

INTRAVENOUS STAT DOSES

45 kg

Diluents:

NS = Sodium Chloride 0.9%, G5 = Glucose 5%, WFI = Water for Injections

• = Central or intraosseus route only

CD = Controlled drug

Maximum doses highlighted in red



Note: Ideal or adjusted body weight should be used where clinically appropriate

Intubation/Induction

Drug	Dose/kg	Calculated Dose	Dilution
Atracurium besilate	0.5 mg/kg	22.5 mg	Neat or with NS/G5 to convenient vol.
Atropine sulfate	20 microg/kg	600 microg	Neat or with NS/G5 to convenient vol.
Fentanyl CD	1 - 5 microg/kg	45 - 200 microg	Neat or with NS/G5 to convenient vol.
Ketamine CD	1 - 2 mg/kg	45 - 90 mg	Neat or with NS/G5 to convenient vol.
Midazolam CD	0.1 - 0.2 mg/kg	4.5 - 5 mg	Neat or with NS/G5 to convenient vol.
Rocuronium bromide	0.6 - 1 mg/kg	27 - 45 mg	Neat or with NS/G5 to convenient vol.
Suxamethonium chloride	2 mg/kg	90 mg	Neat or with NS/G5 to convenient vol.
Thiopental sodium	2 - 5 mg/kg	90 - 225 mg	Reconstitute to 25mg/mL with 20mL NS/G5/WFI

Fluid Bolus

Dose/kg	Calculated Volume
10mL/kg	450 mL
5mL/kg	225 mL

Maintenance Fluids

%	Daily Allowance	Rate
100%	2000 mL/day	83.3 mL/hr
75%	1500 mL/day	62.5 mL/hr
50%	1000 mL/day	41.7 mL/hr

Cardiac Arrest/Arrhythmias

Drug	Dose/kg	Calculated Dose	Administer Over	Dilution
Adenosine	0.1 - 0.5 mg/kg	3 - 12 mg	2 seconds	Neat or dilute to 0.5mg/mL with 6mL NS
Adrenaline (1:10,000) [100microg/mL]	0.01 mg/kg	0.45 mg	Rapid injection	Neat
Amiodarone hydrochloride cardiac arrest loading dose - arrhythmias	5 mg/kg	225 mg	3 minutes	Neat or dilute to 7.5 - 15mg/mL with G5
	5 - 10 mg/kg	225 - 300 mg	20 minutes - 2 hours	Dilute to 0.6 - 2.4mg/mL with G5
Calcium <u>GLUCONATE</u> 10% [0.22mmol/mL]	0.11 mmol/kg	4.95 mmol	5 - 10 minutes	Neat or dilute each 1mL with 4mL of NS/G5
Glucose 10%	2 mL/kg	90 mL	2 - 5 minutes	Neat
Magnesium sulfate 50% [500mg/mL]	25 - 50 mg/kg	1125 - 2000 mg	20 minutes	Dilute each 1mL with 4mL of NS/G5
• Potassium chloride 15% [2mmol/mL] CD	0.4 mmol/kg	18 mmol	1 hour	Dilute to 0.5mmol/mL with NS (preferred)/G5
Sodium bicarbonate 8.4% [1mmol/mL]	1 mmol/kg	45 mmol	Rate of 10mmol/min	<2 years: dilute with equal vol. of NS/G5/WFI

Seizures/Intracranial Pressure

Drug	Dose/kg	Calculated Dose	Administer Over	Dilution
Lorazepam CD	0.1 mg/kg	4 mg	Rapid injection over 1 minute	Dilute to 2mg/mL with equal volume of NS/G5
Levetiracetam	40 mg/kg	1.8 g	5 minutes	Dilute to 50mg/mL (neonates: 100mg/mL) with NS/G5
Phenobarbital CD	20 mg/kg	900 mg	20 minutes	Dilute to 20mg/mL with WFI
Phenytoin	20 mg/kg	900 mg	20 minutes	Dilute to 5-10mg/mL with NS (use 0.22-0.5micron filter)
Sodium chloride 2.7 - 3%	3 - 5 mL/kg	135 - 225 mL	10 - 15 minutes	Neat (2.7% preferred as pre-made solution)
Mannitol 20%	0.25 - 1 g/kg	56.3 - 225 mL	15 - 30 minutes	Neat (15micron filter recommended)

Asthma

Drug	Dose/kg	Calculated Dose	Administer Over	Dilution
Magnesium sulfate 50% [500mg/mL]	40 mg/kg	1.8 g	Over 20 minutes	Dilute to 20mL with NS
Salbutamol 1-23 months over 2 years	5 microg/kg	225 microg	5-10 minutes	Dilute to 5mL with NS/G5
	15 microg/kg	250 microg	5-10 minutes	Dilute to 5mL with NS/G5

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Affix Patient Label Here

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Inotropes/Vasoactives

Infusion	Drug Amount	Diluent	Total Volume	Dose	Rate
● Adrenaline (1:1000) [1mg/mL] central	13.5 mg	NS or G5	50 mL	0.1 - 1.5 microg/kg/min	1 mL/hr = 0.1 microg/kg/min
Adrenaline (1:1000) [1mg/mL] peripheral	13.5 mg	NS or G5	500 mL	0.1 - 1.5 microg/kg/min	10 mL/hr = 0.1 microg/kg/min
● Amiodarone hydrochloride	120 mg	G5	50 mL	5 - 25 microg/kg/min	11.25 mL/hr = 10 microg/kg/min
Dinoprostone (Prostin®) neonates only					
● Isoprenaline under 12 years	1.35 mg	G5	50 mL	0.02 - 1 microg/kg/min	10 mL/hr = 0.1 microg/kg/min
over 12 years	3 mg	G5	50 mL	0.5 - 20 microg/min	1 mL/hr = 1 microg/min
Milrinone peripheral	10 mg	NS or G5	50 mL	0.25 - 0.75 microg/kg/min	6.75 mL/hr = 0.5 microg/kg/min
● Noradrenaline central	13.5 mg	NS or G5	50 mL	0.1 - 1.5 microg/kg/min	1 mL/hr = 0.1 microg/kg/min
Noradrenaline peripheral	8 mg	NS or G5	500 mL	0.1 - 1.5 microg/kg/min	16.88 mL/hr = 0.1 microg/kg/min
● Vasopressin (argipressin)	45 units	NS or G5	50 mL	0.0003 - 0.002 units/kg/min	1 mL/hr = 0.0003 units/kg/min

Sedatives/Analgesics/Muscle Relaxants

Infusion	Drug Amount	Diluent	Total Volume	Dose	Rate
Fentanyl CD	2250 microg	NS or G5	50 mL	1 - 10 microg/kg/hr	1 mL/hr = 1 microg/kg/hr
● Ketamine CD central	1350 mg	NS or G5	50 mL	10 - 45 microg/kg/min	1 mL/hr = 10 microg/kg/min
Ketamine CD peripheral	500 mg	Neat	50 mL	10 - 45 microg/kg/min	4.05 mL/hr = 15 microg/kg/min
Morphine CD	45 mg	NS or G5	50 mL	5 - 60 microg/kg/hr	1 mL/hr = 20 microg/kg/hr
Midazolam CD	100 mg	NS or G5 or Neat	50 mL	0 - 10 mg/hr	1 mL/hr = 2 mg/hr
Propofol 1% maximum 12 hours	500 mg	Neat	50 mL	1 - 4 mg/kg/hr	4.5 mL/hr = 1 mg/kg/hr
Rocuronium bromide	500 mg	Neat	50 mL	300 - 1000 microg/kg/hr	4.5 mL/hr = 1000 microg/kg/hr

Bronchodilators

Infusion	Drug Amount	Diluent	Total Volume	Dose	Rate
Aminophylline loading dose	500 mg	NS	500 mL	270 mg (6mg/kg)	270 mL over 20 minutes
followed by under 12 years	500 mg	NS	500 mL	1 mg/kg/hr	45 mL/hr = 1 mg/kg/hr
over 12 years	500 mg	NS	500 mL	0.5 - 0.7 mg/kg/hr	22.5 mL/hr = 0.5 mg/kg/hr
Magnesium sulphate 50% [500mg/mL]	5 g	G5	50 mL	2 g/hr	20 mL/hr over 4 hours
Salbutamol peripheral	10 mg	NS or G5	50 mL	20 microg/min	6 mL/hr = 20 microg/min

monitor for extravasation

Disclaimer: All medicines to be given INTRAVENOUSLY unless otherwise stated. It is the responsibility of the clinician to ensure drugs are used appropriately according to the clinical situation and doses double checked. NWTs/ODN does not accept any liability. Use of these monographs is at the clinician's own risk. Due to stock shortages and regional variation in available preparations, not every dose can be rounded to a measurable volume - clinical judgement is required to determine the most appropriate dose.

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