

# Magnesium Sulfate

<b><u>Generic Name:</u></b>	<b><u>Brand Name:</u></b>	<b><u>Drug Class:</u></b>
Magnesium Sulfate		Electrolyte, Antiarrhythmic
<b><u>Mechanism of Action:</u></b>	<b><u>Time to Onset:</u></b>	<b><u>Duration of Effects:</u></b>
Reduces ACh release at myoneural junction	Immediate	30 minutes
<b><u>Indications:</u></b>	<b><u>Contraindications:</u></b>	<b><u>Possible Side Effects:</u></b>
<ul style="list-style-type: none"> <li>• Eclampsia</li> <li>• Torsades de Pointes</li> <li>• Status asthmaticus (refractory)</li> <li>• Tricyclic antidepressant toxicity</li> </ul>	<ul style="list-style-type: none"> <li>• 2° + heart blocks</li> <li>• Hypocalcemia</li> </ul>	<ul style="list-style-type: none"> <li>• Hyporeflexia</li> <li>• Hypotension</li> <li>• Bradycardia</li> <li>• Flushed skin</li> </ul>
<b><u>Administration Route:</u></b>	<b><u>Adult dose:</u></b>	<b><u>Pediatric dose:</u></b>
<ul style="list-style-type: none"> <li>• IV</li> <li>• IO</li> <li>• IM</li> </ul>	<p>Eclampsia</p> <ul style="list-style-type: none"> <li>• 1-4 g over 3-4 minutes</li> </ul> <p>Torsades de Pointes</p> <ul style="list-style-type: none"> <li>• w/ pulse: 1-2 g over 5 minutes</li> <li>• Pulseless: 1-2 g over 2 minutes</li> </ul>	<p>Torsades de Pointes</p> <ul style="list-style-type: none"> <li>• Pulseless: 25 mg/kg (max 2)</li> </ul>
<p>Magnesium Sulfate is typically supplied in a 2g/4mL 50% solution. It should be diluted to 20% for administration by mixing with 6mL of normal saline. Suspected magnesium overdose can be reversed with the administration of calcium chloride/gluconate.</p>		