	REGIONAL ADULT PARENTERAL DRUG MONOGRAPH				
Southern Santé	GENERIC NAME				
Health	magnesium sulphate (gestational hypertension)				
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Effective Date: Dec 2011	CLASSIFICATION	OTHER NAME	S PAGE		
Revised Date: Dec 2022	Electrolyte Anticonvulsant	MgSO <sub>4</sub>	1 of 2		
ADMINISTRATION POL NOTE: For use in electroly		gnesium sulfate (electrolyte i	replacement monograph)		
IV Infusion – Administ	ration restricted to nurses	in LDRP/ER/ICU/OU			
	ration restricted to nurses				
RECONSTITUTION/DIL					
	mg/mL - 10 mL single use v				
All magnesium sulphate infu					
		mL) to 100 mL normal saline			
	I Volume: 120 mL Final 6 ninister over 20 to 30 minutes	Concentration: 33.3333 mg/n	nL		
		g/mL) to 500 mL normal sali	0		
Fina	I Volume: 600 mL Final	Concentration: 33.3333 mg/1	nL		
IV Infusion: Pump Librar					
		phate gestational			
Drug Library	Dose Rate	Short Name	Care Unit		
Yes	mL/h	mggest	Critical Care		
See dosing table on next page, NOTE that medication is ordered in grams but administration dosing is in mL.					
DOSAGE:NOTE:Some cases may take as long as six months to resolve. Hypertension that persists beyond this period should be evaluated and treated as in any nonpregnant woman.					
Loading dose:	4 grams	4 grams			
Maintenance:	0	Start at 1 to 2 grams/hour Refer to chart below for conversion of gram/hour to mL/hour			
Maximum single dose:	4 grams				
Maximum rate:	IV maintenance dose: 15	IV maintenance dose: 150 mg/minute (9 grams/hour)			
Maximum concentration:	200 mg/mL (20%)				

	Santé
Southern Health	Sud

## **REGIONAL ADULT PARENTERAL DRUG MONOGRAPH**

## GENERIC NAME magnesium sulphate

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Effective Date: Dec 2011	CLASSIFICATION	OTHER NAMES	PAGE			
Revised Date: Dec 2022	Electrolyte Anticonvulsant	MgSO <sub>4</sub>	2 of 2			
STABILITY/COMPATIBILITY:						
Stability of Final Admixture: 24 hours at room temperature						
Compatibility:	Compatible in D5W, normal saline, combination dextrose-saline solutions, Lactated Ringer					
PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:						
• Cardiovascular: Contraindicated in patients with heart block. Hypotension, flushing, sweating, hypothermia.						
Central Nervous System: CNS depression & decreased deep tendon reflexes.						
Respiratory: respiratory depression						
ADDITIONAL NOTES A	ND NURSING CONSIDERA	TIONS:				

- 200 mg/mL contains 0.8 mmol/mL or 1.6 mEq/mL elemental magnesium
- Ongoing patient monitoring includes:
  - Urine output: greater than 100 mL over previous 4 hours or greater than 30 mL/hour
  - Hourly assessment for presence of reflexes: lower dose if reflexes are absent
  - Hourly assessment of respirations: goal of 12 or greater per minute
  - Hourly oximetry: keep oxygen saturations greater than 94%
- ANTIDOTE for magnesium toxicity: Calcium gluconate 10 mL of 10% solution IV push over 3 minutes

## IV infusion titration dosing tableDiluted magnesium sulfate 33.3333 mg/mL dosing tableOrdered dose (grams/hour)Infusion rate (mL/hour)1302603904120