

Magnesium Sulphate

Magnesium sulphate dosing may be weight based; ensure accuracy of documented weight before administration

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	CAI	JTION: High Admir	istration	Risk R	ating			
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Form		Magnesium Sulphate	50%	1g	2mL	4mmol Mg in 2ml (2mmol/mL)	L	
		Magnesium Sulphate	50%	5g	10mL	20mmol Mg in 10 (2mmol/mL))mL	
Reconstitution	Already in solution							
	Draw up using a 5 micron filter needle							
	Use gloves when opening ampoules MUST be further diluted before administration.							
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Compatibility &	Sodium Chloride 0.9%							
Stability		Glucose 5%						
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Administration	IV Injection - Resuscitation							
	Dilute 2-4m to 10mL with sodium chloride 0.9%.							
	Dose typically given over 10 -15 minutes, rate not exceeding 0.6mmol/min.							
	IV Infusion (Peripheral) – preferred method							
	Infuse via a volumetric infusion device at a rate appropriate to the indication							
	(usual max 1g/hour). Use lowest possible rate to avoid ADRs							
	Peripheral line: Usual maximum concentration 5% i.e. 5g (20mmol) in							
	at least 100ml							
		Dose	Volun	ne	Dilute in at least	Infusion time		
		1-2g (4-8mmol)	2-4mL		50mL	1-2 hours		
		2-4g (8-16mmol)	4-8mL		100mL	4-12 hours		
		4-8g (16-32mmol)	8-16m	L	250mL	12-24 hours		
	IV Infusion (Central) ITU only							
	Dilute 20mmol (10ml) in 100ml compatible fluid, and administer over one							
	hour.(local practice)							
Monitoring	Monitor BP, respiratory rate and urinary output.							
	 Use lowest possible rate to avoid bradycardia, flushing and hypotension. 							
	Rapid infusion may precipitate hypotension. Monitor for signs of							
		erdose- loss of patel						
	warmth, flushing, drowsiness, double vision, and slurred speech.							
Extravasation	Extravacation of concentrations exceeding EO/, is likely to cause tissue							
EXtravasation	Extravasation of concentrations exceeding 5% is likely to cause tissue damage due to high osmolarity.							
	damage due to high obinolarity.							
Additional								
Information	For obstetric patients refer to CUMH guidelines or the Pharmacy Department							
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		to 40g given over a						
	is c	difficult to quantify a	s up to 5	0% of	an IV dose	is excreted in the		
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Information provided relates to Magnesium Sulphate (Aurum Pharmaceuticals) (Ethypharm) (Labesfal)