NEWBORN RESUSCITATION

UPDATED 4/2025

ALL PROVIDERS / EMT

	Focused history and physical exam: Term baby? Breathing? Tone? Continuous ECG, ETCo2, and pulse oximetry monitoring Treatment Plan Obtain APGAR (Appearance, Pulse, Grimace, Activity, Respiration) score at 1 minute, 5 minutes. For infants with a score less than 7, continue every 5 minutes until hospital arrival. If the newborn is crying, pink and has good tone; newborn can stay with mother and breast feed If the newborn is apneic, slow to respond, has slow or gasping respirations, or persistent central cyanosis				
	 Evaluate respirations, heart rate, and activity Next 30 seconds: If after first 30 seconds the baby remains apneic, lethargic, and/or has HR <100, then perform 30 seconds of positive pressure ventilation (PPV) with BVM with a rate of 40-60 breaths/minute 				
	 Watch for chest rise to ensure adequate ventilation. If none, reposition mask seal and increase pressure slightly 				
	 Start at room air resuscitation and gradually increase O2% if no improvement is noted. 				
	• Target O2 saturations to 90%; excessive oxygenation can be harmful to the newborn				
	 Target PPV efforts to improving tone and increasing heart rate; titrate up O2 if HR remains <100 despite adequate PPV 				
	o After 1 minute: If after an additional 30 seconds of effective PPV the baby continues to have a HR<60, begin CPR with a breath/compression ratio of 1:3.				
	Key Considerations				
	• As nationally established neonatal resuscitation guidelines (NALS, NRP, etc.) are updated, these may be integrated into performance, as per agency medical director				
	 Check glucose and treat if <30mg/dl Keep baby as warm as possible 				
	Keep baby as warm as possible				
	AEMT				
	Supraglottic airway device placement may be indicated when: • BVM has been ineffective despite repositioning infant and checking equipment				
	• Chest compressions are necessary				
	IV or IO at a keep open rate (approx. 10ml/hr) after 1 bolus to avoid volume overload				
	 IV only when required for fluid resuscitation or parenteral medication IO infusions are only indicated when life-threatening conditions are present 				
	Epinephrine				
_	• IV/IO- 0.01mg/kg (1:10,000) Every 3-5 minutes until ROSC or HR >60 bpm				
	Dextrose 10% per Glucose Emergencies - Hypoglycemia/Hyperglycemia Guidelines				
\bigcirc	Additional boluses require OLMC				

- ☐ Endotracheal intubation may be indicated when:
 - BVM has been ineffective despite repositioning infant and checking equipment
 - Chest compressions are necessary
 - Insert a gastric tube in all intubated patients
 - Suction the trachea using a suction catheter through the endotracheal tube or directly suction the trachea with a meconium aspirator for poor chest rise despite successful intubation
- ☐ Epinephrine: IV/IO 0.01mg/kg (1:10,000) every 3 to 5 minutes until ROSC or HR >60 BPM
- □ Dextrose 10% per Glucose Emergencies Hypoglycemia/Hyperglycemia Guidelines

Neonatal Resuscitation Algorithm

