p>
<p>Concepts</p>	<p>Faculty</p>
<p>Cognition, Comfort, Intracranial Regulation, Functional Ability,</p>	<p>Sheryll Mae M. Coulombe, MSN, RN-BC</p>
<p>Date originated: 1/19/16</p>	<p>Revision Dates: 1/21/16, 7/25/16, 8/17/17, 2/5/18, 8/22/18, 10/3/19, 9/1/20</p>

Mod 4 Learning Guide Topic: Neurological Diseases