

PICU AND THEATRE, CHILDREN'S HEALTH IRELAND NON-CONTINUOUS INFUSIONS			Final Volume to be Infused (VTBI) (mL)	Prescribed Dose SCI
Drug	Weight Band	Standard Concentration Infusion (SCI)	Default Dose	VTBI (mL) All Weights in kg
Acetylcysteine Dose 1 (CVAD ideally) Pts <40kg only	All	50mg/mL	None	Variable
Acetylcysteine Maintenance Dose 2 (CVAD ideally) Pts <40kg only	All	6.25mg/mL	None	Variable
Acetylcysteine Maintenance Dose 3 (CVAD ideally) Pts <40kg only	All	6.25mg/mL	None	Variable
Acetylcysteine > 40kg (All doses)	>20kg ONLY	Variable	None	Variable
Aciclovir	All	5mg/mL	None	Variable
		High Strength: 25mg/mL (Neat) CVAD		
Albumin 20%	All	0.2g/mL	1 g/kg	5 x Wt
Alteplase Load	See continuous infusions SCI table			
Amikacin	All	2.5mg/mL	None	Variable
		High Strength: 10mg/mL		
Aminophylline Load	See continuous infusions SCI table			
Amiodarone Load	See continuous infusions SCI table			
Amoxicillin Weight-based (>20kg also offered non weight-based option below)	All	50mg/mL	None	Variable
Amoxicillin 0.5-2g NON weight-based (Pts > 20kg)	>20kg ONLY	50mg/mL	None	Variable
Amphotericin B (Ambisome)	All ≤5kg	1mg/mL	None	Variable
	All >5kg	2mg/mL Glucose 5%w/v ONLY		
Benzylpenicillin Weight-based (>20kg also offered non weight-based option below)	≤2.5kg	25mg/mL	None	Variable
	All >2.5kg	High Strength: 50mg/mL		
		50mg/mL only		
Benzylpenicillin 600-2400mg NON weight-based (Pts > 20kg)	>20kg ONLY	50mg/mL	None	Variable
Calcium Gluconate CVAD Bolus Weight-based (>20kg also offered non weight-based option below)	All	0.225mmol/mL (Neat)	0.11 mmol/kg	0.487 x Wt
Calcium Gluconate 4.5mmol CVAD Bolus NON weight-based (Pts > 20kg)	>20kg ONLY	0.225mmol/mL (Neat)	4.5 mmol	20mL
Calcium Gluconate Peripheral Bolus Weight-based (>20kg also offered non weight-based option below)	All	0.045mmol/mL	0.11 mmol/kg	2.44 x Wt
Calcium Gluconate 4.5mmol Peripheral Bolus NON weight-based (Pts > 20kg)	>20kg ONLY	0.045mmol/mL	4.5 mmol	100mL
Caspofungin BSA dosing	All	0.5mg/mL	None	Variable
		NaCl 0.9%w/v ONLY		
Cefotaxime Weight-based (>20kg also offered non weight-based option below)	All ≤2.5kg	20mg/mL	None	Variable
	All >2.5kg	50mg/mL		
Cefotaxime 0.5-4g NON weight-based (Pts > 20kg)	>20kg ONLY	50mg/mL	None	Variable
Ceftaz/avibactam Weight-based (>20kg also offered non weight-based option below)	≤10kg	20mg/mL	None	Variable
	All >10kg	50mg/mL		
Ceftaz/avibactam non-weight based NON weight-based (Pts > 20kg)	>20kg	50mg/mL	2.5 g	50mL

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Ceftazidime Weight-based (>20kg also offered non weight-based option below)	≤2.5kg All >2.5kg	20mg/mL 40mg/mL	None	Variable
Ceftazidime 0.5-3g NON weight-based (Pts > 20kg)	>20kg	40mg/mL	None	Variable
Ceftriaxone Weight-based (>20kg also offered non weight-based option below)	All	50mg/mL	None	Variable
Ceftriaxone 0.5-4g NON weight-based (Pts > 20kg)	>20kg	50mg/mL	None	Variable
Cefuroxime Weight-based (>20kg also offered non weight-based option below)	≤2.5kg	10mg/mL High Strength: 30mg/mL	None	Variable
	All >2.5kg	30mg/mL only		
Cefuroxime 0.75-1.5g NON weight-based (Pts > 20kg)	>20kg ONLY	30mg/mL	None	Variable
Ciclosporin	≤5kg >5 - ≤10kg >10kg	0.5mg/mL 1mg/mL 2.5mg/mL	None	Variable
Ciprofloxacin Weight-based (>20kg also offered non weight-based option below)	All	2mg/mL	10 mg/kg	5 x Wt
Ciprofloxacin 400mg NON weight-based (Pts > 20kg)	>20kg ONLY	400mg/200mL	400 mg	200mL
Clindamycin Weight-based (>20kg also offered non weight-based option below)	All ≤20kg >20kg	6mg/mL 18mg/mL	None	Variable (Max rate 20mg/kg/hr)
	>20kg ONLY	18mg/mL	None	Variable
Clonidine (Non Continuous) CVAD (ideally)	≤5kg >5 - ≤20kg >20kg	0.5 mcg/mL 2 mcg/mL 5 mcg/mL High Strength: All weights: 6mg/mL	None	Variable
	All	10mg/mL	30 mg/kg	3 x Wt
Co-amoxiclav Weight-based	All	10mg/mL	1.2 g	120mL
Co-Trimoxazole CVAD (ideally) Weight-based (>20kg also offered non weight-based option below)	All	3.69mg/mL High Strength: 6mg/mL	None	Variable
	All	96mg/mL (Neat)	None	Variable
Co-Trimoxazole NEAT (CVAD only) Weight-based (>20kg also offered non weight-based option below)	All	96mg/mL (Neat)	None	Variable
Co-Trimoxazole 0.96-1.44g CVAD (ideally) NON weight-based (Pts > 20kg)	>20kg ONLY	3.69mg/mL High Strength: 6mg/mL	None	Variable
	>20kg ONLY	96mg/mL (Neat)	None	Variable
Co-Trimoxazole 0.96-1.44g NEAT (CVAD only) NON weight-based (Pts > 20kg)	>20kg ONLY	96mg/mL (Neat)	None	Variable
Dexamethasone anti-emetic BSA dosing	All	1 mg/mL	None	Variable
Dexmedetomidine Load	See continuous infusions SCI table			
Ecilizumab	>5kg ONLY	5mg/mL	None	Variable
Esomeprazole < 1 year Weight-based (Pts <20kg)	≤2.5kg >2.5 - <20kg	0.4mg/mL 0.8mg/mL NaCl 0.9%w/v ONLY	0.5 mg/kg	1.25 x Wt 0.625 x Wt
	All >5kg	0.8mg/mL NaCl 0.9%w/v ONLY	5-20kg: 10 mg >20kg: None	5-20kg: 12.5mL >20kg: Variable
Esomeprazole > 12 years NON weight-based	>20kg ONLY	0.8mg/mL NaCl 0.9%w/v ONLY	None	Variable

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Flecainide Load	See continuous infusions SCI table			
Flucloxacillin Weight-based (>20kg also offered non weight-based option below)	All ≤10kg All >10kg	25mg/mL 50mg/mL	None	Variable
Flucloxacillin 0.25-2g NON weight-based (Pts > 20kg)	>20kg ONLY	50mg/mL	None	Variable
Fluconazole Weight-based (>20kg also offered non weight-based option below)	All	2mg/mL	None	Variable (Max rate 20mg/min)
Fluconazole 50-800mg NON weight-based (Pts > 20kg)	>20kg ONLY	2mg/mL	None	Variable (Max rate 20mg/min)
Furosemide (bolus) Weight-based (>20kg also offered non weight-based option below)	≤2.5kg >2.5 - ≤5kg >5 - ≤20kg >20kg	0.5mg/mL 1 mg/mL 2mg/mL 4mg/mL	None	Variable
Furosemide 20-40mg (bolus) NON weight-based (Pts > 20kg)	>20kg ONLY	4mg/mL	None	Variable
Gentamicin	All	2mg/mL High Strength: 10mg/mL	None	Variable
Heparin Load	See continuous infusions SCI table			
Iron Sucrose Weight-based (>20kg also offered non weight-based option below)	All	1mg/mL	None	Variable
Iron Sucrose 200mg NON weight-based (Pts > 20kg)	>20kg ONLY	200mg/100mL	200 mg	100mL
Lacosamide CVAD (ideally) Weight-based (>20kg also offered non weight-based option below)	≤2.5kg >2.5 - ≤10kg All >10kg All	*1*mg/mL 2.5mg/mL 5mg/mL High Strength: *10*mg/mL	None	Variable
Lacosamide 50-300mg NON weight-based (Pts > 20kg) CVAD (ideally)	>20kg ONLY	5mg/mL High Strength: 10mg/mL	None	Variable
Levetiracetam Weight-based (>20kg also offered non weight-based option below)	All ≤5kg All >5kg	7.5mg/mL 15mg/mL	None	Variable
Levetiracetam 250-2500mg NON weight-based (Pts > 20kg)	>20kg ONLY	15mg/mL	None	Variable
Linezolid CVAD (ideally) Weight-based (>20kg also offered non weight-based option below)	All	2mg/mL	10 mg/kg	5 x Wt
Linezolid 600mg CVAD (ideally) NON weight-based (Pts > 20kg)	>20kg ONLY	600mg/300mL	600 mg	300mL
Liothyronine Load	See continuous infusions SCI table			
Magnesium Sulphate Peripheral Bolus Weight-based (>20kg also offered non weight-based option below)	All	0.2mmol/mL	0.2 mmol/kg	1 x Wt
Magnesium Sulphate Peripheral Bolus 4-8mmol (1-2g) NON weight-based (Pts > 20kg)	>20kg ONLY	0.2mmol/mL	None	Variable
Magnesium Sulphate CVAD Bolus Weight-based (>20kg also offered non weight-based option below)	All ≤5kg All >5kg	0.2mmol/mL High Strength: 0.4mmol/mL 0.4mmol/mL High Strength: 0.8mmol/mL	0.2 mmol/kg	0.2mmol/mL: 1 x Wt 0.4mmol/mL: 0.5 x Wt 0.8mmol/mL: 0.25 x Wt
Magnesium Sulphate CVAD Bolus 4-8mmol (1-2g) NON weight-based (Pts > 20kg)	>20kg ONLY	0.4mmol/mL High Strength: 0.8mmol/mL	None	Variable
Mannitol 20%	All ≤5kg >5 - ≤10kg All >10kg	10g/50mL 10g/50mL or 100g/500mL 100g/500mL	1 g/kg	5 x Wt

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Meropenem Weight-based	≤2.5kg All >2.5kg	10mg/mL 20mg/mL	None (Max single dose 2g)	Variable
Meropenem 0.5-2g NON weight-based	All	20mg/mL	None	Variable
Metronidazole Weight-based (Pts < 60kg) (>20kg also offered non weight-based option below)	All	5mg/mL	7.5 mg/kg	1.5 x Wt
Metronidazole 500mg NON weight-based (Pts > 20kg)	>20kg ONLY	500mg/100mL (Infusomat ONLY)	500 mg	100mL
Milrinone Load	See continuous infusions SCI table			
Pamidronate	All	0.36mg/mL	None	Variable
Paracetamol under 10kg Weight-based	≤10kg	10mg/mL	7.5 mg/kg	0.75 x Wt
Paracetamol 10kg and over Weight-based	All >10kg	10mg/mL	15 mg/kg	1.5 x Wt
Paracetamol 0.5-1g NON weight-based	>20kg ONLY	10mg/mL	None	Variable
PDA Closure Paracetamol <i>not for use for analgesia</i>	All >10kg	10mg/mL	None	Variable
Phenobarbitone Load Weight-based (>20kg also offered non weight-based option below)	≤2.5kg All >2.5kg	6mg/mL 20mg/mL	20 mg/kg	3.33 x Wt 1 x Wt
Phenobarbitone Load 1g NON weight-based (Pts > 20kg)	>20kg ONLY	20mg/mL	1 g	50mL
Phenobarbitone Maintenance (CVAD ideally) Weight-based (>20kg also offered non weight-based option below)	≤5kg All >5kg	3mg/mL 5mg/mL	None	Variable
Phenobarbitone Maintenance 300mg (CVAD ideally) NON weight-based (Pts > 20kg)	>20kg ONLY	5mg/mL	300 mg	60mL
Phenytoin Load Weight-based (>20kg also offered non weight-based option below)	≤2.5kg >2.5 - ≤20kg >20kg	2.5mg/mL 5mg/mL 10mg/mL	20 mg/kg	8 x Wt 4 x Wt 2 x Wt
Phenytoin Load 0.2-2g NON weight-based (Pts > 20kg)	>20kg ONLY	10mg/mL	1 g	100mL
Phenytoin Maintenance Weight-based (>20kg also offered non weight-based option below)	≤2.5kg >2.5 - ≤20kg >20kg	2.5mg/mL 5mg/mL 10mg/mL	None	Variable
Phenytoin Maintenance 100mg NON weight-based (Pts > 20kg)	>20kg ONLY	10mg/mL	100 mg	10mL
Piperacillin and Tazobactam Weight-based (>20kg also offered non weight-based option below)	All ≤5kg All >5kg	45mg/mL 90mg/mL	90 mg/kg	2 x Wt 1 x Wt
Piperacillin and Tazobactam 2.25-4.5g NON weight-based (Pts > 20kg)	>20kg ONLY	90mg/mL	None	Variable
Potassium Chloride CVAD Weight-based (>40kg offered non weight-based option below)	All	0.2mmol/mL	0.5 mmol/kg	2.5 x Wt
Potassium Chloride CVAD 10-20mmol NON weight-based (Pts > 40kg)	>40kg ONLY	20mmol/100mL	None	Variable
Potassium Chloride Peripheral Weight-based (>40kg offered non weight-based option below)	All	0.04 mmol/mL	0.5 mmol/kg	12.5 x Wt
Potassium Chloride Peripheral 10-20mmol NON weight-based (Pts > 40kg)	>40kg ONLY	0.04 mmol/mL	None	Variable

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Potassium Chloride Ultra High Concentration Weight-based (>40kg offered non weight-based option below)	All	0.5 mmol/mL CVAD only	0.5 mmol/kg	1 x Wt
Potassium Chloride Ultra High Concentration 10-20mmol NON weight-based (Pts > 40kg)	>40kg ONLY	0.5 mmol/mL CVAD only	None	Variable
Potassium with Electrolytes CVAD ONLY	<20kg ONLY	0.2mmol/mL	0.5 mmol/kg	2.5 x Wt
Potassium Phosphate 0.036mmol/mL CVAD (St John's, BMT, PICU only)	All	0.036mmol/mL	None	Variable
Potassium Phosphate 0.12mmol/mL CVAD	All	0.12mmol/mL	None	Variable
Potassium Phosphate <u>Peripheral</u>	All	0.024mmol/mL	None	Variable
Ranitidine Weight-based (>20kg also offered non weight-based option below)	All ≤10kg All >10kg	0.5mg/mL 1mg/mL	None	Variable
Ranitidine 50mg NON weight-based (Pts > 20kg)	>20kg ONLY	1mg/mL	50 mg	50mL
Rifampicin Weight-based (>20kg also offered non weight-based option below)	All	1.2mg/mL	None	Variable
Rifampicin 0.15-0.6g NON weight-based (Pts > 20kg)	>20kg ONLY	1.2mg/mL	None	Variable
Sildenafil Load	See continuous infusions SCI table			
Sodium Bicarbonate Bolus CVAD	All	0.2mmol/mL	None	Variable
Sodium Bicarbonate Bolus <u>Peripheral</u>	All	0.1mmol/mL	None	Variable
Sodium Chloride 3%	All	0.5mmol/mL	1.5 mmol/kg	3 x Wt
Sodium Valproate CVAD (ideally) Weight-based (>20kg also offered non weight-based option below)	≤2.5kg >2.5 - ≤20kg >20kg	5mg/mL 10mg/mL 20mg/mL	None	Variable
Sodium Valproate 0.4-1.2g CVAD (ideally) NON weight-based (Pts > 20kg)	>20kg ONLY	20mg/mL	400 mg	20mL
Teicoplanin	All ≤2.5kg All >2.5kg	5mg/mL 10mg/mL	None	Variable
Tranexamic Acid Wt-Based Slow Bolus Dilute Weight-based (>20kg also offered non weight-based option below)	All	20mg/mL	10 mg/kg	0.5 x Wt
Tranexamic Acid Wt-Based Slow Bolus NEAT Weight-based (>20kg also offered non weight-based option below)	All	100mg/mL (Neat)	10 mg/kg	0.1 x Wt
Tranexamic Acid 1-2g Slow Bolus NEAT NON weight-based (Pts > 20kg)	>20kg ONLY	100mg/mL (Neat)	1 g	10mL
Tranexamic Acid Load (Pre Continuous Infusion)	See continuous infusions SCI table			
Vancomycin Weight-based (>20kg also offered non weight-based option below)	All	5mg/mL High Strength: 10mg/mL (CVAD only)	15 mg/kg	3 x Wt (Max rate 10mg/minute) 1.5 x Wt

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Vancomycin 0.75-2g NON weight-based (Pts > 20kg)	>20kg ONLY	5mg/mL	None	Variable (Max rate 10mg/minute)
		High Strength: 10mg/mL (CVAD only)		
Voriconazole	>5kg ONLY	5mg/mL	None	Variable *maximum rate 3mg/kg/hr*

Available on the drug library with no fixed concentration:

Albumin 5%	Flush Replogle	Infliximab	Red Cells
IV Fluids incl bolus	Flush TAT	Octoplas	Rituximab
Flush PICC 1Fr Line	Gelofusine 4%	Platelets	Tocilizumab
Flush Post Dose	Glucose 10% Bolus	PN (formerly TPN)	Vedolizumab

Disclaimer: Every effort has been made to ensure the information is accurate and up to date and the authors cannot accept any legal responsibility for any errors or omissions. Differences in available drug preparations, and the manner in which concentrations are expressed, can produce minor discrepancies in final concentrations and calculated flow rates. In recognition of the need to stabilise children, other settings/hospitals may refer to this table but are solely responsible for all acts or omissions carried out in connection with, or in reliance on, the material provided.