

# MATERNAL AND NEWBORN QUALITY OF CARE FACILITY ASSESSMENT

## Newborn Resuscitation Simulation

### Section XI: Newborn Resuscitation Simulation

**PREPARE AND SET UP A SIMULATION AREA WITH THE FOLLOWING EQUIPMENT:**

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| <ul style="list-style-type: none"> <li>• NeoNatalie model (preferably filled with water)</li> <li>• Table or other suitable flat surface</li> <li>• 2 x cloth or baby blanket to wrap model</li> <li>• 2 x cord ties (string)</li> <li>• Suction apparatus</li> </ul> | <ul style="list-style-type: none"> <li>• Self-inflating bag (newborn)</li> <li>• Infant face masks size 0 and size 1</li> <li>• Stethoscope</li> <li>• Timer (watch or clock)</li> </ul> |
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*FOR SOME PROVIDERS, THIS WILL BE THEIR FIRST EXPOSURE TO THE NEO NATALIE DOLL. BEFORE CONDUCTING THE SIMULATION, BRIEFLY DEMONSTRATE HOW THE DOLL WORKS (SHOW THAT IT RESPONDS TO PROVIDER ACTIONS) AND ALLOW THE PROVIDER TO TOUCH AND TRY IT OUT. **DO NOT** GIVE ANY INSTRUCTION ON HOW TO PERFORM THE RESUSCITATION. IF THE PROVIDER HAS NOT SEEN THE "PENGUIN" SUCTION DEVICE BEFORE, LET THEM TRY THAT ALSO.*

**READ ALOUD:**

The purpose of this activity is to provide a simulated experience for service providers to demonstrate management of an asphyxiated newborn. During the simulation, you should do and say everything the same as you would during an actual resuscitation. Pretend that I am the newborn's mother.

Fatima has given birth to a 2,800 g baby boy after a prolonged second stage of labor. This was her second pregnancy. Her first baby is alive. At birth, the newborn is blue and limp and does not breathe.

**RECORD WHETHER THE PROVIDER CARRIED OUT THE FOLLOWING STEPS AND/OR EXAMINATIONS:**

Question	Yes	No	DK	Go to
H502: Clears the airway by suctioning the mouth first and then the nose	1	0	8	
H503: Stimulates baby with back rubbing	1	0	8	

**TELL THE PROVIDER THAT THE NEWBORN IS NOT BREATHING AFTER SUCTIONING AND RUBBING THE BACK**

H505: Calls for help	1	0	8	
H506: Ties or clamps cord immediately	1	0	8	
H507: Cuts cord with clean blade or clean scissors	1	0	8	
H508: Places the newborn on his/her back on a clean, warm surface or towel	1	0	8	
H509: Places the head in a slightly extended position to open the airway	1	0	8	
H510: Tells the woman (and her support person) what is going to be done	1	0	8	
H511: Listens to woman and provides support and reassurance	1	0	8	
H512: Checks mouth, back of throat and nose for secretions, and clears if necessary	1	0	8	
H513: Places the correct-sized mask on the newborn's face so that it covers the chin, mouth and nose (but not eyes)	1	0	8	
H514: Checks the seal by ventilating two times and observing the rise of the chest	1	0	8	
H515: <b>OBSERVER:</b> is the neonatalie model's chest rising?	1	0		Yes→H524
H516: Checks the position of the newborn's head to make sure that the neck is in a slightly extended position (not blocking the airway)	1	0	8	
H517: Checks mouth, back of throat and nose for secretions, and clears if necessary	1	0	8	
H518: Checks the seal by ventilating two times and observing the rise of the chest	1	0	8	
H519: <b>OBSERVER:</b> is the neonatalie model's chest rising?	1	0		Yes→H524
H520: Checks the position of the newborn's head again to make sure that the neck is in slightly extended position	1	0	8	
H521: Repeats suction of mouth and nose to clear secretions, if necessary	1	0	8	
H522: Checks the seal by ventilating two times and observing the rise of the chest	1	0	8	
H523: <b>OBSERVER:</b> is the neonatalie model's chest rising?	1	0		
H524: Ventilates at a rate of 30 to 50 breaths/minute	1	0	8	
Q525: Conducts assessment of newborn breathing after 1 minute of ventilation	1	0		

**TELL THE PROVIDER THAT THE NEWBORN IS STILL NOT BREATHING AFTER 1 MINUTE OF RESUSCITATION**

H527: Continues ventilation	1	0	8	
Q528: Conducts assessment of newborn breathing after prolonged ventilation (10 minutes)	1	0		

**TELL THE PROVIDER THAT THE NEWBORN IS NOW BREATHING NORMALLY AFTER CONTINUED RESUSCITATION**

H533: Arranges transfer to special care either in facility or to outside facility	1	0	8	
H534: Explains to the mother (and her support person if available) what happened	1	0	8	
H535: <i>PLEASE COMMENT ON HEALTH WORKER'S PERFORMANCE DURING THE SIMULATION:</i>				

**REMEMBER TO THANK PROVIDER FOR THEIR PARTICIPATION IN THE STUDY**

**END OF HEALTH WORKER INTERVIEW & KNOWLEDGE TEST**