

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.
- 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 mechanically ventilated patient.
- Prioritize nursing interventions in the management of the physiologic and psychosocial needs of the burn patient.
- 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.
- Analyze lab values of the patient with DIC and/or HIT.
- Recognize signs & symptoms and implement primary care strategies for the manifestations of hypovolemic, distributive and obstructive 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 the patient with a spinal cord injury.

Pre-Class Preparation

Required:

- See HESI & Other Assignments Sheet
- Reading: Saunders Comprehensive Review for the NCLEX-RN Examination 8th Ed.
 - ABGs interpretation and causes, 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, Mechanical Ventilation, Pacemakers, Preload & afterload, Spinal cord injury, Traumatic brain injury.

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=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)

Learning Activities

Classroom Activities:

- Lecture
- Discussion
- Case scenarios

Laboratory/Clinical:

- Advanced Medical Surgical SIM in laboratory setting
- Competency Performance Exam

Online:

- ABG Analysis Video (See HESI & Other Assignment document in LMS under Lessons)

<ul style="list-style-type: none"> • 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) • 61 medications from LVN-RN Advanced Medical-Surgical Medication List – submit 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;	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
Date originated: 11/1/17	Revision Dates: 8/20/2020; 8/31/21