

R. Magnesium Sulfate

- I. Classification
 - Electrolyte
- II. Actions
 - Depresses the central nervous system and relaxes smooth muscle, skeletal muscle and cardiac muscle
- III. Indications
 - Torsade De Pointes
 - Obstetrical Emergencies - Eclampsia
 - Asthma
- IV. Contraindications
 - Heart Block
 - Myocardial damage
- V. Adverse effects
 - A. Cardiovascular
 - Flushing
 - Hypotension*
 - B. Respiratory
 - Depression**
 - Failure
- VI. Administration
 - A. Adult
 - Asthma : 2 Gm (in 50 ml NS or D5W) IV/IO gtt over 10 minutes (10 gtt set)
 - Eclampsia: 4 Gm (in 50 ml NS or D5W) IV/IO gtt over 10 minutes (10 gtt set)
 - Torsades de Pointes: 2 Gm slow IVP. In 10 cc syringe, combine 2 Gm (4 cc) with 6 cc Normal saline for proper dilution of magnesium.
 - B. Pediatric
 - Asthma : 40 mg/kg (in 50 ml NS or D5W) IV gtt over 10 minutes (10 gtt set)
- VII. Onset
 - Immediate
- VIII. Duration
 - Variable
- IX. Precautions
 - Patients that may require high doses of magnesium, can develop signs/symptoms of toxicity. These signs/symptoms include lethargy, decreased respiratory effort, and decreased reflexes.