



NEONATAL RESUSCITATION

Effective: January 1, 2024
Replaces: May 1, 2017

1. BLS Treatment

- 1.1. Routine Medical Care – Pediatric (700-S05)
 - 1.1.1. Keep newborn level with placenta in neutral position for 60 seconds
 - 1.1.1.1. Provide drying, warming and mild stimulation
 - 1.1.1.2. Avoid hypothermia by drying, covering head and wrapping in towel
 - 1.1.2. Suction only if signs of obstruction
 - 1.1.3. After 1 minute clamp and cut cord about 5-6 inches from newborn's abdomen
 - 1.1.4. Assess respirations and apical pulse
- 1.2. If neonate is term, has strong cry, good tone and regular respirations, place skin to skin with mother. Provide additional warming if needed
- 1.3. If HR > 100 beats per minute, monitor for central cyanosis and provide blow-by oxygen as needed
- 1.4. If **Respirations** are gasping or apneic and HR <100:
 - 1.4.1. Position and clear airway
 - 1.4.2. Assist ventilations with **room air BVM** at a rate of **40–60** respirations per minute
 - 1.4.3. Apply SpO2 monitor to right palm
 - 1.4.3.1. Targeted preductal (right hand) SpO2 after birth:
 - 1 min: 60-65%
 - 2 min: 65-70%
 - 3 min: 70-75%
 - 4 min: 75-80%
 - 5 min: 80-85%
 - 10 min: 85-95%
- 1.5. If **Heart Rate** is **less than sixty (60)** beats per minute and unresponsive to **BVM**:
 - 1.5.1. Assist ventilations with **BVM** with titrated supplemental **oxygen to targeted preductal SpO2, AND**
 - 1.5.2. Start **chest compressions** at a rate of **90** compressions a minute, AND
 - 1.5.3. **Ventilate** every third chest compression
- 1.6. If **Heart Rate** is **greater than sixty (60)** beats per minute:
 - 1.6.1. Continue to monitor and assist with ventilations as needed

2. ALS Treatment

- 2.1. Establish **vascular access (IV/IO)**
- 2.2. If **Heart Rate** is sixty (**60**) beats per minute or less after at least 30 seconds of assisted ventilation and 60 seconds of chest compressions with ventilation, administer:
 - 2.2.1. **Epinephrine** (1:10,000) 0.02 mg/kg IV/IO using length-based tape, followed by 3 mL normal saline flush, may repeat once
 - 2.2.2. Administer 10 ml/kg normal saline bolus for post resuscitative care



3. Treatment Flow Chart

