



North Country EMS Program Agency

“Serving Jefferson, Lewis & St. Lawrence Counties”

www.ncemsprogramagency.org

North Country EMS providers please complete the quiz and mail, email, or fax to the North Country EMS Program Agency to receive 1 hour of ALS CME credit. Minimum score of 80% must be achieved.

1. Which of the following exam or assessment findings would be considered abnormal in a patient with an LVAD
 - a. Warm, pink Skin
 - b. Absence of a pulse
 - c. Capillary refill >2 seconds
 - d. BP done by auto cuff of 70 mmHg

2. In the event of an emergency involving an LVAD patient, which of the following is NOT a recommended resource for immediate assistance in trouble shooting problem?
 - a. Asking for assistance from the patient’s family or normal caregiver
 - b. Visiting the manufacturer’s website on your smart phone
 - c. Calling the LVAD coordinator from implanting hospital
 - d. Checking the patients resource binder

3. The LVAD patient’s ECG shows ventricular fibrillation and you can’t feel a pulse. The patient is unconscious and no family members are present. You should first
 - a. Call the LVAD coordinator and prepare for immediate defibrillation
 - b. Turn off the LVAD pump by disconnecting power source
 - c. Immediately begin chest compressions
 - d. Temporarily disable the LVAD and transport emergently

4. When assessing a patient with an LVAD, you should auscultate heart sounds. What is the best location to auscultate to assess whether or not the pump is working?
 - a. Base of heart
 - b. Over the Left nipple
 - c. Apex of heart
 - d. None of the above

5. What is best indicator of an LVAD patient’s perfusion status?
 - a. Blood Pressure
 - b. Mental status and skin
 - c. Pulse Oximetry
 - d. Pulses

6. LVAD devices usually have a cannula which is attached to the _____ of the heart and pulls blood from the ventricle through the pump and out in the _____ aorta.
 - a. Base, ascending
 - b. Apex , ascending
 - c. Base, descending
 - d. Apex, descending



North Country EMS Program Agency

“Serving Jefferson, Lewis & St. Lawrence Counties”

www.ncemsprogramagency.org

7. You are called to the home of an LVAD patient who presents with an uncontrollable nose bleed. Patient is alert, airway open and has adequate breathing. Your next step should be
 - a. Call the LVAD coordinator
 - b. Locate LVAD resource binder and travel bag
 - c. Auscultate heart sounds
 - d. Control the bleeding

8. While assessing or transporting a LVAD patient you want to be sure to
 - a. Keep them dry
 - b. Do not cut, twist or bend the drive-line
 - c. Take their travel bag with them
 - d. All of the above

9. Indications for a patient to receive an LVAD are
 - a. End-stage heart failure
 - b. Heart attack
 - c. CVA
 - d. Chest Trauma

10. Most 911 calls made by a patient with a LVAD in place are due to equipment malfunction
 - a. True
 - b. False