



ADULT



MAGNESIUM SULFATE INFUSION

This document should be read in conjunction with this [DISCLAIMER](#)

HIGH RISK Medication 

Presentation	<p><i>Not to be confused with Magnesium Sulfate Injection</i></p> <p>IV infusion bag: Magnesium Sulphate 8g in 100mL WFI (8%) (contains approx. 32mmol Mg)</p>
Dose	<p><u>Pre-eclampsia/Eclampsia/Neuroprotection of the Fetus</u></p> <p>IV infusion:</p> <p>Refer to Hypertension in pregnancy: Magnesium anticonvulsant therapy and Magnesium sulfate for neuroprotection of the fetus</p> <p><u>Recurrent seizures/eclampsia occurring during prophylaxis</u></p> <p>IV infusion:</p> <p>Refer to Hypertension in pregnancy: Magnesium anticonvulsant therapy</p>
Administration	<p><u>IV infusion</u></p> <p>Infusion must be administered via a controlled infusion device</p>
Pregnancy	<p>1st Trimester: Safe to use</p> <p>2nd Trimester: Safe to use</p> <p>3rd Trimester: Safe to use</p>
Breastfeeding	<p>Safe to use</p>
Monitoring	<p>Blood pressure, heart rate, respiratory rate, oxygen saturation, urine output and deep tendon reflexes.</p> <p>Cease infusion if:</p> <ul style="list-style-type: none"> • Absent patella reflexes • Urinary output <30mL/hour • Respiratory depression ≤12 breaths/minute • Respiratory arrest <p>Monitor for signs of magnesium toxicity: nausea, vomiting, flushing,</p>

	<p>hypotension, muscle weakness, muscle paralysis, blurred or double vision, CNS depression and loss of reflexes.</p> <p>More severe hypermagnesaemia may result in respiratory depression, respiratory paralysis, renal failure, coma, cardiac arrhythmias and cardiac arrest</p> <p>Treatment of toxicity:</p> <ul style="list-style-type: none"> • Calcium gluconate 1g/10mL IV over 3-10 minutes <p>Concurrent use with nifedipine may increase the risk of hypotension</p>
Clinical Guidelines and Policies	<p>Hypertension in Pregnancy: Medical Management</p> <p>Hypertension in pregnancy: Magnesium anticonvulsant therapy</p> <p>Hypertension in Pregnancy: Management of the woman with eclampsia</p> <p>Magnesium sulfate for neuroprotection of the fetus</p> <p>Antenatal magnesium sulphate prior to preterm birth for neuroprotection of the fetus post birth</p> <p>Preterm Labour</p>
References	<p>Australian Medicines Handbook. Magnesium Sulphate. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2018 Jan 15]. Available from: https://amhonline-amh-net-au</p> <p>The Royal Women's Hospital. Magnesium Sulphate. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2016 [cited 2018 Jan 15]. Available from: https://thewomenspbmg-org-au</p>

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