

APPENDIX N: SIMULATION SCENARIO: HYPERTENSION IN PREGNANCY, HELLP WITH SEIZURE

## Simulation: HELLP with Seizure

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Topic: Hypertension in Pregnancy Scenario: HELLP with seizure

Duration of Scenario: 6 - 13 min

General Description of the Scenario:

Jackie is a 17 yo G1P0 @ 36 weeks by sure normal LMP. She came to triage accompanied by her sister after beginning uterine contractions 8 hours ago, that have been increasing in intensity and frequency. The contractions are every 3-4 minutes, lasting a minute. Jackie complains of a strong headache beginning 2 days ago. The baby is moving less than before labor began. She was admitted for labor 4 hours ago with V/E 4cm, 70%, -2 station.

Brief Medical/OB History:

- Regular visits, no chart available
- Fundal height = 34
- Admit labs: hgb 9.2, hct 30, platelets 90,000

### Objectives:

### Cognitive:

- 1. Accurately identify risk factors for severe preeclampsia/HELLP
- 2. Identify the differential diagnosis for eclampsia
- 3. Identify medications to be used in managing an eclamptic seizure
- 4. Know the steps in management eclampsia

### Technical:

- 1. Provide protection from injury and patent airway during seizure
- 2. Evaluate for interval to delivery
- 3. Evaluate fetal status
- 4. Prepare for fetal resuscitation and potentially postpartum hemorrhage

### Behavioral:

- 1. Calls for help in a timely manner
- 2. Communication with team
- 3. Maintains a calm demeanor during the emergency
- 4. Clear communication with the frightened family members

### Roles of the participants:

RN, CNM, extra RN, obstetrician,

- Facilitator taps out fetal heart rate
- MD is slow to come in after being called- doesn't intervene or direct but does ask what is happening

Roles of the Confederates:

• Patient in PartoPants©, Significant other

Equipment: Partopants, bed, sheets, footstool, baby, IV pole/set/fluid, Doppler or fetoscope, delivery set, Simulator: Actress as Patient with PartoPants Opening scene: Mother is laboring with \_\_\_\_\_





# Progression of Scenario

Time	Events for Actress and Confederates	Appropriate Actions	Symptoms/Results of inappropriate action
0-5 min	Patient <b>(IV in place)</b> ; midwife/OB RN and significant other in room Patient in labor with ctx q3 min FHR 120's Pt begins to seize at about 5 minutes into scenario - seizure lasts 90 seconds	Clean hands Begins assessment: talks with patient Requests vital signs Asks about urine and proteinuria May ask for additional labs	Initial vitals 138/89 P=110 No pain meds given yet No proteinuria Vaginal exam if done 8 cm, 100 % 0 station BP stays in this range - never severely elevated
4/5- 10 min	Fetal bradycardia to 80 BPM for 3 min begins with seizure and lasts 3 min Seizure resolves Sister asks what is happening	May turn mom into side- lying Notes FHR Pt turned to L side, O2 on Mag. sulfate ordered: 4-6 gm IV over 15 minutes or 5 gm IM in each buttock if no IV No BP meds since BP is not elevated	If no Mag. ordered by 2 min postictal, another seizure begins- this should be treated with MgSO4, diazepam ok, but NOT optimal
	FHR 160's then back to normal Pt is postictal/sleepy Pt involuntarily pushes	Calls for help Evaluates FHR Gives accurate concise report to attending	
		Vaginal exam	STOP SCENARIO





# Guide for review of simulation:

(Remember to focus on cues from the video; these are only triggers for discussion.) **General:** 

- **1.** How did that feel?
- 2. Would someone give an overview of the scenario?
- 3. What did you see?
- 4. What went well?
- 5. What didn't?
- 6. Was there anything in the **10 commandments** that would've helped you? (Translated and modified with permission from CAPE, Center for Advanced Pediatric and Perinatal Education (CAPE) 2007; Anderson et al., 2006. Ten Commandments of Simulation: 1) know your environment; 2) anticipate and plan for crises; 3) assume a leadership role; 4) communicate effectively; 5) distribute workload optimally; 6) allocate attention wisely; 7) utilize all available information; 8) utilize all available resources; 9) call for help early enough; 10) maintain professional behavior.)

## Cognitive:

- 1. What were you thinking when you heard about the report?
- 2. What are the risk factors for pre-eclampsia/severe and HELLP?
- 3. What are the signs and symptoms of HELLP?
- 4. What labs would help to evaluate this pt?
- 5. What other emergencies/complications follow eclampsia (PPH, neonatal compromise)?

## **Technical:**

- 1. What should be done to protect the patient?
- 2. What are the components of intrauterine resuscitation?
- 3. What are the medications to be used in eclampsia with severe HTN?

## Behavioral: Focus on 2-3 points

- 1. Know your environment and team
- 2. Plan and anticipate
- 3. Assume the role of leader
  - a. Who was the leader?
  - b. How did that go? (ask leader and participants)
- 4. Communicate in an effective manner with the team, the patient and her family
  - a. How was the interaction between the midwife/OB and nurse?
  - b. How was the communication with the patient?
- 5. Delegate appropriately
- **6.** Allocate attention wisely
- 7. Use all your available resources
- 8. Use all your available information
- 9. Call for help in a timely manner
  - a. What made you call for help?
- **10.** Maintain professional conduct/attitude at all times.

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