

# **NEONATAL RESUSCITATION**

## **BLS Procedures**

If NO IMPROVEMENT in muscle tone/respiratory effort after 1 minute of opening the airway and drying/stimulating:

**BEGIN PPV**– 1 breath every 3 seconds (Using a self-inflated infant BVM using Room Air)

Assist with gentle and appropriate PPV for 30 seconds, ensuring good chest rise, then check for a heart rate.

HEART RATE < 60 BPM	HEART RATE 60-99 BPM	HEART RATE ≥ 100 BPM
Reassess Ventilations	Reassess Ventilations	Continue PPV 40-60 breaths/min
Corrective Steps  Adjust head Consider adding O <sub>2</sub> Clear/Suction Airway	Corrective Steps  Adjust head Consider adding O <sub>2</sub> Clear/Suction Airway	Monitor for spontaneous respiratory effort
Begin Compressions 100/minute	N/A	N/A

# 3:1 Compression/Ventilation Ratio

Reassess Heart Rate every 60 seconds

## **ALS Prior to Base Hospital Contact**

#### ALS Management

- Establish IO line only in presence of CPR IO Indicated in patients weighing >3kg
- Asystole, PEA, or Persistent Bradycardia (HR < 60bpm)
  - o Epinephrine 1mg/10mL
  - IO **0.01mg/kg** (0.1mL/kg) every 3-5 mins
- Establish early Base Hospital Contact

## Advanced Airway Management

Supraglottic Airway Device for patients weighing ≥2kg
 Refer to Policy 546: Supraglottic Airway Device

## **Base Hospital Physician Orders Only**

Consult with ED Physician for further treatment measures.

#### **Additional Information**

#### Miscellaneous

- Early Base Hospital Contact should be made for all pediatric cardiac arrests
- If HR remains below 60bpm despite resuscitative measures, consider hypovolemia

## Withholding Resuscitation Efforts

- Resuscitation may be withheld for extremely preterm infants (< 23 weeks or < 9 inches long)
  - o Sensitivity to the desires of the parent(s) may be considered
  - o If uncertain as to gestational age, begin resuscitation and establish BHC

## Oxygen Saturation in Neonates

Effective Date: April 1, 2024

 Refer to <u>Appendix A</u> for age-appropriate vital signs and refer to chart for Target Oxygen Saturation Table for further reference.

rarger Oxygen	· ·
1 min	60%-65%
2 min	65%-70%
3 min	70%-75%
4 min	75%-80%
5 min	80%-85%
10 min	85%-95%
Initial oxygen cor	centration for PPV
- 35 weeks' GA	21% oxygen
<35 weeks' GA	21%-30% oxygen

Torget Ovugen Saturation Tab

Last Reviewed/Revised: December 31, 2023
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Signature on File