INTRAVENOUS STAT DOSES

8 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

NWTS North West & North Wales Paediatric Transport Service

YODN NORTHWEST SiC LTV PCC NHS

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		4 mg		Neat or with NS/G5 to convenient vol.
Atropine sulfate	20 microg/kg		160 microg		Neat or with NS/G5 to convenient vol.
Fentanyl CD	1 - 5 microg/kg		8 - 40 microg		Neat or with NS/G5 to convenient vol.
Ketamine CD	1 - 2 mg/kg		8 - 16 mg		Neat or with NS/G5 to convenient vol.
Midazolam CD	0.1 - 0.2 mg/kg		0.8 - 1.6 mg		Dilute to 1mg/mL with NS/G5
Rocuronium bromide	0.6 - 1 mg/kg		4.8 - 8 mg		Neat or with NS/G5 to convenient vol.
Suxamethonium chloride	2 mg/kg		16 mg		Neat or with NS/G5 to convenient vol.
Thiopental sodium	2 - 5 mg/kg		16 - 40 mg		Reconstitute to 25mg/mL with 20mL NS/G5/WFI

Fluid Bolus

Dose/kg	Calculated Volume
10mL/kg	80 mL
5mL/kg	40 mL

Maintenance Fluids

%	Daily Allowance	Rate
100%	800 mL/day	33.3 mL/hr
75%	600 mL/day	25.0 mL/hr
50%	400 mL/day	16.7 mL/hr

Cardiac Arrest/Arrhythmias

Drug	Dose/kg		Calculated Dose		Administer Over	Dilution
Adenosine	0.1 - 0.5 mg/kg		0.8 - 4 mg		2 seconds	Neat or dilute to 0.5mg/mL with 6mL NS
Adrenaline (1:10,000) [100microg/mL]	0.01 mg/kg		0.08 mg		Rapid injection	Neat
Amiodarone hydrochloride cardiac arrest	5 mg/kg		40 mg		3 minutes	Neat or dilute to 7.5 - 15mg/mL with G5
loading dose - arrhythmias	5 - 10 mg/kg		40 - 80 mg		20 minutes - 2 hours	Dilute to 0.6 - 2.4mg/mL with G5
Calcium GLUCONATE 10% [0.22mmol/mL]	0.11 mmol/kg		0.88 mmol		5 - 10 minutes	Neat or dilute each 1mL with 4mL of NS/GS
Glucose 10%	2 mL/kg		16 mL		2 - 5 minutes	Neat
Magnesium sulfate 50% [500mg/mL]	25 - 50 mg/kg		200 - 400 mg		20 minutes	Dilute each 1mL with 4mL of NS/G5
● **Potassium chloride 15% [2mmol/mL]** CD	0.4 mmol/kg		3.2 mmol		1 hour	Dilute to 0.5mmol/mL with NS (preferred)/G5
Sodium bicarbonate 8.4% [1mmol/mL]	1 mmol/kg		8 mmol		At least 3 minutes	<2 years: dilute with equal vol. of NS/G5/WFI

Seizures/Intracranial Pressure

Drug	Dose/kg		Calculated Dose		Adminster Over	Dilution
Lorazepam CD	0.1 mg/kg		0.8 mg		Rapid injection over 1 minute	Dilute to 2mg/mL with equal volume of NS/G5
Levitiracetam	40 mg/kg		320 mg		5 minutes	Dilute to 50mg/mL (neonates: 100mg/mL) with NS/G5
Phenobarbital CD	20 mg/kg		160 mg		20 minutes	Dilute to 20mg/mL with WFI
Phenytoin	20 mg/kg		160 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		24 - 40 mL		10 - 15 minutes	Neat (2.7% preferred as pre-made solution)
Mannitol 20%	0.25 - 1 g/kg		10 - 40 mL		15 - 30 minutes	Neat (15micron filter recommended)

Asthma

Drug	Dose/kg		Calculated Dose		Adminster Over	Dilution
Magnesium sulfate 50% [500mg/mL]	40 mg/kg		320 mg		Over 20 minutes	Dilute to 20mL with NS
Salbutamol 1-23 months	5 microg/kg		40 microg		5-10 minutes	Dilute to 5mL with NS/G5
over 2 years	15 microg/kg		120 microg		5-10 minutes	Dilute to 5mL with NS/G5

INTRAVENOUS INFUSIONS

8 kg

Affix Patient Label Here

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Inotropes/Vasoactives

Infusion		Drug Amount	Diluent	Total Volume	Dose	Rate
● **Adrenaline (1:1000)** [1mg/mL]	central	2.4 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	2.4 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	1 mL/hr = 5 microg/kg/min
Dinoprostone (Prostin®)	neonates only					
● **Isoprenaline**	under 12 years	0.24 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	1.2 mL/hr = 0.5 microg/kg/min
● **Noradrenaline**	central	2.4 mg	NS or G5	50 mL	0.1 - 1.5 microg/kg/min	1 mL/hr = 0.1 microg/kg/min
Noradrenaline	peripheral	2.4 mg	NS or G5	500 mL	0.1 - 1.5 microg/kg/min	10 mL/hr = 0.1 microg/kg/min
● **Vasopressin (argipressin)**		8 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	al Volume	Dose	Rate
Fentanyl CD		400 microg	NS or G5	50 mL	1 - 10 microg/kg/hr	1 mL/hr = 1 microg/kg/hr
● **Ketamine** CD	central	240 mg	NS or G5	50 mL	10 - 45 microg/kg/min	1 mL/hr = 10 microg/kg/min
Ketamine CD	peripheral	240 mg	NS or G5	50 mL	10 - 45 microg/kg/min	1 mL/hr = 10 microg/kg/min
Morphine CD		8 mg	NS or G5	50 mL	5 - 60 microg/kg/hr	1 mL/hr = 20 microg/kg/hr
Midazolam CD		24 mg	NS or G5	50 mL	30 - 300 microg/kg/hr	1 mL/hr = 60 microg/kg/hr
Propofol 1%	maximum 12 hours	500 mg	Neat	50 mL	1 - 4 mg/kg/hr	0.8 mL/hr = 1 mg/kg/hr
Rocuronium bromide		500 mg	Neat	50 mL	300 - 1000 microg/kg/hr	0.8 mL/hr = 1000 microg/kg/hr

Bronchodilators

Infusion		Drug Amount	Diluent	al Volume	Dose	Rate
Aminophylline	loading dose	500 mg	NS	500 mL	48 mg (6mg/kg)	48 mL over 20 minutes
followed by	under 12 years	500 mg	NS	500 mL	1 mg/kg/hr	8 mL/hr = 1 mg/kg/hr
	over 12 years	500 mg	NS	500 mL	0.5 - 0.7 mg/kg/hr	4 mL/hr = 0.5 mg/kg/hr
Magnesium sulphate 50% [500mg/mL]		5 g	G5	50 mL	50 mg/kg/hr	4 mL/hr over 4 hours
Salbutamol	peripheral	10 mg	NS or G5	50 mL	0.5-1 microg/kg/min	1.2 mL/hr = 0.5 microg/kg/min
monitor for extravasation					*maximum 20microg/min*	

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