# **LEFT VENTRICULAR ASSIST DEVICE (LVAD)**

#### **ALL PROVIDERS/EMT**

- Focused history and physical exam
  - Assess for evidence that resuscitation should not be attempted per the *Death Determination Guideline*.
  - Evaluate for Medical Alert Bracelet with instructions. Follow instructions as able.
  - The LVAD consists of an implanted, continuous flow pump attached to the left ventricle, an external
    control device, and power supply secured by a harness
  - Every patient should have a backup equipment bag for his or her LVAD.
  - Patients and families are usually well educated on the power supply of their LVAD and the use of the backup controller/driver. Utilize them and follow their directions on scene.
  - Patients with continuous flow assist devices will not have a palpable pulse. Assess for signs of adequate perfusion using skin signs and blood pressure.
- □ Continuous cardiac, ETCO2, and pulse oximetry monitoring when available.

### □ Treatment Plan

- Check to see if the patient is responsive.
- Check if the LVAD is functioning by listening for a HUM.
- · Check the patient's rhythm.
- Check for alarm lights and sounds Red high-priority alarms are URGENT.
- Check cable connections.
- · Check power source.
- · Change controller if needed.
- Priority is placed on restarting the pump. If unable to restart the pump, then begin chest compressions on upper half of the sternum.

#### ☐ Key Considerations

- Determine Type of Device Heart Mate II, Jarvik 2000, or Heartware
- Patients or their families should have a phone number to their LVAD coordinator. This person should be used as the OLMC.
- IF the number is not available, contact the LVAD Coordinator at the University Medical Center (801-581-2121) OR the intermountain Medical Center (801-507-LVAD), for assistance.
- Transport to the specialty center that implanted the device is preferable, if stable and transport times are reasonable, as directed by the OLMC.
- BLS airway support as needed.

## **ADULT**

# **AEMT**

- Supportive care of airway, vascular access and fluid therapy per IV/IO Access and Fluid Therapy Guidelines
- □ LVADs are preload dependent and a fluid bolus may improve perfusion

#### **PARAMEDIC**

ACLS medications as indicated