

MAGNESIUM SULFATE

Additional Names:	MgSO ₄
Classification:	Antidysrhythmic, Electrolyte, Smooth Muscle Relaxant
Indications:	Asthma, Reactive Airway Disease Eclampsia Torsade de Pointes
Contraindications:	Known Hypersensitivity Heart blocks, Bradycardia, Myocardial damage (relative) Hypotension, Shock
Dosages:	<u>Adult:</u> <u>Wheezing/Bronchospasm: Severe</u> 2g IV/IO over 10min (mixed in 100mL NS/D5W) <u>Seizure in pregnancy > 20 weeks gestation</u> 4g IV/IO in 100mL NS/D5W infusion over 10min or 10g IM (5g in each buttock) if unable to obtain IV access <u>Cardiac Arrest – Torsade de Pointes / Polymorphic VT</u> 2g IV/IO <u>Tachycardia – Torsade de Pointes / Polymorphic VT</u> <u>1-2g IV/IO over 10min.</u> <u>Pediatric:</u> <u>Asthma/Wheezing > 2yo: Severe</u> 50mg/kg IV over 10min, max 2g <u>Cardiac Arrest – Torsade de Pointes / Polymorphic VT</u> 50mg/kg IV/IO, max 2g <u>Tachycardia – Torsade de Pointes / Polymorphic VT</u> 50mg/kg IV/IO over 20min
Infusion Set-Up:	Waste 150mL of 250mL NS/D5W leaving 100mL in bolus. Add 2-4g of MgSO ₄ to bolus. Using a 15gtt/mL macro drip set, administer infusion at a rate of 2.5gtts/sec (aka 150 gtt/min) to deliver over 10 minutes.
Side Effects:	Hypotension, flushing, drowsiness, respiratory depression/paralysis, CNS depression and paralysis