

Sample Practice Scenario:

Precipitous delivery of a term infant in the Emergency Department

Goals:

- 1) gain familiarity and increase comfort with neonatal resuscitation equipment
- 2) review Neonatal Resuscitation Algorithm
- 3) Practice positive pressure ventilation of newborn

Scenario:

EMS is 5 minutes out with a healthy mother whose delivery is imminent.

Critical Performance Steps Checklist: (with instructor answers in pink)

Prior to arrival:

- ☐ Gestational age? (38 weeks)
- ☐ Did mother have prenatal care? (yes)
- ☐ Pregnancy complications? (none)
- ☐ Assemble team
- ☐ Perform pre-resuscitation briefing
 - ☐ Identify team leader
 - ☐ Delegate tasks
 - ☐ Identify who to call for additional help
- ☐ Perform equipment check

After delivery of the infant:

- ☐ Rapid evaluation
 - ☐ Term?
 - ☐ Tone?
 - ☐ Breathing or crying?
- ☐ Initial steps at warmer
 - ☐ Dry, bulb suction, stimulation
- ☐ Assess breathing (and heart rate if breathing)
 - ☐ Is the infant breathing? (no)
 - ☐ What is the heart rate? (70 if participant asks)
- ☐ Begin PPV within 60 seconds of birth

- ☐ Infant in sniffing position
- ☐ Correct mask position?
- ☐ Uses 21% FiO₂ at 20 cm H₂O peak inspiratory pressure/ 5 cm H₂O PEEP
- ☐ Rate 40-60 breaths/minute
- ☐ Requests pulse oximeter (no reading yet)
- ☐ heart rate monitor (heart rate 70 BPM)
- ☐ Assesses heart rate after 15 seconds of PPV (heart rate 70)

Ventilatory Corrective Steps (MR SOPA):

- ☐ **M**ask adjustment
- ☐ **R**eposition head and neck (with shoulder roll if not already using)
- ☐ Asks assistant if chest movement when breath delivered (no chest movement)
- ☐ **S**uctions the mouth
- ☐ **O**pens the mouth
- ☐ Asks assistant if chest movement when breath delivered (no chest movement, HR 70, O₂ saturation 66% if asked)
- ☐ **P**ressure increase by 5 cm H₂O
- ☐ Asks assistant if chest movement when breath delivered (there is chest movement)
- ☐ Continues PPV that moves the chest for 30 seconds (HR increases to 120, SpO₂ 80%)
- ☐ Could consider **A**dvanced airway if infant had not responded to previous steps

Infant cries, end simulation