

Covenant School of Nursing
LVN-RN Course Learning Guide
Topic: Advanced Medical-Surgical

Learning Goals/Outcomes

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

- Interpret arterial blood gas (ABG) values and implement nursing interventions accordingly.
- Identify characteristics of respiratory failure, pneumonia, COPD, and tuberculosis and identify nursing interventions for each.
- Describe nursing care interventions used to promote oxygenation.
- Implement and describe care and comfort for the mechanically ventilated patient.
- Prioritize nursing interventions in the management of the physiologic and psychosocial needs of the burn patient.
- Recognize signs and symptoms of acute coronary syndrome, myocardial infarction, congestive failure, cardiogenic shock, and aortic aneurysm and provide effective nursing care.
- Interpret and assess abnormal conduction of the heart and intervene appropriately.
- Differentiate between types of pacemaker settings and their use.
- Prioritize and implement primary nursing interventions for the clinical manifestations of Disseminated Intravascular Coagulopathy and Heparin Induced Thrombocytopenia and analyze lab values of these patients.
- Recognize signs & symptoms and implement primary care strategies for the manifestations of hypovolemic, distributive (sepsis and anaphylaxis), and obstructive (Tamponade) shock.
- Assess, recognize signs & symptoms, and Intervene for the patient experiencing increased intracranial pressure, intracranial bleed, & traumatic brain injury.
- Recognize signs & symptoms of neurogenic shock/autonomic dysreflexia and intervene appropriately.
- Provide nursing care for patients with spinal cord injury.
- Recognize and implement care strategies for patients with liver dysfunction.
- Recognize and implement care strategies for patients at the end of life.

Pre-Class Preparation

Required:

- See HESI & Other Assignments Sheet Week 5 for resources related to ABG, EKG, TBI, Burns
- Reading: Saunders Comprehensive Review for the NCLEX-RN Examination 8th Ed.
 - ABGs interpretation and causes, Respiratory (Respiratory Failure, Pneumonia, COPD, Bronchitis, Emphysema, & Tuberculosis), Mechanical Ventilation, Aortic aneurysm, arterial line, blood transfusion, Burns, Cardiac Tamponade, Cardiogenic shock, Care of the Cardiac Cath patient, Care of the MI patient, Chest tube management, Code management - roles of the team, Coronary artery bypass graft surgery, Disseminated intravascular coagulation (DIC), EKG, Heparin induced thrombocytopenia (HIT), Intracranial bleed, Pacemakers, Preload & afterload, Spinal cord injury, Traumatic brain injury.

Additional Resources:

- <https://www.youtube.com/watch?v=Gmh01S0msfY> (DIC) 6 minutes
- <https://www.youtube.com/watch?v=cybqmtsqqvGs> (Understanding Shock – detailed but good) 27 minutes
- <https://www.youtube.com/watch?v=6Zd6IEC-eKs>(Anatomy of the Brain)
- <https://www.youtube.com/watch?v=ewjeuJIY2To> (Josiah's Story)
- <https://www.youtube.com/watch?v=YI66VLKckso> (Intracranial pressure)
- <https://www.youtube.com/watch?v=fyYT8wozccw> (Cerebral Perfusion Pressure)
- <https://www.youtube.com/watch?v=zxp1-okVig> (Anatomy of the Spinal Cord and How it Works)
- <https://www.youtube.com/watch?v=dkvOosC4ZLA> (Introduction to the Ascending and Descending Tracts of the Spinal Cord)

Videos Retrieved 10/31/2022

Learning Activities	
Classroom Activities: <ul style="list-style-type: none"> Lecture Discussion Case scenarios Laboratory/Clinical: <ul style="list-style-type: none"> Advanced Medical Surgical SIM in laboratory setting Competency Performance Exam Online:	
Evaluation Methods	
<ul style="list-style-type: none"> Discussion Case studies Collaborative learning HESI Module Completion Exam 	
Texas DECs	QSEN Competencies
Knowledge II.A.1.a; 2a, b.,3; II.B.2, 4, 5, 6, 7, 8, 11, 12; II.C, 3, 4b, 5, 6, 7, 8; II.D. 1a, 1b, 1c, 3b, 4c,5a; II.E, 1a, 1b, 2, 4a,4b, 5, 6b, 12, 13; II.F, 2; IIG, 2a, 2b, 3a, 3b IV.C, 1, 3, 5, 8, Clinical Judgments and Behaviors I.A.1, 2, 3a, 3b, B.2.a, 2.b, 3.a, 3.b, 3.c, 4.a, 4.b, 5.a, 5.c, 6.a, 6.b, 6.c; II.A, 1, 2.a, 2.b, 3, 4; II.B, 1, 2, 3.a, 3.b, 4, 5, 6, 7, 8, 9, II.C.1, 2, 3.a, 4, 5, 6, 7; II.D.1, 2.a, 2.c, 2.d, ,3.a, 3.b,3.c; II.E.1, 2.a, 2.b, 2.c, 3.b, 4, 5.a, 6.a, 6.c, 6.d, 9, 10, 11, 12.b; II.F.1.a, 1.b, 1.c, 2.a, 2.b,5.a, 5.b; II.G.1,2a, 2b, 3, 4, 5a, 5b, 6, 7; II.H.6; III.A., 2, 3, 4, 5a; III.B.1, 2, 3.a, 3.b, 3.c, 4, 5, 8, 9; III.C.2.a, 2.b, III.D.1, 2, 3; III.E.1, 3; III.F.1; IV.A.1, IV.B.1.a, 2; IV.C.1.a, 2.b; IV.D.1.b, 3.b, IV.E.1.b, 1.c, 2.b, 2.c, 4;	Patient Center Care, Evidence Based Practice, Safety
IM Student Learning Outcomes	NCLEX Test Plan
1/1-2,1/5,3/1-3,3/5-7,4/1-4/8,7/1-8	MOC (continuity of care, establishing priorities);S&IC (home safety);HP&P (health promotion/disease prevention, health screening, high risk behaviors, lifestyle choices, self-care, techniques of physical assessment); Psych int. (stress management, therapeutic communication); BC&C (nutrition); RRP (diag. tests, lab values, potential alt. in body systems, potential for complications of diag. test/treatments/procedures, system specific assessments; Phys. Adaption (alterations in body systems, hemodynamics, illness management)
Concepts	Faculty
Acid-Base, Clinical Judgement, Cellular Regulation, Clotting, Comfort, Diversity, Elimination, Fluid & Electrolytes, Gas Exchange, Immunity, Metabolism, Nutrition, Perfusion, Sensory/Perception, Tissue Integrity, Coping, Clinical Judgement, Patient Education, Evidence-based practice, Patient-centered Care	D. Kilpatrick MSN, RN, CNE, CCRN-K E. McWilliams MSN, RN
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