

## 3. Eclampsia Simulation Scenario Overview

### SCENARIO OVERVIEW

Name of Scenario: **Eclampsia**

Target Trainees:  
**MDs, RNs, CNMs, PAs**

Anticipated Duration:  
**10 min**

#### PATIENT DESCRIPTION:

41 yo G1 Po at 38 weeks comes to triage complaining of headache. Patient is in a gown, sitting on a bed, no monitors attached, holding head. Blood Pressure 140/90, reassuring fetal status, 4 cm dilated. Patient seizes during initial evaluation.

#### HISTORY:

Prenatal care has been uncomplicated.  
BP elevations during the last 2 visits.

**Medical** — healthy

**Surgical** — none

**Social** — non-contributory

#### BASELINE LAB VALUES:

N/A

### LEARNING OBJECTIVES

#### COGNITIVE:

Patient assessment (relevant history, symptoms, fetal well being, Vital Signs, preeclampsia labs)

Emergency recognition

Eclampsia management (awareness of appropriate medication administration with correct dose/route/timing)

Assessment of fetal well being

Delivery plan formulation

#### TECHNICAL:

Patient positioning

Oxygen request and administration

#### BEHAVIORAL:

SBAR communication

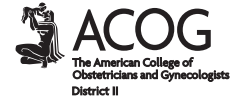
Demonstrates leadership and followership

Calls for appropriate assistance

Uses closed loop communication



# Safe Motherhood Initiative



## SCENARIO SET-UP

### ROOM CONFIGURATION:

Evaluation Unit

### EQUIPMENT:

Exam table or Labor bed

IV pole, IV tubing, IV bag

Opsites

Covered needles

Magnesium sulfate premixed bag

Magnesium sulfate 1 gm 50% ampoule

Syringes with labels for Valium, Ativan, Phenytoin

Lab tubes for CBC, chem., lft, uric acid, type and screen

Foley

Oxygen tank

Oxygen facemask

Pulse oximeter

Blood pressure cuff

### MANIKIN/TASK TRAINER PREPARATIONS:

Pregnancy pillow

Seizure activity for 2-4 minutes

Postictal state for the remainder

### PRESETS:

Control of vital signs monitor and fetal heart rate monitor (NOELLE monitor preset)

### SIMULATOR:

A standardized patient actor

### Patient Monitor:

Display of simulated maternal vital signs and fetal heart rate monitoring (NOELLE)

### Equipment set up:

Routine NOELLE monitors set up

### MISCELLANEOUS:

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### CHART CONTENTS:

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### DEMONSTRATION ITEMS NEEDED IN DEBRIEFING ROOM:

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## SCENARIO LOGISTICS

### EXPECTED INTERVENTIONS:

Initial problem-oriented history acquisition  
Fetal heart rate monitoring placement  
Request for VS, IV, Foley, labs  
Request for Help  
Lateral positioning  
Oxygen administration  
Request for magnesium sulfate administration with dose/route/ time of bolus and maintenance  
Delivery plan formulation

### LIKELY PROGRESSION:

Seizure until administration of magnesium sulfate  
Postictal state with fetal heart rate deceleration for 5 minutes  
Maternal stabilization with progression to delivery

### EXPECTED ENDPOINT:

Stable maternal status  
Vaginal delivery for fetus

### DISTRACTERS:

Offer to administer 6 gm concentrated magnesium sulfate (1 gm vial, 50 %) IV by confederate (inexperienced RN)

### ADDITIONAL/OPTIONAL CHALLENGES:

Questioning delivery plan in anticipation of bradycardia and unstable or stable maternal condition by confederate (inexperienced RN)

### VIDEOTAPE GUIDELINES

(Priorities to capture on videotape)

### Confederate Roles

#### Inexperienced RN:

- Calls in RN for help in evaluation of a triage patient
- Asks to explain every step — why, what, how much, over how long if information is not volunteered by RN/MD
- Offers undiluted magnesium sulfate IV (show the vial) before getting premixed bag
- Asks for exact IV, IM magnesium dosing/route/ timing if not offered
- Asks about delivery plan in anticipation of continuing bradycardia and stable versus unstable maternal signs

### Trainee Roles

Labor and delivery Evaluation Unit Nurse Delivering provider (MD, PA, CNM)

## SCENARIO LOGISTICS *continued*

### Debriefing Points

(Based on Eclampsia Drill Score Sheet)

#### COGNITIVE:

Patient assessment

Recognition

Eclampsia management

Fetal assessment

Delivery plan

#### TECHNICAL:

Medication administration

Oxygen administration

Positioning

#### BEHAVIORAL:

Help request

**Team communication:** SBAR

**Situation:** expression urgency when called for help

**Background:** conveys relevant information only

**Assessment:** states problem without prompt

**Requests:** states clear, concise requests without prompt

Closed loop communication

## SCENARIO SUPPORT MATERIALS

Multiple Choice Questions

Eclampsia Drill Score Sheet



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Adapted and used with permission from Montefiore Medical Center, 2014.

#### Reference List:

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