

ORANGE COUNTY EMERGENCY MEDICAL SERVICES BASE HOSPITAL TREATMENT GUIDELINES VENTRICULAR ASSIST DEVICE (PEDIATRIC)

: <u>BH-P-110</u>

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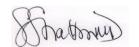
BASE GUIDELINES

- 1. Monitor any cardiac rhythm Note: The ECG heart rate will be different from the pulse rate since the VAD is not synchronized with the native heart. The pulse rate reflects the rate supporting perfusion.
- Establish IV access.
- 3. Treat symptoms and signs according to applicable treatment guidelines.
- 4. Defibrillation/cardioversion pads placement is not affected by the LVAD.
 - → VAD patients may also have an Implanted Cardioverter-Defibrillator (ICD) or pacing ICD.
- 5. Ventricular dysrhythmias may continue to perfuse through the VAD pump.
- For pulmonary edema with hypotension and 'red heart' alarm initiate hand pumping in first generation (displacement pulsatile) VADs.
 - → Thoratec HeartMate[™] VADs operate either as a pulsatile displacement pump (first generation) or as a nonpulsatile axial turbine (second generation).
- 7. Loss of cardiac output from VAD failure and a 'red heart' alarm may present as dyspnea, nausea, hypotension, syncope, loss of consciousness or pulmonary edema. In the absence of a 'red heart' alarm look for other causes.
- 8. For hypotension with lungs clear and no signs of CHF/pulmonary edema:
 - Normal Saline, infuse 20 mL/Kg (maximum single bolus of 250 mL), may repeat twice to maintain perfusion.

ALS STANDING ORDER

No ALS Standing Order for Ventricular Assist Device (Pediatric)

Approved:





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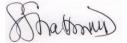
BASE GUIDELINES

- 9. Collect all VAD equipment including the power base unit, spare batteries, spare controller unit and hand pump (for first generation VADs) as directed by the caregiver and VAD Program Coordinator (if on the telephone) and transport with the patient and caregiver.
- 10. Do not separate the patient from the caregiver. The caregiver will be trained in managing the VAD equipment.
- 11. Transport to the closest appropriate ERC or CCERC. This may be an ERC/CCERC with which the patient has a relationship through the VAD Program.

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