

Quality Improvement

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

- 9914147 – Medical - Supraventricular Tachycardia (including A-FIB)
- 9914151 – Medical - Ventricular Tachycardia (with pulse)
- 9914199 – Medical-Tachycardia

Key Documentation Elements

- Initial rhythm and all rhythm changes
- Time, dose, and response to medications given
- Cardioversion times, synchronization, attempts, joules, and response
- Obtain monitor strips after each intervention
- Patient weight
- Pediatric length-based tape color (for pediatrics who fit on tape)
- History of event supporting treatment of underlying causes

Performance Measures

- Time to clinical improvement from patient contact
- Blood sugar obtained
- Correct medication(s) and dose given for patient condition, age, and weight
- Correct cardioversion joules delivered given patient weight and/or condition
- Use of sedation for responsive patient
- **National EMS Quality Alliance (NEMSQA) Performance Measures** (for additional information, see www.nemsqa.org)
 - Hypoglycemia—01: Treatment Administered for Hypoglycemia
 - Pediatrics—03: Documentation of Estimated Weight in Kilograms

References

1. DeSouza IS, Martindale JL, Sinert R. Antidysrhythmic drug therapy for the termination of stable, monomorphic ventricular tachycardia: a systematic review. *Emerg Med J.* 2015;32(2):161–7
2. Fengler BT, Brady WJ, Plautz CU. Atrial fibrillation in the Wolff-Parkinson-White Syndrome: EKG recognition and treatment in the ED. *Am J Emerg Med.* 2007;25(5):576–83
3. Fuster V, Rydén LE, Cannom DS, et al. ACC/AHA/ESC 2006 guidelines for the management of patients with atrial fibrillation – executive summary. *Rev Port Cardiol.* Apr;26(4):383–446
4. Link MS, Berkow LC, Kudenchuk HR, et al. Part 7: adult advanced cardiovascular life support. *Circulation.* 2015;132(18 Suppl 2):S444–64
5. Long B, Koifman A. Best clinical practice: emergency medicine management of stable monomorphic ventricular tachycardia. *J Emerg Med.* Epub 2016 Oct 15. 2017;4(15):484–492. doi:10.1016/j.jemermed.2016.09.010.
6. McNamara RL, Tamariz LJ, Segal JB, Bass EB. Management of atrial fibrillation: review of the evidence for the role of pharmacologic therapy, electrical cardioversion, and echocardiography. *Ann Intern Med.* 2003;139(12):1018–33