



Section 13: Appendix 1: Medications

MAGNESIUM SULFATE

Pregnancy Category - A

P PARAMEDIC P

ACTIONS	<ol style="list-style-type: none"> 1. Central Nervous System Depressant 2. Anticonvulsant 3. Antiarrhythmic
INDICATIONS	<ol style="list-style-type: none"> 1. Ventricular fibrillation / pulseless ventricular tachycardia in patients who are malnourished or chronic alcoholics 2. Treatment of seizures in eclampsia patients 3. Torsades de pointes
CONTRAINDICATIONS	<ol style="list-style-type: none"> 1. Known hypersensitivity 2. Shock 3. Heart blocks
PRECAUTIONS	<ol style="list-style-type: none"> 1. Hypotension 2. Renal impairment
SIDE EFFECTS	<ol style="list-style-type: none"> 1. Respiratory depression 2. Flushing 3. Drowsiness
SUPPLIED	1 gram / 2 ml vial 50% solution
ADULT DOSAGE	<p>Cardiac Arrest / Torsades or Hypomagnesemia: 2 grams diluted in 100 ml normal saline IV/IO. Use Minidrip administration set</p> <p>Eclampsia / Toxemia: 6 grams diluted in 100 ml normal saline IV/IO wide open. Use Minidrip administration set</p>
PEDIATRIC DOSAGE	<p>25 – 50 mg / kg IVP / IO for Torsades only</p> <p>See <u>PEDIATRIC DRUG ADMINISTRATION CHART</u> for weight based administration</p>
KEY POINTS	<ul style="list-style-type: none"> • Check deep tendon reflexes (DTR's) after administration • Monitor EKG, vital signs and respiratory effort during administration
PROTOCOL USES	<ul style="list-style-type: none"> • Adult Ventricular Fibrillation / Ventricular Tachycardia • Adult Wide Complex Tachycardia • Obstetrical Emergencies • Pediatric Ventricular Fibrillation / Ventricular Tachycardia