Firelands Regional Medical Center

School of Nursing

Student Developed Simulation Scenarios

Directions: Students will be required to develop a scenario on a chosen topic related to the Maternal Child Nursing content taught throughout the semester. Faculty will be implementing the student developed scenarios on the day of the scheduled simulation. Students will be expected to perform a scenario in the simulation center that was developed by one of their classmates on the day of the simulation. Students will sign up to be in a group of 3-4 to develop a simulation scenario on the assigned topics. Please only include skills in the scenario that students have been taught in the curriculum already.

The scenario should be should be roughly 15 minutes in length. Students should use the attached storyboard and patient chart to develop their scenario. The group will need to submit the completed storyboard by **October 28, 2024 by start of class** via the Student Developed Scenarios dropbox. You are required to wear your student uniform the day of the simulation. A group meeting with your assigned faculty will be at the beginning of the semester on **September 9, 2024**. A mid-semester checkpoint will be at week 7 (**October 7, 2024**) of the course. The first page of the document will be required to be turned in at the beginning of class. Faculty will review your submission and will contact you. You should not proceed with completing the remainder of the document until contacted by your assigned faculty.

Students will vote on the best Student Developed Scenario and the chosen team will receive a prize.

During the debriefing process students will be expected to provide constructive feedback to their fellow students. Please be kind and considerate. Remember this is constructive feedback and not criticism. All students are expected to actively participate in the group debriefing.

The activity requirements and grading rubric are below. To be satisfactory for this experience you will need to score at least 77%. For any student not attending the day of simulation, credit will not be granted for the simulation time and will follow the Student Accountability Flow Sheet. This experience is worth 4 hours of simulation. Remember any missed simulation time needs to be made up hour for hour.

	Student Developed Simulation Scenario Rubric	Points	Total
1	In your group, develop a simulation scenario related to the assigned topic.	8	
2	Develop 2 questions to ask in debriefing related to your developed scenario. Questions should be specific and not simply what did you do well and how could you improve.	8	
3	Develop 2 questions NCLEX style questions with rationale related to the content in your developed scenario.	8	
4	Be creative and highlight the essential information to know about the assigned topic on the storyboard.	8	
5	Incorporate the core values of caring, diversity, excellence, integrity, and “ACE”- attitude, commitment, and enthusiasm throughout the group process.	8	
6	Complete initial meeting with assigned faculty on **September 9, 2024**.	12	
7	Mid-semester checkpoint with faculty on **October 7, 2024**. (Page 1 document to dropbox by 0800. Meet with assigned faculty after class.)	12	
8	Completed Storyboard submitted to the Student Develop Simulation Scenarios Dropbox on Edvance360 by **October 28, 2024 at start of class.**	13	
9	Actively participates throughout the entire process (Development/day of simulation) including being present on the day of the Student Developed Scenarios **November 19, 2024**.	23	

	Total	100	

Student Developed Simulation Scenario Storyboard EXAMPLE	
Identified Problem/Scenario Topic and Related Resources: Post-Operative Respiratory Depression Textbook Chapter 13	**Desired Overall Goal:** **1.** Recognize Respiratory Depression **2.** Correctly identify cause **3.** Intervene appropriately **4.** Effective ventilation returns
Case Summary: 68 year old female patient just transferred from PACU to medical-surgical unit in stable condition following a right total knee replacement. She begins to have decreased LOC, falling respiratory rate and depth, decreased O2 sats.	**Expected Interventions of Students:** **1.** Receives bedside report **2.** Begins post-operative assessment **3.** Connects equipment **4.** Notices decreased O2 sats, decreased RR & depth, decreased LOC **5.** Changes nasal cannula to mask **6.** Increases O2 liter flow & reassesses **7.** Calls for help (Rapid Response Team) **8.** SBAR communication **9.** Administers Narcan & reassesses **10.** Communicates effectively with family throughout
Supplies: **1. SimMan** **2. Nasal canula** **3. O2 mask** **4. Morphine 5mg/1mL injection** **5. Narcan 10mg/5mL injection (x2)** **6. NS @ 125 IV** **7. IV pump**	
NCLEX Questions **1.** **a.** **b.** **c.** **d.** **Answer:** **2.** **a.** **b.** **c.** **d.** **Answer:**	

Case Flow (15-20 Minute Simulation Time) EXAMPLE

Initiation of Scenario:

Case Study:
Patient in bed-hand off received.
Patient in stable condition with reported pain level 2/10 after general anesthesia
Patient received 3 doses of IV Morphine

Vital Signs	**T**	**98.0**	**HR**	**88**	**RR**	**16**	**BP**	**140/82**	**SPo2**	**98% on 2L**	**Pain**	**2/10**	**BS**	**NA**
Cardiac	WNL													
Respiratory	Clear lung sounds													
Neuro	WNL													
Skin	WNL													
GI	WNL													
GU	WNL													
Other	Right knee surgical site surgical site dressing D&I,													

First Frame:

Case Study:
Nurse introduces self and begins assessment.
Patient is responsive at first.
Vital signs begin to change with decreased O2 sats, decreased RR & depth, decreased LOC

Vital Signs	**T**	**98.0**	**HR**	**58**	**RR**	**10**	**BP**	**100/54**	**SpO2**	**88% on 2L**	**Pain**		**BS**	
Cardiac	Heart rate regular and starts to become bradycardic													
Respiratory	Respirations slow, shallow, and regular, Lung sounds clear													
Neuro	Pt becomes unresponsive as assessment continues													
Skin	Pale, warm, and dry													
GI	WNL													
GU	WNL													
Other	NA													

Second Frame

Case Study:
Change O2 from NC to mask
Reassess-no change
Primary nurse calls for help (RRT)

Gives SBAR to RRT

Vital Signs	**T**	**98.0**	**HR**	**58**	**RR**	**10**	**BP**	**100/54**	**SpO2**	**94% on 6L per mask**	**Pain**	**NA**	**BS**	**80**
Cardiac	Heart rate regular, bradycardic													
Respiratory	Respirations slow, shallow, and regular, Lung sounds clear													
Neuro	Pt unresponsive													
Skin	Pale, warm, and dry													
GI	WNL													
GU	WNL													
Other	NA													

Third Frame

Case Study:
RRT responds with Narcan
Checks order
Identifies and assesses patient
Administers per order, titrating dose

Reassesses

Vital Signs	**T**	**98.0**	**HR**	**76**	**RR**	**16**	**BP**	**122/62**	**SpO2**	**98% on 6L per mask**	**Pain**	**NA**	**BS**	**80**

Cardiac	WNL
Respiratory	Respirations regular rate and depth, Lung sounds clear
Neuro	Pt becomes A/O x 3 as medication starts to work
Skin	Pink, warm, and dry
GI	WNL
GU	WNL
Other	NA

Scenario End Point

Case Study:
Patient responds to Narcan
Nurses communicate with patient and family

Vital Signs	**T**	**98.0**	**HR**	**76**	**RR**	**16**	**BP**	**122/62**		**98% on 6L per mask**	**Pain**	**5/10**	**BS**	**80**

Cardiac	WNL
Respiratory	Respirations regular rate and depth, Lung sounds clear,
Neuro	A/O x 3
Skin	Pink, warm, and dry
GI	WNL
GU	WNL
Other	NA

Debriefing Questions:

1. What did you notice regarding the patient's respiratory assessment?

2. What interventions did you perform related to concerns you noticed in the patient's assessment?

Student Developed Simulation Scenario Storyboard

Identified Problem/Scenario Topic and Related Resources:

Newborn Hyperbilirubinemia

Linnard-Palmer Chapter 17

Desired Overall Goal:

1. Recognize newborn has increased bilirubin levels.
2. Identify newborn requires phototherapy.
3. Monitor infant's temperature throughout therapy.
4. Explain possible reasons for pathological jaundice.

Case Summary:

24 hour old male infant is transferred to the nursery for morning assessment. Infant was born at 36 weeks after an extended labor. APGAR score at 1 minute was 6, after 5 minutes was 8. During assessment, nurse recognizes yellow pigmentation to infant's body.

Supplies:

1. Sim Baby
2. Parent
3. Phototherapy
4. Eye shield
5. Thermometer

Expected Interventions of Students: (Minimum of 5 required.)

1. Receives bedside report.
2. Begins assessment of newborn.
3. Notices jaundice appearance.
4. Notifies HCP and requests labs to be drawn.
5. Receives lab results and recognizes that total bilirubin is 15 mg/dL, a high risk value
6. Places infant under phototherapy, covering eyes and genitals
7. Monitor infant's temperature
8. Communicates effectively with parents about infant's condition throughout

NCLEX Questions

1. A nurse is reviewing a 24 hour old infant's labs and sees that the bilirubin level is 15 mg/dL. The nurse recognizes that…
    a. This is a normal range of bilirubin.
    b. The newborn has a low risk level of bilirubin.
    c. The newborn requires phototherapy.
    d. The newborn will require a blood transfusion in the NICU.

    Answer: C. The newborn requires phototherapy.

2. One risk factor for pathological jaundice is
    a. Post-term birth
    b. Extended labor
    c. Breastfeeding
    d. Small for gestational age infant

    Answer: B. Extended birth

Case Flow (15-20 Minute Simulation Time)

Initiation of Scenario:													
Case Study: Pt in crib. Hand-off report received. Pt is 24 hour old male. Delivered vaginal after extended labor.													
Vital Signs	**T**	98.4	**HR**	142	**RR**	36	**BP**		**SpO2**	98%	**Pain**	N/A	**BS**	N/A
Cardiac	WNL													
Respiratory	WNL													
Neuro	WNL													
Skin	Yellow appearance to face. Bruising to face.													
GI	Passed meconium stool.													
GU	Having wet diapers.													
Other	N/A													
First Frame:													
Case Study: Nurse introduces self and begins 0800 assessment.													
Vital Signs	**T**	98.2	**HR**	150	**RR**	42	**BP**		**SpO2**	98%	**Pain**	N/A	**BS**	N/A
Cardiac	WNL													
Respiratory	WNL													
Neuro	WNL													
Skin	Increased jaundice to body.													
GI	WNL													
GU	WNL													
Other	N/A													
Second Frame													
Case Study: Call health-care provider to update on increased jaundice. Order placed for total serum bilirubin. Educate mother that hyperbilirubinemia can occur due to excessive bruising from extended labor.													
Vital Signs	**T**	98.4	**HR**	148	**RR**	38	**BP**		**SpO2**	97%	**Pain**	N/A	**BS**	N/A
Cardiac	WNL													
Respiratory	WNL													
Neuro	WNL													
Skin	Jaundice													
GI	WNL													
GU	WNL													
Other	N/A													
Third Frame													
Case Study: Total Bilirubin Level: 15mg/dL Place infant under phototherapy with eyes and genitals covered.													
Vital Signs	**T**	98.2	**HR**	154	**RR**	48	**BP**		**SpO2**	97%	**Pain**	N/A	**BS**	N/A
Cardiac	WNL													
Respiratory	WNL													

Neuro	WNL
Skin	Jaundice
GI	WNL
GU	WNL
Other	N/A

Scenario End Point

Case Study:
Monitor temperature
Monitor I&Os
Educate mother on importance of feeding and monitoring urinary and GI output so bilirubin can be excreted.

Vital Signs	**T**	97.8	**HR**	138	**RR**	34	**BP**		**SpO2**	99%	**Pain**	N/A	**BS**	N/A

Cardiac	WNL
Respiratory	WNL
Neuro	WNL
Skin	Less jaundice appearance.
GI	WNL
GU	WNL
Other	N/A

Debriefing Questions:

1. **Why is it important to monitor I&Os and encourage regular feedings?**

2. **What puts newborn at risk for pathological jaundice?**

Patient Report:

Rubin High is a 24 hour old male. He was born at 36 weeks after an extended labor. APGAR score at 1 minute was 6, after 5 minutes was 8. Pt has bruising to his face and appears to be jaundice in the face.

Additional information, Medical History:

Patient data:

DOB: 10/28/2024

MR#: M000123456

Prior medical history: Born at 36 weeks gestation.

Allergies: NKDA

Social history:

Firelands Regional Medical Center
Sandusky, Ohio
Physician's Orders

NAME: Rubin High.	STATUS: SIGNED
DATE ORD: XX/XX/XX	ROOM: 3301
ORD PHYS: Smith	MR# M000123456
ATTENDING: Smith	DOB: 10/28/2024
AGE: 1 day.	DATE: XX/XX/XX

Date/Time	
XX/XX/XX	Admit to: Nursery
	Diagnosis: jaundice
	VS: Q4H
	Activity: N/A
	Diet: breastfed
	I&O
	IV: N/A
	Medications: N/A
	Other: N/A
	Dr. _____

√	Start	Medication	Dose	Next Sched ↓	History	Assoc
	Stop		Route	Ack	Monograph	Asmnt
	Current Status		Frequency	Adjustment	Co-sign	Ref Err
	xx/xx/xxxx					

	xx/xx/xxxx					
	Active					
	xx/xx/xxxx					
	xx/xx/xxxx					
	Active					
	xx/xx/xxxx					
	xx/xx/xxxx					
	Active					
	xx/xx/xxxx					
	xx/xx/xxxx					
	Active					
	xx/xx/xxxx					
	xx/xx/xxxx					
	Active					
– –	Label Comments					
	xx/xx/xxxx					
	xx/xx/xxxx					
	Active					
– –	Label Comments					

	Administer	Admin Comments	Non-Admin Reasons	Acknowledge	Undo	Admin Schedule	View Order	+/- Admin Instructions	Additional Functions	Display Options	

Firelands Regional Medical Center
Sandusky, Ohio
LABORATORY

NAME: _____	STATUS: SIGNED
DATE ORD: XX/XX/XX	ROOM: _____
ORD PHYS: _____	MR# _____
ATTENDING: _____	DOB: _____
AGE:___years old	DATE: XX/XX/XX

HGB/HCT	**XX/XX/XX Admission**	**Reference Range**
HGB		
HCT		

CMP	**XX/XX/XX Admission**	**Reference Range**
Na		
CL		
K		
BUN		
Creatinine		
Blood Glucose		
Blood pH		

URINALYSIS	**XX/XX/XX Admission**	**Reference Range**
pH		
Specific Gravity		
Glucose		
Protein		
Blood		
Ketones		
Nitrite		
Leukocyte esterase		
Clarity		
Color		

Total Serum Bilirubin: 15 mg/dL

Firelands Regional Medical Center
Sandusky, Ohio
IMAGING DEPARTMENT

NAME: _____	STATUS: SIGNED
DATE ORD: XX/XX/XX	ROOM: _____
ORD PHYS: _____	MR# _____
ATTENDING: _____	DOB: _____
AGE:___years old	DATE: XX/XX/XX

CLINICAL DATA/Reason for Test:

X-ray:

IMPRESSION: