

MAGNESIUM SULFATE

Protocols: Multiple

- **Type of drug:** Electrolyte, antiarrhythmic, anticonvulsant
- **Mechanism of Action:** essential for muscle contraction; causes CNS depression and controls seizures by blocking release of acetylcholine at the myoneural junction; decreases sensitivity of motor end plate to acetylcholine and decreases excitability of motor membrane.
- **Indications:** correct hypomagnesemia in Torsade de pointes; management of eclampsia of pregnancy; respiratory distress
- **Contraindications:** hypocalcemia, heart block; do not administer in toxemia during the 2-hour period before delivery.
- **Precautions:** rapid IV administration may cause respiratory or cardiac arrest
- **Route and Dosage:** Respiratory Distress: 2 g IV / IO over 2-3 minutes. OB related seizures 2 g IV / IO over 2-3 minutes. Pediatric Respiratory Distress: 40 mg/kg IV / IO over 20 minutes (Max 2 g)
- **Adverse reactions and side effects:** respiratory depression and arrest, arrhythmias, hypotension.