

Resuscitation of a One-day-old Newborn in the Mother's Hospital Room



Educational Focus

Scenario Outline

This case presents a term infant after an uncomplicated pregnancy, labor, and birth. The infant is an apparently healthy, full-term newborn that suddenly becomes apneic and unresponsive in her mother's hospital room at 20 hours of age. The scenario focuses on considerations for resuscitation outside of the delivery room, including quickly mobilizing an emergency resuscitation team, obtaining equipment, and maintaining the newborn's body temperature. The newborn requires positive-pressure ventilation.

Learning Objectives

Upon completion of the simulation, the learners will be able to:

- Summarize how NRP principles can be applied to babies who require unanticipated resuscitation in the hospital after leaving the hospital delivery room.
- Identify effective methods for assembling additional equipment and personnel outside the delivery room
- Demonstrate the correct technique for administering positive-pressure ventilation

Debriefing Points

Points for discussion during debriefing could include:

- Considerations for newborn resuscitation outside the delivery room
- Strategies for mobilizing qualified help and necessary equipment
- · Use of NRP Key Behavioral Skills

Reference Materials

Textbook of Neonatal Resuscitation, 8th edition, Supplemental lesson 13: Resuscitation Outside the Delivery Room Textbook of Neonatal Resuscitation, 8th edition, Lesson 4: Positive-Pressure Ventilation

Setup & Simulation

Equipment

For setup:

- Bassinette
- · Bulb syringe
- Self-inflating bag and mask
- Clothing for SimNewB
- · Segment of simulated umbilical cord
- · Umbilical cord clamp

For use during simulation:

• All items included in the NRP Quick Equipment Checklist

Setup & Preparation

- Setting: Post-partum room.
- Prepare the radiant warmer so it is equipped with supplies listed on the NRP Quick Equipment Checklist and place it either inside or outside the room as appropriate for the local facility.
- Insert a clamped umbilical cord into the simulator's abdomen and dress the simulator in baby clothes.
- The mother and a family member are sitting on the bed, and the mother is holding the simulator in her arms.
- Place a bassinette close to the bed. (The bassinette is not the best option for resuscitation because it is difficult to perform PPV when the baby is in a bassinette, but having the bassinette within reach will provide an opportunity for learners to consider this option. Having another family member on the bed can also challenge learners as they will then have to ask the family member to move if the bed is needed for the resuscitation.)

- Place a bulb syringe in the bassinette and hang a plastic bag containing a self-inflating bag and mask on the wall.
- As the scenario starts, the mother is calling out for help and is visibly upset about the situation.

Learner Brief

Provide this information to the participants as they enter the simulation:

A baby girl was born in the hospital at term after an uncomplicated pregnancy, labor, and vaginal birth. The transitional period was uneventful. She remained with her mother and began breastfeeding soon after birth. She is now 20 hours of age and you respond to calls for help from the mother's room.

Additional Information

If asked what has happened, the mother will provide the following information to the participants:

"I just fed her, now she is not breathing and she is blue."



Scenario Progression

