

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

Learning Goals/Outcomes

Upon completion of this lesson, you will be able to:

- 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

Required:

- Read Lewis, et.al, (2017). *Medical Surgical nursing* (10th ed.)
Chapter 55: Assessment, pages 1301-1304 & Table 55-7 Diagnostic 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). *Lehne's Pharmacology for Nursing Care* (10th ed.)
Selected reading from Chapter 21, 22, 23, 24, and 25
- Review PowerPoint slides

Additional Resources:

- HESI Material: Refer to "HESI Across the Module" for Week 4
- Board Vitals

Learning Activities

Classroom Activities:

- Lecture
- Case Studies
- Video Clips
- Group Learning Activities
- Audience Participation Questions

Laboratory/Clinical Activities:

- 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.

Out of Class/Computer Assisted Activities:

- HESI: Pharmacology
- HESI Case Studies and Practice Tests: Stroke and Seizure Disorder
- HESI Pharmacology Quiz

Evaluation Methods

- Unit Exam
- Classroom participation and discussion
- Collaborative Learning
- 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, 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>
IM Student Learning Outcomes	NCLEX Test Plan
<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>
Concepts	Faculty
<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</p>

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