

MAGNESIUM SULPHATE

– IV Infusion

For children over 2 years **ONLY** (for severe asthma)

Available as: 50% - 5g in 10ml

Preparation:

- 1) Draw up 16ml of Sodium Chloride 0.9% or Glucose 5% into a 20ml syringe
- 2) Draw up 4ml of Magnesium Sulphate 50%, add to 16ml
(to give maximum concentration of 100mg/ml or make to 200mg/ml if fluid restricted)
- 3) Mix well
- 4) Check required dose (see below) - discard volume that is not required

Dose: 40mg/kg (maximum 2g) infused over 20 minutes

Table to calculate dose (in mg) and volume (in mls) to be given as IV infusion

Weight (kg)	Dose (mg)	Volume(mls)
12	480	4.8
13	520	5.2
14	560	5.6
15	600	6
16	640	6.4
17	680	6.8
18	720	7.2
19	760	7.6
20	800	8
22	880	8.8
24	960	9.6
26	1040	10.4

Weight (kg)	Dose (mg)	Volume(mls)
28	1120	11.2
30	1200	12
32	1280	12.8
34	1360	13.6
36	1440	14.4
38	1520	15.2
40	1600	16
42	1680	16.8
44	1760	17.6
46	1840	18.4
48	1920	19.2
50+	2000	20

(maximum dose = 2000mg / 2g)

Administer the prescribed dose as IV INFUSION OVER 20 MINUTES

(maximum infusion rate is 10mg/kg/minute – above rate over 20 mins. is 2mg/kg/minute)

Observations & Cautions:

Nurse on cardiac monitor due to risk of bradycardia – can be minimised by slowing the rate of administration

Monitor BP and respiratory rate

Flushing can occur

Caution in renal impairment due to risk of toxicity