

Scenario: *Neonatal Resuscitation*
 Patient: *Baby Tori*
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Section 1: Demographics

Scenario Title : Neonatal Resuscitation at Whitfield
Simulated Patient Name(s): Baby Tori Simms
Simulated Patient Age: newborn

Developer: Mercedes Willis
Developer Email: membry@uab.edu

Revising Author	Date Revised
TIME	
Setup	
Simulation	
Debrief	
TOTAL	

Target Learner Groups
Whitfield Regional Hospital L&D team, including L&D RNs, OB/GYNs, Responding OR team.

Learner Objectives
<p><i>At the end of the session, learners should be able to...</i></p> <ol style="list-style-type: none"> 1. <i>Demonstrates resource utilization by calling for help appropriately, prioritizing tasks and triaging as required.</i> 2. <i>Demonstrate understanding and recognize signs of fetal decompensation.</i> 3. <i>Implement appropriate algorithm for neonatal resuscitation.</i> <ol style="list-style-type: none"> a. b. c. 4. <i>Demonstrates communication skills by and updating mother on status of infant.</i> 5. <i>Discuss next steps on disposition of intubated baby.</i> <p>Know who to call Know how to stimulate and bag infant Know what drugs to give, where to find them, how much to give Update mother if possible</p> <p>How to transport baby?—Demonstrate or Discuss next steps on disposition/environment</p> <p><i>Umbilical cord kits? UVC NRP epi or ET tube</i></p>

Scenario Synopsis for Facilitator

At delivery baby is limp and unresponsive. There is no meconium. Baby has poor tone and is blue. Baby weighs 3.3 kg (7.26 lb) Term delivery.

Upon Delivery Baby has low apgar scores, limp, and unresponsive requiring resuscitation.

Upon Delivery Baby has low apgar scores, limp, and unresponsive requiring resuscitation.
Patient: *[Insert Patient Name]*
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This scenario will be used as the second case in a 3-part series or can be used as a stand-alone scenario.

- Scenario A – Imminent Delivery – Normal
- Scenario B – Fetal Delivery with Complications
- Scenario C – Imminent Delivery- Complicated (Precipitous/Breech with Prolapsed Cord)

Type of Debriefing

Advocacy Inquiry (A/I) and Plus/Delta (+/Δ).

Section 3: Setup

Simulator / Scenario / Files

AV Considerations

CLINICAL SIMULATION



<p>Simulator to use: Baby Tori Patient to use in Computer: Scenario Title in Computer: Supporting Files, Documents, etc:</p>	<p>Video Recording: YES / NO Video Streaming: YES / NO Other: Headsets</p> <p>Due to accreditation requirements, we will record all simulation debriefings</p>
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Initial Simulator Setup

<i>Clinical Setting</i>	Delivery Suite
<i>Bed Type</i>	Warmer
<i>Body Props</i>	Covered in amniotic fluid
<i>Body Position</i>	Flat
<i>IV Access</i>	N/A
<i>Wounds/Dressings</i>	Amniotic Fluid to simulate recent delivery/lubricant
<i>Moulage</i>	
<i>Wig</i>	
<i>Arm Band</i>	

CLINICAL SIMULATION



Scenario: *[Insert Scenario Title]*

Patient: *[Insert Patient Name]*

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Monitors	NOTE S
Heart Rate	
NIBP	
Temperature	
Oxygen Saturation	
Respiratory Rate	
Apgar Scores	

Equipment / Supplies	NOTES
UAC, UVC kits	
Baby Linens	
Pedi Ambu Bag	
Neonate Code Cart (et tubes, bag, laryngoscopes w/ blades)	
Neonate Drugs (epi)	
Suction	
Towels	
O2	

Additional Setup/Environmental Notes:
<ul style="list-style-type: none"> • Will need two bedside tables • Extension cords • Powerbox to power plug in equipment <p>Setup:</p> <ul style="list-style-type: none"> • Baby warmer • O2 wall with functioning blender • Spo2 probe • Blankets • Bulb syringe • Neo-puff with mask and BVM • 3.0 ETT • CO2 colorimetric device • Laryngoscope and O miller blade • 1 cc syringe • 3 cc syringe • 3 way-stop-cock • 1mg 1:10,000 Epi

Section 4: Prebrief

Prebrief Information

- Welcome (Restrooms, pagers, cell phones, time line)
- Purpose of Simulation
- Video / Photo Release (if applicable)
- Confidentiality and Safe Learning Environment
- Mannequin Features
- Embedded Simulation Persons
- Fiction Contract
- Debriefing
- Basic Assumption
- Safety Phrase
- Questions from learners

Scenario Stem for Learner

Baby Tori

At delivery baby is limp and unresponsive. There is no meconium. Baby has poor tone and is blue. Baby weighs 3.3 kg (7.26 lb) Term delivery.

Upon Delivery Baby has low apgar scores, limp, and unresponsive requiring resuscitation.

1 point for flexed arms and legs
1 point for HR below 100 bpm
0 point for grimace
0 for appearance
0 for respiration
= INITIAL APGAR is 2

Have APGAR SCORE chart in hand.

Activity (muscle tone)
Pulse
Grimace
Appearance
Respiration



Section 5: Scenario Information

Summary plot of scenario for director or facilitator

Baby Tori

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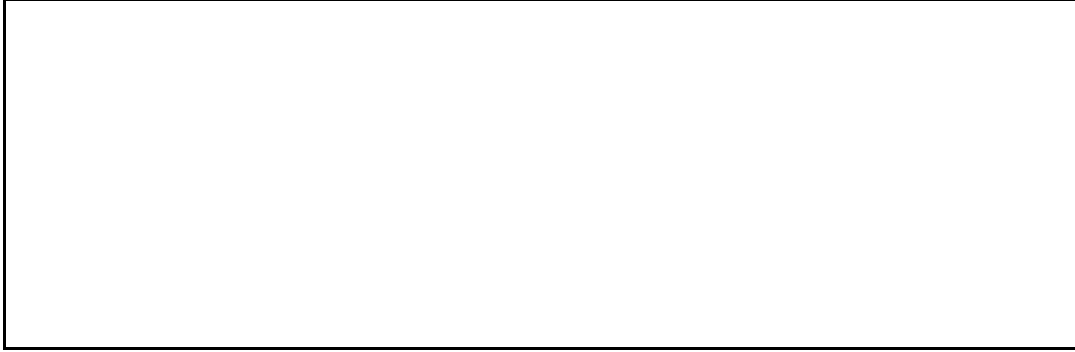
Commented [WML(1): Insert concerning apgar scores

Patient history for voice operator (mannequin only): Anything that should come up in a basic history and physical assessment should be listed here for the voice operators to quickly and accurately refer to.

Name/Age/DOB: Baby Tori

Patient Case Progression: initially limp, pink up, responsive VS after intubation

Other Pertinent information:



Scenario Progression:
Baby Tori

Baseline: At 1 MIN				Time: 1-2 mins				Lung	Sounds	
HR	Rhythm	BP	O2 Sat	RR	Pulses	Temp	Eyes		Heart	Bowel
40	Sinus brady		58%	apneic	present	36.5F	closed	clear	brady	
Patient vocalizations: not crying, no meconium, minimal resp effort										
Expected learner actions: - Dry & warm - Position airway - Consider suctioning (mouth then nose) - Stimulate										
Operator notes/prompts: (The simulator will need to be on to create chest rise with the BVM. For this reason, it is NOT recommended to run this case with the simulator off).										
Transition to next state: once they begin positive pressure ventilation										

State 1:				Time:				Lung	Sounds	
HR	Rhythm	BP	O2 Sat	RR	Pulses	Temp	Eyes		Heart	Bowel
52	Sinus brady		72%	apneic			closed			
Patient vocalizations: poor tone, limp, not crying										
Expected learner actions: -check HR (below 100) -Continue stimulation (slaps foot, flicks heel, or rubs back) -Provide PPV with appropriately sized mask --Consider intubation/SpO2 monitor										
Operator notes/prompts:										
Transition to next state: once intubated or chest compressions start										

State 2:				Time:				Lung	Sounds	
HR	Rhythm	BP	O2 Sat	RR	Pulses	Temp	Eyes		Heart	Bowel
48	brady		72%				eyes			
Patient vocalizations: not crying										
Expected learner actions: -Chest Compressions -Intubate (if not already done) -Consider emergency UVC (umbilical venous catheter)										

State 3:				Time:				Sounds		
HR	Rhythm	BP	O2 Sat	RR	Pulses	Temp	Eyes	Lung	Heart	Bowel
50	brady		72%				eyes			
Patient vocalizations: not crying										
Expected learner actions: Consider or give epi										
Operator notes/prompts: Transition to next state: transition to next state once intubated and considered or given epi.										

State 2:				Time:				Sounds		
HR	Rhythm	BP	O2 Sat	RR	Pulses	Temp	Eyes	Lung	Heart	Bowel
120 bpm	sinus		98%	38			eyes			
Patient vocalizations: Begins to Cry										
Expected learner actions: -plan for next steps -transfer of care										
Operator notes/prompts: Transition to next state: END SCENARIO										

Section 6: Embedded Simulation Persons (ESP)

ROLE	Simulated Name	NOTES
Nurse	Mercedees	Helpful, give information- however you are unsure of where things are as you are a traveler.

Scenario Description, Background, Progression for ESP
Baby Toni At delivery baby is limp and unresponsive. There is no meconium. Baby has poor tone and is blue. Baby weighs 3.3 kg (7.26 lb) Term delivery. Upon Delivery Baby has low apgar scores, limp, and unresponsive requiring resuscitation.

Commented [WML(2)]: Insert concerning apgar scores

Role-specific ESP Information:

ROLE:	Information, Frames, Cues, Phrases
Apgar Scores— Initial Score is 2 (points for activity and pulse)	
Color-blue	
VS- brady and apneic	

Section 7: Debriefing Plan

REACTIONS: The purpose of this section is to clear the air so a learning conversation can occur. Try to tie reactions to learning objectives you plan to cover. Try to frame in emotions. **NOT WHAT DID YOU THINK, How do you feel?**

FACTS: Give basic facts of case so learners don't spend debriefing time debating or wondering what was going on with patient. More advanced learners can give report. This should be no more than 3 sentences, brief facts of the case.

PREVIEW: In one or two sentences, give learners preview of the main topics you will cover in debriefing. These can be broad such as communication, patient safety, and management of SVT or they can be specific such as recognizing signs and symptoms of pancreatitis and understanding resources related to new diagnosis of HIV. Purpose is to let learners know where you are headed.

UNDERSTAND & EXPLORE: Choose one, or a combination, of the following methods based on the amount of time available for debriefing, experience level of the debriefer, level of expertise of the learners, and reactions the learners shared in the reactions phase: A/I, +/-Δ, or Advocacy/Coach. Be sure to preview every time you move to the next objective or topic.

UNDERSTAND & EXPLORE: Choose one, or a combination, of the following methods based on the amount of time available for debriefing, experience level of the debriefer, level of expertise of the learners, and reactions the learners shared in the reactions phase:

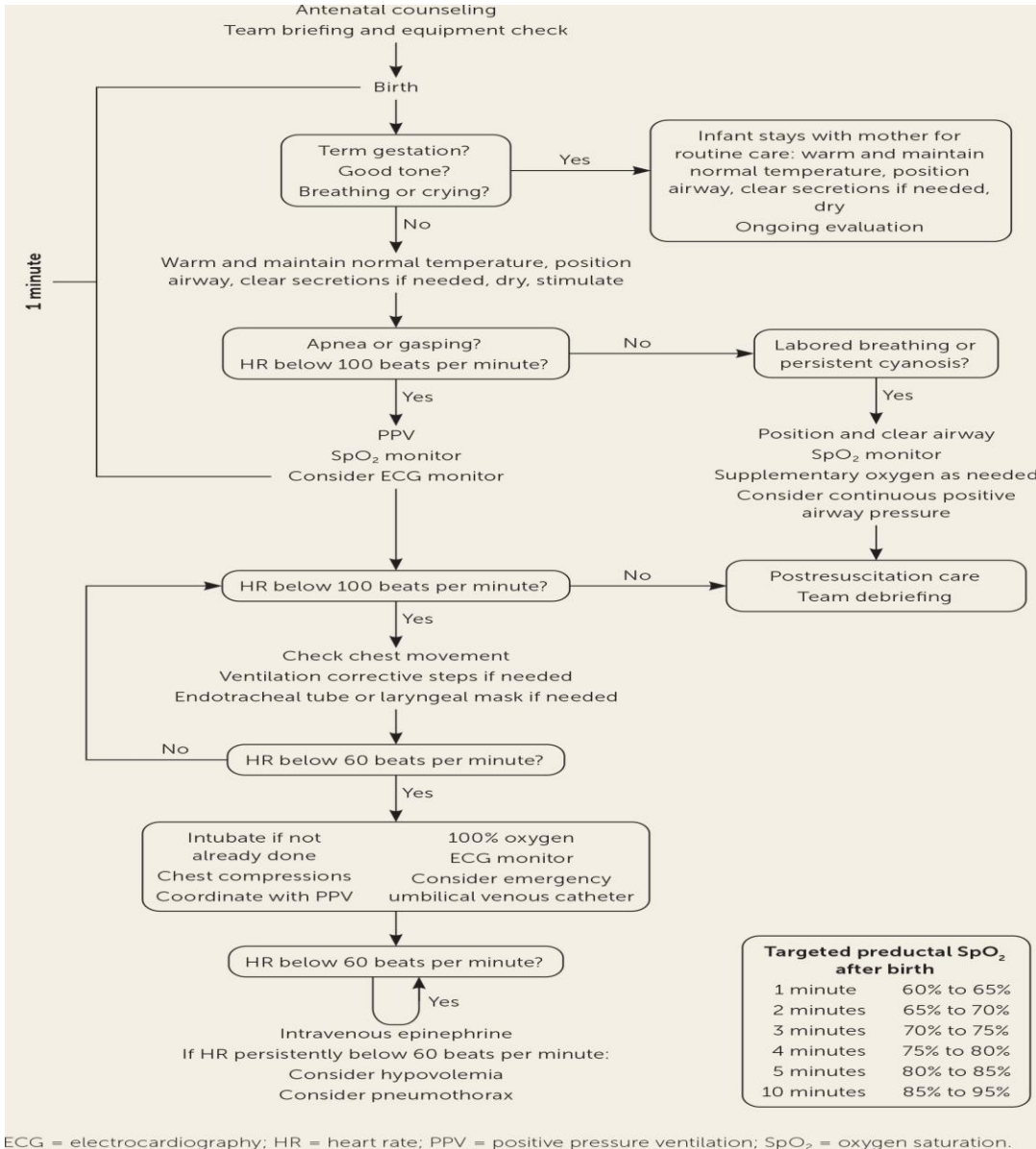
SUMMARY: Ask learners to summarize their "take-aways."

Section 8: Facilitator Information

Basic Science, Clinical Information, or other Background that will be helpful for facilitator/debriefer

Apgar Scoring System

Indicator		0 Point	1 Point	2 Points
A	Activity (muscle tone)	Absent	Flexed arms and legs	Active
P	Pulse	Absent	Below 100 bpm	Over 100 bpm
G	Grimace (reflex irritability)	Floppy	Minimal response to stimulation	Prompt response to stimulation
A	Appearance (skin color)	Blue; pale	Pink body, Blue extremities	Pink
R	Respiration	Absent	Slow and irregular	Vigorous cry



ECG = electrocardiography; HR = heart rate; PPV = positive pressure ventilation; SpO₂ = oxygen saturation.

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