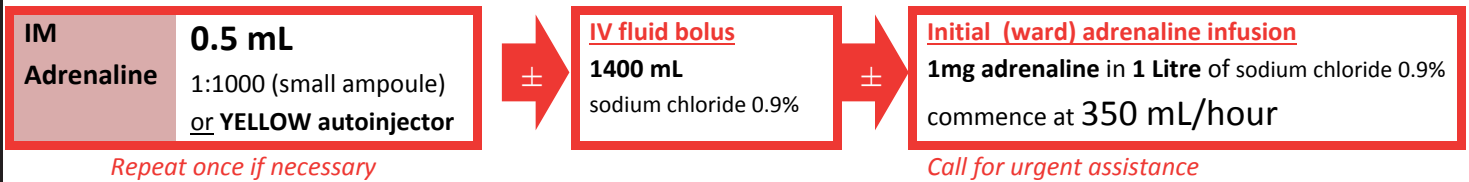


70 kg

Anaphylaxis



Resuscitation

Adrenaline IV (cardiac arrest)	10 micrograms/kg	ADULT dose 1mg	of 1:10,000 (large ampoule)	10 mL
Fluid bolus	20 mL/kg		of Sodium chloride 0.9%	1400 mL
Glucose (10%)	2 mL/kg		of Glucose 10% (or 28 mL of Glucose 50%)	140 mL
DC shock	4 J/kg		Use adult/child pads	200 Joules
ATROpine	20 micrograms/kg	600 micrograms	Undiluted (600 micrograms in 1 mL) – ADULT dose	1 mL
AmIODAROne	5 mg/kg	300 mg – ADULT dose	Dilute 2 ampoules (150mg in 3mL) to 50mL in <u>Glucose 5%</u> Over 3 mins in emergency, otherwise over 20-120 mins	50 mL
Adenosine (1st dose)	0.1 mg/kg	6 mg	<u>Undiluted</u> (6 mg in 2 mL); use 5 mL or 10 mL syringe.	2 mL
Adenosine (2nd dose)	0.2 mg/kg	12 mg	- ADULT DOSE	4 mL
Adenosine (3rd dose)	0.3 mg/kg	18 mg		6 mL

Nebulised Adrenaline for upper airway obstruction / croup: **5 mL of 1:1000** (small ampoule) **OR 0.5 mL** of 1% solution diluted to 4 mL

Intubation (prepare one size above/below)

ET tube size (<u>uncuffed</u>) (Age/4) + 4	8	Depth: 21 cm to lip	Laryngoscope: 3-4
ET tube size (<u>Microcuff™</u>)	7	23 cm to nose	Suction: 12
ET tube size (<u>cuffed</u>) (Age/4)+3.5	7.5	LMA size: 4	

Induction agents

Ketamine	1-2 mg/kg	70 - 140 mg	Dilute 200mg in 20 mL OR dilute 100mg in 10mL	7 - 14 mL
Propofol	1.5 – 2.5 mg/kg	105 - 175 mg	Risk CVS ↓ Undiluted	10.5 – 17.5 mL
Thiopentone	2.5-5 mg/kg	175 - 350 mg	Risk CVS ↓ Reconstitute 500mg in 20 mL water for injection	7 – 14 mL
Fentanyl	2 micrograms/kg	140 micrograms	Undiluted (100 micrograms / 2mL)	2.8 mL
Midazolam	0.1 mg/kg	7 mg	Dilute 5 mg to 5 mL	7 mL

Paralytic agents

Suxamethonium	1.5 mg/kg	110 mg	Undiluted (100 mg in 2 mL)	2.2 mL
Rocuronium	1.2 mg/kg	84 mg	Undiluted	8.4 mL
Vecuronium	0.1 mg/kg	7 mg	Reconstitute 10 mg in 10 mL water for injection	7 mL
Pancuronium	0.1 mg/kg	7 mg	Undiluted (4 mg in 2 mL)	3.5 mL
Atracurium	0.5 mg/kg	35 mg	Undiluted (10 mg/mL)	3.5 mL
Cisatracurium	0.15 mg/kg	10.5 mg	Undiluted	5.25 mL

Antidotes

Sugammadex	16 mg/kg	1120 mg	Undiluted (100 mg/mL)	11.2 mL
Naloxone	2 micrograms/kg	140 micrograms	Dilute 400 micrograms (1mL ampoule) to 4 mL	1.4 mL <i>repeat PRN</i>

Severe uncontrolled haemorrhage – use WARMED fluids

Tranexamic acid (15 mg/kg) Undiluted: 1050 mg (10.5 mL) slow push	Packed cells / FFP (5 mL/kg) 350 mL (aim 1:1 ratio)	Platelets (10-15 mL/kg) 700 – 1050 mL	Cryoprecipitate (10 mL/kg) 700 mL
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All dilutions with Sodium chloride 0.9% unless otherwise specified.

Asthma (NB –all need to be given as separate infusions)

Corticosteroids

Magnesium	50 mg/kg (0.1 mL/kg of 50% MgSO ₄)	2500 mg (5 mL) of 50% MgSO ₄ diluted to at least 63 mL Give over 20 minutes	Methylprednisolone 60 mg IV, then 60 mg 6 hourly
Aminophylline	10 mg/kg	500 mg diluted to at least 500 mL Give over 1 hour	Dexamethasone 8mg (max) IV/IM
Salbutamol	ADULT: Small IV bolus, then 5- 10 micrograms/kg/hour	250 microgram bolus over 1 minute, then 500 micrograms diluted in at least 10 mL over 1-2 hours	Hydrocortisone 300 mg IV, then 280 mg 6 hourly

Seizures / Neurology (see seizure flowchart)

MIDazolam (5 mg/ 1 mL – <i>small ampoule</i>) Intramuscular: (0.15 mg/kg) = 10 mg = 2 mL IM Buccal / nasal: (ADULT DOSE) = 10 mg = 2 mL intranasal or buccal	IV MIDazolam (5 mg/ 5 mL – <i>large ampoule</i>) IV: (0.15 mg/kg) = 10 mg 10 mL IV	IV Clonazepam Adult dose 1 mg	IV Diazepam (Adult does) 10 mg
PhenyTOIN	20 mg/kg	1400 mg	Undiluted (preferred). May dilute up to 230 mL (max); give over 20 min
Levetiracetam	40 mg/kg	2800 mg	Dilute 1 x 500mg vial to 10mL (will need 6 vials). Give 56 mL over 5 min
PHENobarbitone	20 mg/kg	1400 mg	Dilute to at least 1:10; give over 20 min
Paraldehyde. 0.4 mL/kg (undiluted)	<i>Dilute 1 ampoule (5mL) to a total of 10mL with olive oil or 0.9% sodium chloride. Give 10 mL PR</i>		
Mannitol 20%	0.5g/kg (2.5 mL/kg)	175 mL	Over 20-30 minutes for raised ICP
Sodium chloride 3% (“Hypertonic Saline”)	3 mL/kg	210 mL	Over 10-20 minutes for raised ICP

Electrolyte abnormalities

<p>Hyperkalaemia</p> <ul style="list-style-type: none"> - Calcium gluconate 10% 20 mL slow IV (peripheral / central) OR Calcium chloride 10% 5 - 10 mL (central) - Salbutamol 5 mg nebulised - Glucose 10% 250 mL (or Glucose 50% 50 mL) with Actrapid 10 units bolus - Sodium bicarbonate 8.4% 50 - 100 mL (if acidosis) <p><i>Calcium and bicarbonate should be given using different lines</i></p> <p>Critical hyponatraemia with seizures (Do NOT correct >8 mmol/L/day) 280 mL of Sodium Chloride 3% over 20 minutes</p>	<p>Critical hypocalcaemia</p> <p>Calcium gluconate 10% 30 mL slow IV (peripheral / central)</p> <p>Hypomagnesaemia</p> <p>5000 mg (10 mL of 50% MgSO₄), dilute to at least 25 mL Infuse over at least 4 hours</p> <p>Severe hypokalaemia needing urgent treatment</p> <p>Use pre-mixed 100mL bag [isotonic] (Potassium Chloride 10 mmol in Sodium Chloride 0.29%) 20 mmol (200 mL) over 1 hour using infusion pump</p>
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“Push-dose pressors”

Metaraminol	10 micrograms/kg	500 micrograms (ADULT DOSE)	Draw up 10 mg (1 ampoule) into a 20 mL syringe OR use undiluted 3mg/6mL vial	1 mL
Phenylephrine	5 micrograms/kg	100 micrograms (ADULT DOSE)	10 mg (1 ampoule) in 100 mL bag. Draw up 10 mL.	1 mL
Adrenaline	1 micrograms/kg	50 micrograms (ADULT DOSE)	Dilute 0.5 mL of 1:1,000 Adrenaline (<u>small ampoule</u>) to total volume of 10 mL	1 mL

Infusions

	Order	1 mL / h is equal to	Starting dose
Adrenaline / Noradrenaline (Central / IO)	6 mg made up to 100 mL (Glucose 5%)	1 microgram/minute “Adult” dose	1 – 10 mL/h
Noradrenaline / Adrenaline (Peripheral)	6 mg made up to 1000 mL (1 L) [or 3mg in 500 mL]. Starting dose = 35 mL/h; titrate by 35 mL/h (Dilute ADRENALINE with 0.9% sodium chloride; and dilute NORadrenaline with Glucose 5% + 0.9% sodium chloride) <i>1 mL/kg/h= 0.1 microgram/kg/min</i> <i>mL/h=microgram/kg/min: 35=0.05; 70=0.1; 105=0.15; 140=0.2; 175=0.25; 210=0.3; 280=0.4; 350=0.5; 700=1</i>		
Dobutamine	600 mg made up to 100 mL (Glucose 5%)	100 micrograms/minute “Adult dose”	5 - 30 mL/h
Morphine	50 mg made up to 50 mL (Glucose 5% preferred); can also use sodium chloride 0.9%)	1 mg/hour “Adult dose”	1 – 4 mL/h
Midazolam	50 mg made up to 50 mL (Glucose 5% preferred); can also use sodium chloride 0.9%)	1 mg/hour “Adult dose”	1 - 4 mL/h

All dilutions with Sodium chloride 0.9% unless otherwise specified.