

**Seminole Community College  
Medication Handout #9  
Magnesium Sulfate (Magnesium)**

**Name / Class:** Magnesium Sulfate (Magnesium)

**Description:** Magnesium Sulfate is an electrolyte that acts as a calcium channel blocker, acting as a CNS depressant and anticonvulsant. It also depresses the function of smooth, skeletal, and cardiac muscles.

**Indications:** Refractory ventricular fibrillation and pulseless ventricular tachycardia (especially torsades de points), AMI, and eclamptic seizures.

**Contraindications:** Heart Block, myocardial damage, shock, persistent hypertension, and hypocalcemia.

**Precautions:** Renal Impairment, digitalized patients, other CNS depressants, or neuromuscular blocking agents.

**Dosage / Route:**

**Ventricular Fibrillation or Ventricular Tachycardia-** 1 to 2 grams IV over 2 min.

**Multifocal V-Tach. (Torsades de Points)-** 1 to 2 grams IV followed by infusion of 0.5 to 1.0 grams / hour IV.

**AMI-** 1.0 to 2.0 grams IV over 5 to 30 minutes

**Eclampsia-** 2.0 to 4.0 grams IV / IM