

Magnesium Sulphate

	C/	NUTION: High Admin	istration Risk	Rating									
Form		1g (4mmol) per 2mL ampoule (50% w/v) equivalent to 2mmol Magnesium per 1mL											
Reconstitution	Already in solution												
Compatibility & Stability	Sodium Chloride 0.9% Glucose 5%												
Administration	IV Injection 1-2g (4-8mmol) diluted to 10mL. Dose typically given over 10 -15 minutes, rate not exceeding 0.6mmol/min. IV Infusion – preferred method Max concentration 100mg/mL = 0.4mmol/mL=10% Infuse via a volumetric infusion device at a rate appropriate to the indication (usually 4–8 mmol/hour). Use lowest possible rate to avoid ADRs												
								, l	Dose	Volume	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)	8-16mL	250mL	12-24 hours								
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 overdose- loss of patellar reflexes, weakness, nausea, sensation of warmth, flushing, drowsiness, double vision, and slurred speech. 												
Extravasation	Extravasation is likely to cause tissue damage due to high osmolarity.												
Additional Information	For	 For obstetric patients refer to CUMH guidelines or the Pharmacy Department Up to 40g given over a period of 5 days may be necessary, however this is difficult to quantify as up to 50% of an IV dose is excreted in the urine. 1 mmol = 2 mEq = 24 mg of elemental magnesium = 240 mg magnesium sulphate 											

Information provided relates to Magnesium Sulphate manufactured by Aurum Pharmaceuticals and Ethypharm.