

ILLINOIS REGION 3 PROTOCOLS

MAGNESIUM SULFATE	
CLASS	Anticonvulsant; magnesium supplement
ACTION	<ul style="list-style-type: none"> ▪ Acts as a physiologic calcium channel blocker to block neuromuscular transmission. ▪ Central nervous system depressant
INDICATIONS	<ul style="list-style-type: none"> ▪ Seizures associated with eclampsia ▪ Polymorphic ventricular tachycardia / Torsades de Pointe ▪ Ventricular fibrillation associated with hypomagnesemia
CONTRAINDICATIONS	<ul style="list-style-type: none"> ▪ Heart block ▪ Hypocalcemia ▪ Hypotension
PRECAUTIONS	<ul style="list-style-type: none"> ▪ Side effects can occur from too rapid administration or if given undiluted. ▪ Monitor vital signs, cardiac status and respiratory status closely.
SIDE EFFECTS	<ul style="list-style-type: none"> ▪ Drowsiness ▪ Depressed reflexes; flaccid paralysis ▪ Respiratory depression; respiratory paralysis ▪ Bradycardia, other arrhythmias ▪ Hypotension; cardiac collapse ▪ Hypothermia ▪ Flushed skin; rash; itching
ROUTE	IV
DOSE	<ul style="list-style-type: none"> ▪ Seizures associated with eclampsia: 2-4 grams of 50% solution diluted in 100-250 mL of Normal Saline and infused over 30 minutes. ▪ Polymorphic ventricular tachycardia: 1-2 grams of 50% solution diluted in 10 mL of sterile water and administered over 1-2 minutes. ▪ Ventricular fibrillation: 1-2 grams of 50% solution IVP
PEDIATRIC DOSE	None
ONSET	Immediate
DURATION	3 to 4 hours
STOCK	(1) 5 grams/10 mL 50% solution Abboject (500 mg/mL)