

Drug: MAGNESIUM SULFATE INJECTION

Supplied as: 1 g / 2 ml (50%), 4 mEq / ml, 2 ml vial
 1 g of Magnesium Sulfate equals 98 mg or 8.12 mEq or 4.06 millimoles of elemental magnesium

Indication: Cardiac arrest

Suggested ACLS Guidelines:	Loading Dose: 1 to 2 g (8 to 16 mEq) IV push over 1 to 2 min (2 to 4 ml of 50% solution diluted in 10 ml D ₅ W) with extreme caution; may repeat after 5 min if no response.
	Maintenance Dose: 0.5 to 1 g / hour by continuous IV infusion. Consider alternate dosing according to patient response and serum magnesium levels.

Indication: Non-cardiac arrest (arrhythmias)

Suggested ACLS	Loading Dose: 1 to 2 g (2 to 4 ml of 50% injection) in 50 to 100 ml D ₅ W as an IV infusion over 5 to 60 min.
	Maintenance Dose: 0.5 to 1 g / hour by continuous IV infusion, depending on patient response and serum magnesium levels.

Indication: Pre-Eclampsia, Eclampsia, seizure prophylaxis:

Dosage:	Loading Dose: infuse 4 g over 20 to 30 min in severe eclampsia
	Maintenance Dose: 1 to 3 g / hr by continuous infusion.

Monitor: BP, HR, EKG, respiratory status, level of consciousness, reflexes and serum magnesium levels.

Comments: Significant side effects include respiratory depression, CNS depression, hypotension, AV block, prolonged PR and QT intervals, widened

Antidote: Calcium

MAINTENANCE INFUSION	
4 g in 100 ml sterile water (40 mg / ml)	
DOSE (g / hr)	Rate (ml / hr)
0.5	12.5
1	25
1.5	37.5
2	50
2.5	62.5
3	75
3.5	87.5
4	100

These guidelines serve to give dosage ranges and rates of administration. All clinicians are expected to be thoroughly familiar with the drugs mentioned herein.