

L: Cardiovascular

Major Competency Area: **L**
Cardiovascular

Competency: **L-1**
Cardiovascular Nursing

Date: January 16, 2017

A Licensed Practical Nurse will:

- L-1-1 Demonstrate knowledge and ability to apply critical thinking and critical inquiry throughout the nursing process in cardiovascular nursing.**
- L-1-2 Demonstrate knowledge and understanding of anatomy, physiology and pathophysiology of the cardiovascular system and cardiovascular disease such as:**
- determinants of normal cardiac cycle and cardiac conduction pathway
 - cardiovascular diseases and disorders
 - atherosclerosis
 - cardiac dysrhythmias
 - cardiomyopathy
 - heart failure
 - hypercholesterolemia/dyslipidemia
 - hyper/hypotension
 - ischemic heart disease
 - peripheral artery disease
 - determinants of blood pressure and central venous pressure
 - decompensation, shock, hypovolemic shock, cardiac failure
 - single and multiple organ system failure
- L-1-3 Demonstrate knowledge and ability to provide health teaching and coaching associated with cardiovascular nursing.**
- L-1-4 Demonstrate knowledge and ability to communicate and collaborate with inter-professional team.**

Major Competency Area: **L**
Cardiovascular

Competency: **L-2**
Cardiovascular Interventions

Date: January 16, 2017

A Licensed Practical Nurse will:

L-2-1 Demonstrate knowledge and ability to provide evidence informed, client centered care in relation to cardiovascular nursing:

- ensure and respect client choices in decision making
- assess and monitor:
 - hemodynamics
 - lab values/biochemical markers
 - limb temperature
 - peripheral diagnostic and interventional procedures
 - renal sufficiency
 - venous thromboembolism (sequential compression device therapy)
 - vital signs
- differentiate normal rhythm and arrhythmia
- prepare client for diagnostic tests, procedures, treatments and/or surgery
- implement pre/post procedure routines and protocols

L-2-2 Demonstrate knowledge of cardiac equipment:

- 3 and 5 lead electrocardiogram (ECG)
- telemetry equipment
- resuscitation equipment:
 - automated external defibrillator (AED)
 - bag and mask
 - crash cart
- understand use of:
 - external cardiac pacing
 - pacemaker sensing, on/off
 - 24 hour Holter monitor
 - Doppler imagery/echocardiography
 - central venous pressure (CVP) and arterial lines

L-2-3 Demonstrate ability to utilize and apply cardiac equipment:

- apply 3 and 5 lead electrocardiogram (ECG)
- apply telemetry equipment
- resuscitation equipment:
 - automated external defibrillator (AED)
 - bag and mask
 - crash cart

A Licensed Practical Nurse will:

- L-2-4 Demonstrate knowledge and understanding of normal/abnormal lab values and cardiac markers such as:**
- Aspartate transaminase (AST)
 - Creatine Kinase (CK-MB)
 - Myoglobin (Mb)
 - Troponin 1 test
- L-2-5 Demonstrate knowledge and understanding of indications, contraindications and complications associated with cardiovascular and related diagnostic tests and procedures including:**
- angiogram (radial, femoral)
 - angioplasty and stents
 - echocardiogram (trans-thoracic, trans-esophageal)
 - exercise stress test
- L-2-6 Demonstrate knowledge and ability to anticipate and recognize actual or potential immediate life threatening health crisis such as:**
- alteration in cardiac output
 - alteration in vascular tissue perfusion (compartment syndrome)
 - cardiac arrhythmias
 - cardiomyopathy
 - congestive failure
 - myocardial infarction
 - shock
- L-2-7 Demonstrate knowledge and ability to recognize signs and symptoms of a life threatening cardiac event and implement or assist with cardio pulmonary resuscitation according to agency policy.**

A Licensed Practical Nurse will:

L-3-1 Demonstrate knowledge and ability to care for client requiring detailed observation and interventions including:

- hemodynamic monitoring
 - central venous pressure monitoring (CVP)
 - peripherally inserted central catheter care (PICC)
 - arterial line monitoring
- non-invasive and mechanical ventilation

L-3-2 Demonstrate knowledge and ability to assist with and/or provide cardiac procedures, treatments, therapies and recognize abnormal diagnostic and lab values:

- 12 and 15 lead ECG application
 - recognize and report normal and abnormal rhythm
- assist with atrial fibrillation protocol
- assist with the monitoring and managing of symptoms of arrhythmia

L-3-3 Demonstrate knowledge and understanding of indications for use of external cardiac pacing and implanted cardiac devices:

- monitor telemetry equipment
- apply 24hr Holter monitor
- recognize complications of external pacemaker and implantable cardioverter defibrillator (ICD)
 - failure to output
 - failure to capture
 - sensing abnormalities

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