

EMS Adult Medication Reference Sheet

Important Infusion Preparation Notes

- Normal Saline, D5W or Lactated Ringers may be used to prepare the below infusions.
- Remove volume from diluent equivalent to that of medication being added prior to mixing.
- Agitate admixture well prior to administering.
- Label all infusion bags/burettes with medication added, concentration, date, time and initials.

Follow agency/device manufacturer guidance regarding use of flow controller devices. If used solely as a flow restrictor/safety back-up, set at next gradation above the desired mL/hour rate.

Ketamine - 100 mg/mL concentration **INTRAMUSCULAR (4 mg/kg IM)** **Chemical Restraint for Severe Agitation**

Weight:	37-43kg	44-56kg	57-68kg	69-81 kg	82-93kg	94-106kg	107-118kg	≥119kg
Dose:	150 mg	200 mg	250 mg	300 mg	350mg	400 mg	450 mg	500 mg
Volume:	1.5 mL	2 mL	2.5 mL	3 mL	3.5 mL	4 mL	4.5 mL	5 mL

Epinephrine Infusion

Mix 1 mg in total of 250 mL - 4 mcg/mL concentration

If using Burette Set, mix 0.5 mg in total of 125 mL - 4 mcg/mL concentration

Use infusion pump or 60 gtts/mL drip set and flow-restricting device

mcg/min	2	3	4	5	6	7	8	9	10
Drops/min	30	45	60	75	90	105	120	135	150
mL/hour	30	45	60	75	90	105	120	135	150

Norepinephrine/Levophed Infusion

Mix 4 mg in total 250 mL - 16 mcg/mL concentration

If using Burette Set, mix 2 mg in total of 125 mL - 16 mcg/mL concentration

Use infusion pump or 60 gtts/mL drip set and flow-restricting device

mcg/min	4	6	8	10	12	16	20	24	28	30
Drops/min	15	23	30	38	45	60	75	90	105	113
mL/hr	15	23	30	38	45	60	75	90	105	113

Diltiazem Maintenance Infusion (5-15 mg/hr)

Mix 25 mg in total 100 mL - 0.25 mg/mL concentration

Use infusion pump or 60 gtts/mL drip set and flow-restricting device

	Desired Dose		
	5 mg/hr	10 mg/hr	15 mg/hr
Drops/min	20	40	60
mL/hr	20	40	60

Magnesium Sulfate

Asthma: 2 grams in 100mL over 10 minutes (10 gtts/mL set at 100 drops/min, 600 mL/hour)

Torsades: 2 grams in 50-100mL over 5 minutes (10 gtts/mL drip set at 100-200 drops/min, 600-1200 mL/hour)

Ecclampsia: 4 grams in 100mL over 10 minutes (10 gtts/mL drip set at 100 drops/min, 600 mL/hour)

Post-bolus infusion (1 gm/hour): Mix 1 gram in 100 mL; Using 60 gtts/mL drip set administer at 100 drops/min (100 mL/hour)

Amiodarone (Patient with a pulse)

5% Dextrose in water is the preferred diluent

GENTLY Mix 150 mg in total 100 mL – 1.5 mg/mL concentration

Avoid agitating solution as it bubbles/foams easily

Bolus dose over 10 minutes: Use 10 gtts/mL drip set at 100 drops/min, 600 mL/hour

Maintenance dose (1 mg/minute): Use 60 gtts/mL drip set at 40 drops/min, 40 mL/hour