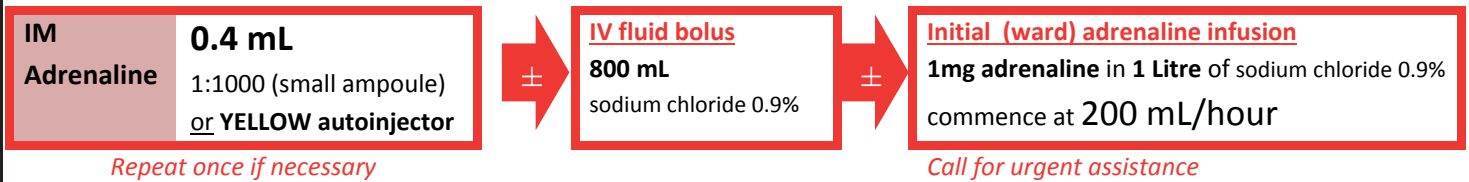


40 kg

Anaphylaxis



Resuscitation

Adrenaline IV (cardiac arrest)	10 micrograms/kg	400 micrograms	of 1:10,000 (large ampoule)	4 mL
			ETT dose 2.5 mL of 1:1000 (small ampoules), diluted to 10mL	
Fluid bolus	20 mL/kg		of Sodium chloride 0.9%	800 mL
Glucose (10%)	2 mL/kg		of Glucose 10%	80 mL
DC shock	4 J/kg		Use adult/child pads	150 Joules
ATROpine	20 micrograms/kg	600 micrograms	Undiluted (600 micrograms in 1 mL) – ADULT dose	1 mL
AmIODAROne	5 mg/kg	200 mg	Dilute 2 ampoules (150mg in 3mL) to 50mL in <u>Glucose 5%</u> Over 3 mins in emergency, otherwise over 20-120 mins	33.3 mL
Adenosine (1st dose)	0.1 mg/kg	4 mg	<u>Undiluted</u> (6 mg in 2 mL); use 3 mL or 5 mL syringe.	1.3 mL
Adenosine (2nd dose)	0.2 mg/kg	8 mg		2.7 mL
Adenosine (3rd dose)	0.3 mg/kg	12 mg		4 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	6.5	Depth: 18 cm to lip	Laryngoscope: 3
ET tube size (<u>Microcuff™</u>)	6	21 cm to nose	Suction: 10 -12
ET tube size (<u>cuffed</u>) (Age/4)+3.5	6	LMA size: 3	

Induction agents

Ketamine	1-2 mg/kg	40 - 80 mg	Dilute 200mg in 20 mL OR dilute 100mg in 10mL	4 - 8 mL
Propofol	1.5 - 2.5 mg/kg	60 - 100 mg	Risk CVS ↓ Undiluted	6 - 10 mL
Thiopentone	2.5-5 mg/kg	100 - 200 mg	Risk CVS ↓ Reconstitute 500mg in 20 mL water for injection	4 - 8 mL
Fentanyl	2 micrograms/kg	80 micrograms	Dilute 100 micrograms to 10 mL	8 mL
Midazolam	0.1 mg/kg	4 mg	Dilute 5 mg to 5 mL	4 mL

Paralytic agents

Suxamethonium	2 mg/kg	80 mg	Undiluted (100 mg in 2 mL)	1.6 mL
Rocuronium	1.2 mg/kg	48 mg	Undiluted	4.8 mL
Vecuronium	0.1 mg/kg	4 mg	Reconstitute 10 mg in 10 mL water for injection	4 mL
Pancuronium	0.1 mg/kg	4 mg	Undiluted (4 mg in 2 mL)	2 mL
Atracurium	0.5 mg/kg	20 mg	Undiluted (10 mg/mL)	2 mL
Cisatracurium	0.1 mg/kg	4 mg	Undiluted	2 mL

Antidotes

Sugammadex	16 mg/kg	640 mg	Undiluted (100 mg/mL)	6.4 mL
Naloxone	2 micrograms/kg	80 micrograms	Dilute 400 micrograms (1mL ampoule) to 10 mL	2 mL <i>repeat PRN</i>

Severe uncontrolled haemorrhage – use **WARMED** fluids

Tranexamic acid (15 mg/kg) Undiluted: 600 mg (6 mL) slow push	Packed cells / FFP (5 mL/kg) 200 mL (aim 1:1 ratio)	Platelets (10-15 mL/kg) 400 - 600 mL	Cryoprecipitate (10 mL/kg) 400 mL
--	--	---	--

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)	2000 mg (4 mL) of 50% MgSO ₄ diluted to at least 50 mL Give over 20 minutes	Methylprednisolone 60 mg IV, then 40 mg 6 hourly
Aminophylline	10 mg/kg	400 mg diluted to at least 400 mL Give over 1 hour	Dexamethasone (0.15 - 0.6 mg/kg) 6 mg – 8mg (max) IV/IM
Salbutamol	5 micrograms/kg/minute	12 mg diluted to at least 60 mL Give over 1 hour	Hydrocortisone 300 mg IV, then 160 mg 6 hourly

Seizures / Neurology (see seizure flowchart)

MIDazolam (5 mg/ 1 mL – <i>small ampoule</i>) Intramuscular: (0.15 mg/kg) = 6 mg = 1.2 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) = 6 mg 6 mL IV	IV Clonazepam Child dose 0.5 mg	IV Diazepam (0.25 mg/kg) 10 mg
PhenyTOIN	20 mg/kg	800 mg	Undiluted (preferred). May dilute up 130 mL (max); give over 20 min
Levetiracetam	40 mg/kg	1600 mg	Dilute 1 x 500mg vial to 10mL (will need 4 vials). Give 32 mL over 5 min
PHENobarbitone	20 mg/kg	800 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)	100 mL	Over 20-30 minutes for raised ICP
Sodium chloride 3% (“Hypertonic Saline”)	3 mL/kg	120 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% 4 - 8 mL (central) - Salbutamol 5 mg nebulised - Glucose 10% 200 mL with Actrapid 4 units/hour IV - Sodium bicarbonate 8.4% 40 - 100 mL (if acidosis) <p>Calcium and bicarbonate should be given using different lines</p> <p>Critical hyponatraemia with seizures (<i>Do NOT correct >8 mmol/L/day</i>) 160 mL of Sodium Chloride 3% over 20 minutes</p>	<p>Critical hypocalcaemia</p> <p>Calcium gluconate 10% 20 mL slow IV (peripheral / central)</p> <p>Hypomagnesaemia 4000 mg (8 mL of 50% MgSO₄), dilute to at least 20 mL Infuse over at least 4 hours</p> <p>Severe hypokalaemia needing urgent treatment Use pre-mixed 100mL bag [isotonic] (Potassium Chloride 10 mmol in Sodium Chloride 0.29%) 12 mmol (120 mL) over 1 hour using infusion pump</p>
---	--

“Push-dose pressors”

Metaraminol	10 micrograms/kg	400 micrograms	10 mg (1 ampoule) in 100 mL bag. Draw up 10 mL. <i>(OR use undiluted 3mg/6mL vial and give 0.8 mL)</i>	4 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	40 micrograms	Dilute 4 mL of 1:10,000 Adrenaline (<u>large 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 50 mL (Glucose 5%)	0.05 micrograms/kg/min	1 – 10 mL/h
Noradrenaline / Adrenaline (Peripheral) <i>1 mL/kg/h = 0.1 microgram/kg/min</i>	6 mg made up to 1000 mL (1 L) [<i>or 3mg in 500 mL</i>]. Starting dose = 20 mL/h; titrate by 20 mL/h (Dilute ADRENALINE with 0.9% sodium chloride; and dilute NORadrenaline with Glucose 5% + 0.9% sodium chloride) mL/h = microgram/kg/min: 20=0.05; 40=0.1; 60=0.15; 80=0.2; 100=0.25; 120=0.3; 160=0.4; 200=0.5; 400=1		
Dobutamine	240 mg made up to 100 mL (Glucose 5%)	1 micrograms/kg/min	5 - 20 mL/h
Morphine	40 mg made up to 50 mL (Glucose 5% preferred); can also use sodium chloride 0.9%)	20 micrograms/kg/hour	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.