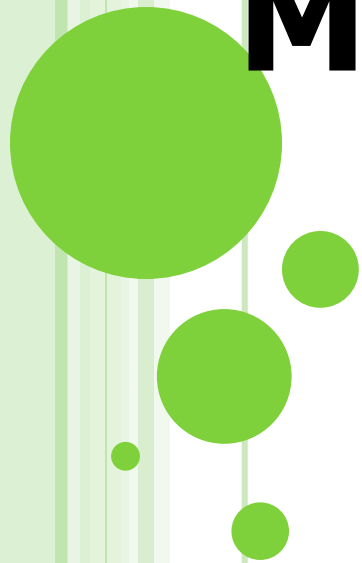


Administration of Magnesium Sulphate



INTRODUCTION

Magnesium sulfate is considered first-line treatment for the prevention of primary and recurrent eclamptic seizures.



MECHANISM OF ACTION

- It is thought to cause dilatation of cerebral blood vessels thus reducing cerebral ischemia.
- It is also thought that the magnesium blocks calcium receptors.
- produces a peripheral vasodilatation thus reducing the blood pressure.



Objective:

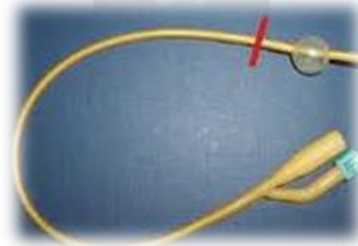
1. Prevent severe pre-eclampsia progressing to eclampsia (life-threatening convulsions).
2. Stop the convulsions of eclampsia.

Getting ready



PREPARE THE NECESSARY EQUIPMENT:

- Mgso4 ampules .
- IV Solution 1000mL Ringers Lactate for control.
- Urinary catheter.
- Calcium chloride (anti dote for mgso4)



PREPARE THE NECESSARY EQUIPMENT

- **IV tray / IV equipment:**

- *Patent iv site.*

- *Syringe.*

- *Cannula*

- *Cotton with alcohol.*

- *Adhesive tab.*

- **Intake and output chart**



1. Hand washing.



2. Prepare the necessary equipment and take it into the bed side table.

3. Explain the procedure to the mother.



- 2) Review patient chart to identify does of mgso4 ,
route of administration

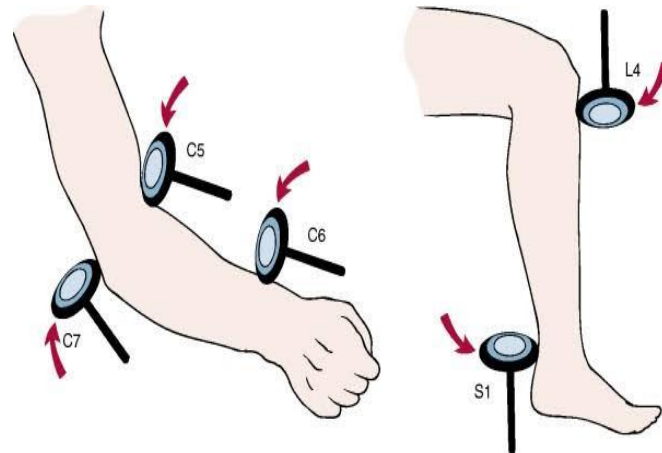
- 3) Assess doses of Mgso4 if it is **initial or loading dose**
(4-6 g given over for 15- 20 min) followed by
maintenance dose (2 g/h) as a continuous IV
solution.

- 4) Magnesium sulfate is initiated at the beginning of
the observation period and then continued during
labor and for at least 24 hours postpartum.



5) Assess signs and symptoms of mgso4 precautions:

- **Respiratory rate (not less than 12-16 cycles per minute).**
- **Deep tendon reflex (DTR) (normal +2).**
- **Urine output not less than 30ml / hr or 100ml / 4 hrs.**



Steps of administration of Mgso_4

1) Use IV line to evacuate 250 ML RL from 500 cc bottle.

2) Aspirate dose of Mg5o_4 from ampules and inject it in the IV solution.



Steps of administration of $Mgso_4$

3) Put label of $Mgso_4$ dose, route, time and rate.

4) Assess intake and out put.

5) Assess signs and symptoms of $Mgso_4$ toxicity
(**hotness, flushing, hypotension and hyperthermia**).

6) If toxicity occurs:

1- Stop medication.

2- Give plan saline.

3- Report the doctor immediately.

4- prepare the antidote to be ready for use.

Post administration of $MgSO_4$

- **Observe reaction of the mother.**
- **Record and report dose and time and any signs and symptoms of toxicity.**



THANK YOU

