

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:

Mrs. Wolfe

- Interpret arterial blood gas (ABG) values and implement nursing interventions accordingly. Recognize signs and symptoms of acute coronary syndrome, myocardial infarction and aortic aneurysm and provide effective nursing care
- Analyze effective/ineffective gas exchange of the patient on mechanical ventilation support. Implement care and comfort for the ventilated patient.
- Prioritize nursing interventions in the management of the physiologic and psychosocial needs of the burn patient throughout the three burn phases.

Mrs. McWilliams

- Interpret and assess normal/abnormal conduction of the heart and intervene when appropriate.
- Analyze waves, complexes, segments, and intervals of an ECG and where they occur in the heart.
- Differentiate between types of pacemakers, their use, and pacemaker rhythms.
- Prioritize and implement primary nursing interventions for the clinical manifestations of Disseminated Intravascular Coagulopathy and Heparin Induced Thrombocytopenia.
- Integrate concepts of lab values in the care of the patient with DIC and/or HIT.
- Implement primary care strategies for the clinical manifestations of hypovolemic, distributive and obstructive shock.
- Provide care for the patient experiencing increased intracranial pressure, traumatic brain injury, or intracranial bleed.
- Integrate concepts of neurogenic shock/autonomic dysreflexia into care provided the patient with a spinal cord injury.

Pre-Class Preparation

Required:

Mrs. Wolfe

- Comprehensive Review for NCLEX-RN, 2nd Ed, Ch. 28 Respiratory Tubes and Closed Chest Drainage Systems, Ch. 33 Blood transfusion reaction, Ch. 37 Respiratory medications, Ch. 38 Cardiovascular medications, Ch. 55 Acid-Base Imbalances, Ch. 56 Respiratory disorders, Ch. 57 Cardiovascular disorders, Chapter 63 Integumentary Disorders (Disease processes/topics to focus on: Respiratory acidosis, Respiratory alkalosis, Metabolic acidosis, Metabolic alkalosis, Mechanical ventilation, pneumothorax/hemothorax, chest tubes, pulmonary embolism, myocardial infarction, acute coronary syndrome, aortic aneurysm, Burn injury)

Mrs. McWilliams

- Comprehensive Review for NCLEX-RN, 2nd Ed, Ch. 33 Blood and Blood Component Therapy, Ch. 39 Neurological and Musculoskeletal Medications, Ch. 58 Neurological Disorders, Chapter 65 Hematological Disorders, (Disease processes/topics to focus on: DIC, HIT, Cardiogenic, Hypovolemic, Distributive, and Obstructive Shock, increased intracranial pressure, traumatic brain injury, intracranial bleed, neurogenic shock/autonomic dysreflexia with spinal cord injury, dysrhythmias, pacemakers)
- Adult Medical-Surgical Nursing
- Pharmacology for Nursing

Additional Resources:

- <https://www.youtube.com/watch?v=Gmh01S0msfY> (DIC)
- <https://www.youtube.com/watch?v=Eipht99mh0g> (Understanding Shock)
- <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=Yl66VLKckso> (Intracranial pressure)
- <https://www.youtube.com/watch?v=fyYT8wozccw> (Cerebral Perfusion Pressure)
- <https://www.youtube.com/watch?v=zxpb1-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)

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 skills in laboratory setting Competency Performance Exam Online: <ul style="list-style-type: none"> ABG Analysis Video (See HESI & Other Assignment document in LMS under Lessons) Code Blue Roles (See HESI & Other Assignment document in LMS under Lessons) Burns (See HESI & Other Assignment document in LMS under Lessons) Watch EKG Videos: (See HESI & Other Assignment document in LMS under Lessons) 12 medications from LVN-RN Advanced Medical-Surgical Medication List – submit to instructor’s LMS dropbox 	
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;	PCC, EBP, 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	J. Wolfe MSN, RN, CNE E. McWilliams MSN, RN
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