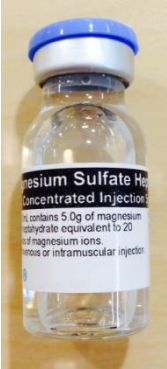




Infusions in asthma management:

Medication	Ampoule	Standard Dilution	Bolus Dose	Infusion	Side Effects
Magnesium sulphate 50%	10ml ampoule 20mmol (5g) in 10 ml 	10mmol (5ml of 50% Magnesium sulphate solution) in 100ml of NaCl 0.9%	N/A	10mmol over 20 minutes	Flushing Hypotension & respiratory depression (rare in doses advised)
Salbutamol	1ml ampoule 500mcg in 1ml 	5mg (10 x 500mcg Salbutamol ampoule) in 500ml NaCl 0.9%	250mcg neat over 1 min (0.5ml of an ampoule)	5mcg/min (0.5ml/min = 30ml/hr) Can increase up to 20mcg/min (2ml/min = 120ml/hr)	Tremor Tachyarrhythmia Hypokalaemia – monitor K levels Lactic acidosis
<p>This dosing is based on the St Vincent's Hospital (Sydney) protocol (2014). Other protocols use weight based values for adults and children. The above protocols fit within summarised guidelines from a most recent paper which summarises what is used in Australia, UK and the US. Evidence is not conclusive but check here http://bjia.oxfordjournals.org/content/early/2012/12/11/bja.aes444.full#sec-6</p>					
Adrenaline	1ml ampoule 1mg in 1ml (1:1000) 	2mg in 100ml 5% dextrose (20mcg/ml)	Not indicated unless periarrest or in cardiac arrest (see text)	Start at 5ml/hr Give through a central line Can titrate up to 15ml/hr (increased risk of side effects)	Tremor Tachyarrhythmia Hypertension Hypokalaemia Lactic acidosis Limb ischaemia if given peripherally