



**Helping Mothers Survive Pre-eclampsia/ Eclampsia
OSCE 3: Monitoring for MgSO4 toxicity and giving continuation dose**

Participant ID# _____ Date _____

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

Monitoring for MgSO4 toxicity and giving continuation dose of MgSO4 – Oral exam
Instructions for the examiner

- **Start with these supplies prepared and accessible to the participant:** alcohol hand rub, gloves, at least three 20 mL syringes, sterile water for injection or normal saline IV bag, 16, 1g/2mL ampules of MgSO4, 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 presented to you with visual changes, a BP of 154/96 and 2+ protein in her urine per dipstick. You diagnosed her with severe pre-eclampsia and gave her the initial loading dose of MgSO4. It has now been 4 hours since you gave that loading dose.*

Checklist of skills		<u>Yes</u> Performed to standard	<u>No</u> Did NOT perform to standard
		<i>Check appropriate box for each item</i>	
	Ask learner: <i>What will you check before you give the next dose of MgSO4 to be sure she is not having MgSO4 toxicity? Mark each of the following:</i>		
3.1	Ensure respiratory rate \geq 16 breaths per min		
3.2	Ensure patellar reflexes are present		
3.3	Ensure urinary output \geq 30 mL per hour averaged over preceding 4 hours		
3.4	Ask learner: <i>How often should you check for MgSO4 toxicity? (Every hour)</i>		
3.5	Ask learner: <i>How will you continue to give MgSO4? Please give dose, concentration, route, location, and frequency:</i> <ul style="list-style-type: none"> • 5g IM in alternate buttock every 4 hours OR • 1g/hr IV Learner may respond with either dosing regimen and be marked correct.		

	Ask learner: <i>What will you do if she stops breathing while on MgSO4?</i> Mark each of the following		
3.6	Shout for help!		
3.7	Assist ventilation with mask and bag.		
3.8	Give calcium gluconate 1 g (10 mL of 10% solution) IV slowly until respiration begins. Ask learner the route, solution and dose, if not offered		

Score _____/8

Pass / Fail (circle one)

Pass score for “Monitoring for MgSO4 toxicity and giving continuation dose” = 6/8