



- f. Congestive heart failure (CHF)
- g. Aortic insufficiency

Quality Improvement

Associated NEMSIS Protocol(s) (eProtocol.01) (for additional information, go to www.nemsis.org)

- 9914065 – General - Indwelling Medical Devices/Equipment
- 9914069 – General - Medical Device Malfunction

Key Documentation Elements

- Information gained from the VAD control box indicating any specific device malfunctions
- Interventions performed to restore a malfunctioning VAD to normal function
- Time of notification to and instructions from VAD-trained companion and/or VAD coordinator

Performance Measures

- Identify and mitigate any correctable VAD malfunctions
- Perform CPR for patients in cardiac arrest when indicated

References

1. Garg S, Ayers CR, Fitzsimmons C, et al. In-hospital cardiopulmonary arrests in patients with left ventricular assist devices. *J Card Fail.* 2014;20(12):899–904
2. Mabvuure NT, Rodrigues JN. External cardiac compression during cardiopulmonary resuscitation with left ventricular assist devices. *Interact Cardiovasc Thorac Surg.* 2014;19(2):286–9
3. Mechem M. Prehospital assessment and management of patients with ventricular-assist devices. *Prehosp Emerg Care.* 2013;17(2):223–9
4. Shinar Z, Bellezzo J, Stahovich M, Cheskes S, Chillcott S, Dembitsky W. Chest compressions may be safe in arresting patients with left ventricular assist devices (LVADs). *Resuscitation.* 2014;85(5):702–4
5. Sepsis: SIRS 4 Criteria, Severe Sepsis Criteria and Treatment Nursing Jobs Exam *The Beginner's Guide to Intensive Care: A Handbook for Junior Doctors and Allied Professionals.* Nurses Notes. 2021. <https://nursingjobsexam.com/sepsis-sirs-criteria-severe-sepsis-criteria/>. Accessed March 11, 2022

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