



**Helping Mothers Survive  
Pre-eclampsia & Eclampsia  
OSCE 1: Administering the loading dose of MgSO<sub>4</sub>**

**Guidelines to be read to participants:**

- For each station assume you are on the labor ward in a health care facility. You have all equipment and supplies necessary for a normal vaginal birth and for basic emergency management.
- All essential information will be provided to you at the start of each OSCE station.
- Ask the evaluator to clarify any questions prior to beginning. Once the OSCE has started, the evaluator will not provide any further information.
- You will have 8 minutes to complete OSCE 1 and 4 minutes for OSCEs 2 and 3.
- Talk to and care for the woman in front of you exactly as you would in real life.
- Be explicit in verbalizing your clinical thinking and subsequent decisions.
- If you give a medication, you must state what you are giving, the dose, the route, and why you are giving it.

## Administering the loading dose of MgSO<sub>4</sub> – Skill Check

### Instructions for the examiner

- **Start with these supplies prepared and accessible to the participant:** alcohol hand rub, exam gloves, at least three 20 mL syringes, sterile water for injection or normal saline IV bag, 16, 1g/2mL ampules of MgSO<sub>4</sub>, 1 ampule 2% lignocaine, simulator for injection (small melon or other fruit), sharps container.
- **Read prompts in *italics* but do not intervene in demonstration of the participant.**
- **The feedback will be held at the end of the assessment for all learners.**

**Read the following to the learner:** *Mrs. B has just presented to you at 38 weeks with a bad headache unrelieved by analgesics. You took her BP and it was 154/96 and she has 2+ protein per dipstick. You have called a nurse who came with these supplies and started an IV with normal saline. Demonstrate and verbalize what you would do next.*

## Helping Mothers Survive Pre-eclampsia/Eclampsia OSCE 1: Administering the loading dose of MgSO<sub>4</sub>

Participant ID# \_\_\_\_\_ Date \_\_\_\_\_

Is this a pre-training or post-training assessment? (Circle one.)      a. PRE      b. POST

	Checklist of skills	<u>Yes</u> Performed to standard	<u>No</u> Did NOT perform to standard
		Check appropriate box for each item	
1.1	<b>Ask:</b> <i>What is the diagnosis?</i> Severe pre-eclampsia		
1.2	Washes hands with soap and water or uses alcohol hand rub.		
1.3	States and draws up 12 mL of sterile water or normal saline from IV for injection.		
1.4	States, draws up MgSO <sub>4</sub> 50% solution 4g (1g/2ml x 4) and adds to the 12 mL of water or saline to make 20mL of 20% solution.		
1.5	<b>Ask:</b> <i>Please show and say how you would administer this medication.</i> Provider demonstrates injecting IV slowly.		
1.6	Explains to patient what she is receiving and why.		
1.7	<b>Ask:</b> <i>Over how long are you administering this dose?</i> 5- 20 minutes <b>State:</b> <i>The injection is complete. What will you do next?</i>		
1.8	States and prepares 2 syringes with: MgSO <sub>4</sub> 50% solution 5 g (1g/2ml x 5) + lignocaine 2% 1ml EACH		
1.9	Provider injects one syringe in each side of an object (fruit, box, or cup).		

Score \_\_\_\_\_/9

Pass / Fail (circle one)

Pass score for "Administering the loading dose of MgSO<sub>4</sub>" = 7/9