

A decorative graphic on the left side of the slide consisting of white lines and circles on a blue gradient background, resembling a circuit board or a stylized tree structure.

# MIXING AND MONITORING FOR MAGNESIUM SULPHATE

## LOADING DOSE

Give a loading dose of 14g

10g of 50% intramuscularly – 5g on each buttock with 1ml of 2% lignocaine

4g of 20% intravenous

## MANTAINANCE DOSE

5g of 50% with 1ml of 2% lignocaine intramuscularly every 4hourly (Alternate buttocks) for 24hours or after delivery or from the time of the last fit which ever occurred last

**CHECK FOR TOXICITY BEFORE GIVE EVERY DOSE**

# HOW TO MAKE 20% OF MAGNESIUM SULPHATE

When using a 20ml syringe; Put 8ml (4g of 50%) in a syringe and add 12mls of water for injection

- When using 10ml syringe; get 2 syringes of 10mls, in each put 4mls (2g of 50%) and add 6mls of water for injection to each.
- When using 5ml syringe; get 4 syringes of 5mls, in each put 2mls (1g of 50%) and add 3mls of water for injection to each.

# MONITORING FOR MAGNESIUM SULPHATE

- Respiratory rate hourly –  $<16$  b/m indicate RD
- Deep tendon reflex regularly 1-2 hours
- Urine output hourly - 30ml/hour
- Level of consciousness – mental status and alertness
- Oxygen concentration
- Laboratory monitoring (advanced settings) – serum magnesium 2-3.5 mmol/L
- Electrocardiogram (ECG)
- **If toxicity present, stop magnesium sulphate**

# SIGNS OF TOXICITY

- Flushing, hypotension, nausea, sweating, vomiting
- Respiratory distress  $<12$  b/m, oliguria, loss of deep tendon reflex
- Bradycardia, severe hypotension, respiratory paralysis, arrhythmias & cardiac arrest

# INTERVENTION

- Calcium gluconate 1 gm (10ml of 10% solution) over 10 minutes
- Continue monitoring; respiratory, oxygen saturation, urine output
- ECG (for high risk patients to detect arrhythmias)

The background is a blue gradient with decorative white circuit-like lines in the corners. These lines consist of straight segments and small circles, resembling a stylized electronic circuit. There is also a single small white dot in the upper left area.

THANK YOU