



## **Quality Improvement**

**Associated NEMSIS Protocol(s) (eProtocol.01)** (for additional information, go to [www.nemsis.org](http://www.nemsis.org))

- 9914133 – Medical - Newborn/Neonatal Resuscitation

### **Key Documentation Elements**

- Historical elements
  - Prenatal complications
  - Delivery complications
  - Date and time of birth
  - Estimated gestational age
- Physical exam findings
  - Heart rate
  - Respiratory rate
  - Respiratory effort
  - Appearance
  - **APGAR** score at 1 minute and 5 minutes

### **Performance Measures**

- Prehospital on-scene time
- Call time for additional resources
- Arrival time of additional unit
- Time to initiation of interventions
- Use of oxygen during resuscitation
- Presence of advanced life support (ALS) versus basic life support (BLS) clinicians
- Hypothermia on arrival in the emergency department
- Hypoglycemia evaluated and treated
- ROSC (return of spontaneous circulation) and/or normalization of heart rate
- Length of stay in neonatal intensive care unit
- Length of stay in newborn nursery
- Length of stay in hospital
- Knowledge retention of prehospital clinicians
- Number of advanced airway attempts
- Mortality

## **References**

1. AGOG Recommends Delayed Umbilical Cord Clamping for All Healthy Infants. Agog.org. <https://www.acog.org/About-ACOG/News-Room/News-Releases/2016/Delayed-Umbilical-Cord-Clamping-for-All-Healthy-Infants>. Published December 21, 2006. Accessed August 27, 2017
2. Aziz K, Lee HC, Escobedo, MB et al. Part 5: Neonatal Resuscitation: 2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation* 2020; 142; S524–S550
3. Vali P, Chandrasekharian P, Rawat M, et al. Evaluation of timing and route of epinephrine administration in a neonatal model of asphyxia arrest. *J Am Heart Assoc* 2017;6: e004402
4. Weiner GM, Zaichkin J. Textbook of neonatal resuscitation (NRP), 7<sup>th</sup> Ed. Elk Grove Village, IL:

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