

PICU AND THEATRE, C				Flow rate	Prescribed Dose x	Default Rate (mL/hour)
CONTINUOUS INFUS	SIONS AND I	LOADING DOSES		(mL/hour)	Default	Start Dose
Drug	Weight	SCI (Normal)	Default Dose and Rate Calculator All Weights in kg - rounding can occur		High Strength SCI	High Strength
g	Band		Default Start Dose	Default Rate (mL/hr)		Default Rate (mL/hr)
Adenosine	All ≤5kg	3mg/mL (Neat)	25 microgram/kg/min	0.5 x Wt	n/a	n/a
Adrenaline	All ≤5kg	1mg/50mL	0.05 microgram/kg/min	0.15 x Wt	3mg/50mL	0.05 x Wt
	>5 - ≤10kg	3mg/50mL		0.05 x Wt	6mg/50mL	0.025 x Wt
	All >10kg	6mg/50mL		0.025 x Wt	12mg/50mL	0.0125 x Wt
Adrenaline Peripheral	All ≤10kg	1mg/50mL	0.05 microgram/kg/min	0.15 x Wt	n/a	n/a
For emergency use pending central access	All >10kg	3mg/50mL		0.05 x Wt		
Alteplase Loading Dose	≤2.5kg	0.2mg/mL	0.1 mg/kg	VTBI (mL) = 0.5 x Wt	n/a	n/a
Weight-based	>2.5 - ≤5kg	0.5mg/mL	over 10 mins	VTBI (mL) = 0.2 x Wt		
	>5 - ≤10kg	1mg/mL		VTBI (mL) = $0.1 \times Wt$		
>20kg also offered non weight-based option below	All >10kg	2mg/mL		VTBI (mL) = 0.05 x Wt		
ariable volume; use the same solution for load and continuous infus		in NaCl 0.9%w/v ONLY	0.1 mg/kg/bour	0 E x \\\/	nla	nla
Alteplase Infusion Weight-based	≤2.5kg >2.5 - ≤5kg	0.2mg/mL 0.5mg/mL	0.1 mg/kg/hour	0.5 x Wt 0.2 x Wt	n/a	n/a
vveight-based	>2.5 - ≤5kg >5 - ≤10kg	1mg/mL		0.2 x Wt 0.1 x Wt		
> OOka alaa affarad wax weight based antian balaw	All >10kg	2mg/mL		0.05 x Wt		
>20kg also offered non weight-based option below	7 un × rong	in NaCl 0.9%w/v ONLY		0.00 × 111		
Alteplase Load	>20kg	2mg/mL	10 mg	VTBI = 5mL	n/a	n/a
NON weight-based	Long	(variable volume)	over 10 mins	VIDI ONE	174	1.10
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Alteplase Infusion	>20kg	2mg/mL	15 mg/hour	7.5mL/hour	n/a	n/a
NON weight-based		(variable volume)				
Aminophylline Load CVAD	All <10kg	250mg/ 25 mL	5 mg/kg	VTBI (mL) = 0.5 x Wt	n/a	n/a
	10 - 20kg	500mg/50mL	over 30mins	VTBI (mL) = 0.5 x Wt		
	>20kg	1000mg/50mL		VTBI (mL) = 0.25 x Wt		
se the same solution for load and maintenance infusion						
Aminophylline Maintenance <u>CVAD</u>	All <10kg	250mg/ 25 mL	0.5 mg/kg/hour	0.05 x Wt	n/a	n/a
	10 - 20kg	500mg/50mL		0.05 x Wt		
	>20kg	1000mg/50mL		0.025 x Wt		
Aminophylline Load Peripheral	≤2.5kg	50mg/50mL	5 mg/kg	VTBI (mL) = 5 x Wt	n/a	n/a
	All >2.5kg	50mg/50mL or	over 30mins			
		500mg/500mL				
se the same solution for load and maintenance infusion	>20kg	500mg/500mL ONLY				
Aminophylline Maintenance Peripheral	≤2.5kg	50mg/50mL	0.5 mg/kg/hour	0.5 x Wt	n/a	n/a
	All >2.5kg	50mg/50mL or				
		500mg/500mL				



CHILDREN'S HEALTH IRELAND SMART PUMP DRUG LIBRARY VERSION 5

All versions of this table issued before September 2023 are no longer valid

Children's Health Ireland PICU AND THEATRE, C	HILDREN'S	HEALTH IRELAND		Flow rate	Prescribed Dose x	<u> Default Rate (mL/hour)</u>
CONTINUOUS INFUS	IONS AND I	LOADING DOSES		(mL/hour)	Default S	tart Dose
	Weight		Default Dose and			High Strength
Drug	Band	SCI (Normal)	All Weights in kg - I		High Strength SCI	Default Rate (mL/hr)
			Default Start Dose	Default Rate (mL/hr)		
Amiodarone Load CVAD	All ≤5kg	50mg/50mL	5 mg/kg	VTBI (mL) = $5 \times Wt$	150mg/50mL	VTBI (mL) = 1.67 x Wt
Weight-based	>5 - ≤10kg	150mg/50mL	over 1 hour	VTBI (mL) = 1.67 x Wt	300mg/50mL	VTBI (mL) = 0.83 x Wt
	>10 - ≤20kg	300mg/50mL		VTBI (mL) = $0.83 \times Wt$	600mg/50mL	VTBI (mL) = $0.42 \times Wt$
>60kg also offered non weight-based option below	>20kg	600mg/50mL		VTBI (mL) = 0.42 x Wt	1200mg/50mL	VTBI (mL) = 0.21 x Wt
Use the same solution for load and maintenance infusion Amiodarone Maintenance CVAD	All ≤5kg	in Glucose 5%w/v ONLY 50mg/50mL	5 microgram/kg/min	0.3 x Wt	in Glucose 5%w/v ONLY 150mg/50mL	0.1 x Wt
Weight-based	>5 - ≤10kg	150mg/50mL	5 microgram/kg/min	0.3 x Wt 0.1 x Wt	300mg/50mL	0.1 X Wt 0.05 X Wt
Weight-based	>10 - ≤20kg	300mg/50mL		0.05 x Wt	600mg/50mL	0.025 x Wt
>60kg see non-weight based option below	>20kg	600mg/50mL		0.025 x Wt	1200mg/50mL	0.0125 x Wt
Cong doe non weight baded option below		in Glucose 5%w/v ONLY			in Glucose 5%w/v ONLY	
Amiodarone Load CVAD (300mg Dose)	>20kg	600mg/50mL	300 mg	VTBI = 25mL	1200mg/50mL	VTBI = 12.5mL
NON weight-based (Pts >60kg)	ONLY		over 1 hour			
Use the same solution for load and maintenance infusion		in Glucose 5%w/v ONLY			in Glucose 5%w/v ONLY	
Amiodarone Maintenance CVAD	>20kg	600mg/50mL	50 mg/hr	4.2ml/hr for 1 hour	1200mg/50mL	2.1mL/hour
NON weight-based (Pts >60kg)	ONLY		(if load given, reduce to	(3.33ml/hr at 40mg/hr)		
			40mg/hr for next 23 hours)			
		in Glucose 5%w/v ONLY				
Amiodarone Load Peripheral	All <10kg	50mg/50mL	5 mg/kg	VTBI (mL) = $5 \times Wt$	n/a	n/a
Weight-based >60kg also offered non weight-based option below	All >10kg	300mg/ 250 mL	over 1 hour	VTBI (mL) = 4.2 x Wt		
Use the same solution for load and maintenance infusion		in Glucose 5%w/v ONLY				
Amiodarone Maintenance Peripheral	All	50mg/50mL or	5 microgram/kg/min	0.3 x Wt	n/a	n/a
Weight-based	7 41	300mg/ 250 mL	omorogramikgimin	0.25 x Wt	10a	n/a
>60kg see non-weight based option below						
		in Glucose 5%w/v ONLY				
Amiodarone Load Peripheral (300mg dose)	>20kg	300mg/ 250 mL	300 mg	VTBI = 250mL	n/a	n/a
NON weight-based (Pts >60kg)	ONLY		over 1 hour			
Use the same solution for load and maintenance infusion		in Glucose 5%w/v ONLY				
Amiodarone Maintenance Peripheral	>20kg	300mg/ 250 mL	50 mg/hr	41.7mL/hr for 1 hour	n/a	n/a
NON weight-based (Pts >60kg)	ONLY		(if load given, reduce to	(33.3ml/hr at 40mg/hr)		
			40mg/hr for next 23 hours)			
	All	in Glucose 5%w/v ONLY		$(ml) = 2.5 \times 10^{4}$		
Arginine Load	All	5g/50mL (Perfusor) or	250 mg/kg	VTBI (mL) = 2.5 x Wt	n/a	n/a
		100mg/mL (Infusomat)				
Use the same solution for load and maintenance infusion		in Glucose 10%w/v ONLY				
Arginine Maintenance	All	5g/50mL (Perfusor) or	200 mg/kg/24hours	0.083 x Wt	n/a	n/a
		100mg/mL (Infusomat)				
		in Glucose 10%w/v ONLY				
Atracurium Infusion	All ≤5kg	40mg/ 20 mL	300 microgram/kg/hr	0.15 x Wt	10mg/mL (Neat)	0.03 x Wt
	All >5kg	10mg/mL (Neat)		0.03 x Wt	n/a	n/a
		(variable volume)				



PICU AND THEATRE, C CONTINUOUS INFUS	Flow rate (mL/hour)	<u>Prescribed Dose_x_</u> Default S	Default Rate (mL/hour) tart Dose			
	Weight	001/01	Default Dose and Rate Calculator All Weights in kg - rounding can occur			High Strength
Drug	Band	SCI (Normal)	Default Start Dose	Default Rate (mL/hr)	High Strength SCI	Default Rate (mL/hr)
	A.II.	0.005 mm al/ml (Na at)			- 1-	- 1-
Calcium Gluconate <u>CVAD</u> Continuous	All	0.225mmol/mL (Neat)	0.5 mmol/kg/24hrs	0.092xWt	n/a	n/a
Weight-based		(variable volume)	5-10kg weight band only: 1 mmol/kg/24hrs	5-10 kg only: 0.184 x Wt		
Calcium Gluconate CVAD Continuous	>20kg	0.225mmol/mL (Neat)	8.8 mmol/24hrs	1.62mL/hr	n/a	n/a
(8.8mmol/24hr)	ONLY	(variable volume)	0.0 11110/24113	1.0211211	1Va	1/a
NON weight-based (Pts >20kg)	ONET	(vanabie volanie)				
Calcium Gluconate Peripheral Continuous	All	0. 0 45mmol/mL	0.5 mmol/kg/24hrs	0.462xWt	n/a	n/a
Weight-based		(variable volume)	5-10kg weight band only:			
		,	1 mmol/kg/24hrs	5-10kg only: 0.925 x Wt		
Calcium Gluconate Peripheral Continuous	>20kg	0 .0 45mmol/mL	8.8 mmol/24hrs	8.14mL/hr	n/a	n/a
(8.8mmol/24hr)	ONLY	(variable volume)				
NON weight-based (Pts >20kg)						
Clonidine	All ≤5kg	150microgram/50mL	0.5 microgram/kg/hr	0.167 x Wt	300microgram/50mL	0.084 x Wt
CVAD (ideally)	>5 - ≤10kg	300microgram/50mL		0.084 x Wt	600microgram/50mL	0.042 x Wt
	>10 - ≤20kg	600microgram/50mL		0.042 x Wt	1200microgram/50mL	0.021 x Wt
	>20kg	1200microgram/50mL		0.021 x Wt	n/a	n/a
Dexmedetomidine Load	All	200mcg/50mL	1 microgram/kg	VTBI (mL) = 0.25 x Wt	>5kg only: 400mcg/50mL	VTBI (mL) = 0.125 x Wt
		Ū	over 20min		5, 5	
Use the same solution for load and maintenance infusion						
Dexmedetomidine Maintenance	All	200mcg/50mL	0.5 microgram/kg/hr	0.125 x Wt	>5kg only: 400mcg/50mL	0.063 x Wt
Dinoprostone	All ≤10kg	50microgram/50mL	5 nanogram/kg/min	0.3 x Wt	n/a	n/a
	A II. (10)	in Glucose 5%w/v ONLY	40	0.0.10#		· · · · · · · · · · · · · · · · · · ·
Dinoprostone (High Dose)	All ≤10kg	400microgram/50mL	40 nanogram/kg/min	0.3 x Wt	n/a	n/a
Dobutamine	≤2.5kg	in Glucose 5%w/v ONLY 75mg/50mL	E mierogrom/kg/min	0.2 x Wt	150mg/50mL	0.1 x Wt
<u>CVAD</u> (ideally)	≤∠.эку >2.5 - ≤10kg	150mg/50mL	5 microgram/kg/min	0.2 x Wt	250mg/50mL CVAD only	0.06 x Wt
	All >10kg	250mg/50mL <u>CVAD</u> only		0.06 x Wt	n/a	n/a
	All > TOKY	250Hg/50HL CVAD Only		0.00 × Wt	TVa	Ti/a
Dopamine <u>Centra</u> l	≤2.5kg	75mg/50mL	5 microgram/kg/min	0.2 x Wt	150mg/50mL	0.1 x Wt
Bopannio <u>Sonaa</u>	>2.5 - ≤10kg	150mg/50mL		0.1 x Wt	250mg/50mL	0.06 x Wt
	All >10kg	250mg/50mL		0.06 x Wt	500mg/50mL	0.03 x Wt
Dopamine <u>Periphera</u> l	All	75mg/50mL or	5 microgram/kg/min	0.2 x Wt	n/a	n/a
		1.5 mg/mL				
		(variable volume)				
Epoprostenol	<10kg ONLY	20mcg/ 40 mL	2 nanogram/kg/min	0.24 x Wt	n/a	n/a
Caution: multiple concentrations available	All	80mcg/ 40 mL		0.06 x Wt		
	All	500mcg/50mL		0.012 x Wt		
	>10kg ONLY	2000mcg/50mL		0.003 x Wt		
B		Glycine diluent only	50 miles and 1 let	0.0.14#		
Esmolol	All	10mg/mL (Neat) or	50 microgram/kg/min	0.3 x Wt	n/a	n/a
CVAD (ideally)		2500mg/ 250 mL				



PICU AND THEATRE, C				Flow rate	Prescribed Dose x I	
CONTINUOUS INFUS	IONS AND L	LOADING DOSES		(mL/hour)	Default S	tart Dose
	Weight			d Rate Calculator		High Strength
Drug	Band	SCI (Normal)		rounding can occur	High Strength SCI	Default Rate (mL/hr)
			Default Start Dose	Default Rate (mL/hr)		
Fentanyl	All ≤5kg	250mcg/50mL	1 microgram/kg/hr	0.2 x Wt	500mcg/50mL	0.1 x Wt
	>5 - ≤10kg	500mcg/50mL		0.1 x Wt	1000mcg/50mL	0.05 x Wt
	>10 - ≤20kg	1000mcg/50mL		0.05 x Wt	2500mcg/50mL	0.02 x Wt
	>20kg	2500mcg/50mL		0.02 x Wt	n/a	n/a
Flecainide Load	All ≤5kg	50mg/50mL	≤5kg: None	≤5kg: Variable	n/a	n/a
	>5 - ≤10kg	50mg/50mL	>5kg: 2mg/kg	VTBI (mL) = 2 x Wt		
	>10 - ≤20kg	150mg/50mL		VTBI (mL) = 0.66 x Wt		
	>20kg	250mg/50mL		VTBI (mL) = 0.4 x Wt		
		in Glucose 5%w/v ONLY		. ,		
Use the same solution for load and continuous infusion						
Flecainide Continuous	All ≤10kg	50mg/50mL	100 microgram/kg/hr	0.1 x Wt	n/a	n/a
	>10 - ≤20kg	150mg/50mL		0.033 x Wt		
	>20kg	250mg/50mL		0.02 x Wt		
		in Glucose 5%w/v ONLY				
Furosemide Continuous	All ≤10kg	50mg/50mL	0.125 mg/kg/hr	0.125 x Wt	100mg/50mL	0.0625 x Wt
	>10 - ≤20kg	100mg/50mL		0.0625 x Wt	250mg/50mL	0.025 x Wt
	>20kg	500mg/50mL (Neat)		0.0125 x Wt	n/a	n/a
		in NaCl 0.9%w/v ONLY			in NaCl 0.9%w/v ONLY	
Glucagon	≤5kg	0.5mg/50mL	1 mcg/kg/hour	0.1 x Wt	2mg/50mL	0.025 x Wt
<u>CVAD</u> (ideally)	>5 - ≤10kg	1mg/50mL		0.05 x Wt	5mg/50mL	0.01 x Wt
	>10 - ≤20kg	2mg/50mL		0.025 x Wt	5mg/50mL	0.01 x Wt
	>20kg	5mg/50mL		0.01 x Wt	10mg/50mL	0.005 x Wt
Glyceryl Trinitrate	All ≤5kg	20mg/50mL	1 microgram/kg/min	0.15 x Wt	50mg/50mL	0.06 x Wt
<u>CVAD</u> only	All >5kg	50mg/50mL	, morogrammig, min	0.06 x Wt	n/a	n/a
<u></u> ,	7	oonig/oonie			100	1
Heparin Prophylaxis	All ≤5kg	2,500units/50mL	10 units/kg/hr	0.2 x Wt	n/a	n/a
	>5 - ≤10kg	5,000units/50mL		0.1 x Wt		
	All >10kg	10,000units/50mL		0.05 x Wt		
Heparin Load	All ≤5kg	2,500units/50mL	75 units/kg	VTBI (mL) = 1.5 x Wt	n/a	n/a
	>5 -≤20kg	10,000units/50mL	over 10mins	VTBI (mL) = 0.375 x Wt		
	>20kg	25,000units/50mL		VTBI (mL) = 0.15 x Wt		
Use the same solution for load and therapeutic infusion						
Heparin Therapy < 1yr	All ≤5kg	2,500units/50mL	28 units/kg/hr	0.56 x Wt	n/a	n/a
	>5 -≤20kg	10,000units/50mL		0.14 x Wt		
Heparin Therapy > 1yr	>5 -≤20kg	10,000units/50mL	20 units/kg/hr	0.1 x Wt	n/a	n/a
nepann melapy z iyi	>20kg	25,000units/50mL		0.04 x Wt	n/a	i va
	~20NY	20,000umits/00mit				



PICU AND THEATRE, (Flow rate	Prescribed Dose x D	
CONTINUOUS INFUS	SIONS AND I	LOADING DUSES		(mL/hour)	Default S	tart Dose
Drug	Weight Band	SCI (Normal)	Default Dose and Rate Calculator All Weights in kg - rounding can occur		High Strength SCI	High Strength Default Rate (mL/hr)
	Banu		Default Start Dose	Default Rate (mL/hr)		
Insulin	All ≤5kg	** 5 **units/50mL	≤5kg (5units/50mL):	≤5kg (5units/50mL):	All ≤5kg: 10units/50mL	All ≤5kg: <mark>0.05 x W</mark>
DKA and Hyperglycaemia	-	in NaCl 0.9%w/v ONLY	0.01 units/kg/hr	0.1 x Wt	in NaCl 0.9%w/v ONLY	
	Caution: 10-fo	Id concentration difference	1			
	>5 -≤10kg	** 50 **units/50mL	>5 - ≤10kg: no default; dose	depends on indication	>5kg: n/a	>5kg: n/a
	All >10kg	** 50 **units/50mL	>10kg: 0.1 units/kg/hr	>10kg: <mark>0.1 x Wt</mark>		
		in NaCl 0.9%w/v ONLY				
Isoprenaline	≤2.5kg	0.2mg/ 10 mL	0.05 microgram/kg/min	All: 0.15 x Wt	0.6mg/ 10 mL	All: 0.05 x Wt
Weight-based	>2.5 - ≤5kg	0.4mg/ 20 mL			3mg/50mL	
>5kg also offered non weight-based option below	>5 -≤20kg	1mg/50mL			3mg/50mL	
		in Glucose 5%w/v ONLY			in Glucose 5%w/v ONLY	
Isoprenaline	All >5kg	1mg/50mL	1 microgram/min	3ml/hr	3mg/50mL	1mL/hr
NON weight-based (Pts > 5kg)		in Glucose 5%w/v ONLY			in Glucose 5%w/v ONLY	
Ketamine	≤2.5kg	50mg/50mL	2 microgram/kg/min	0.12 x Wt	n/a	n/a
CVAD (ideally)	2.5 - ≤10kg	50mg/50mL		0.12 x Wt	100mg/50mL	0.06 x Wt
	>10 - ≤20kg	100mg/50mL		0.06 x Wt	200mg/50mL	0.03 x Wt
	>20kg	200mg/50mL		0.03 x Wt	500mg/50mL	0.012 x Wt
Labetalol	≤2.5kg	50mg/50mL	0.5 mg/kg/hr	0.5 x Wt	All weights: 5mg/mL (Neat)	0.1 x Wt
(Large volume neat solution may be given using 250ml empty bag)	All >2.5kg	50mg/50mL or 1mg/mL			CVAD only	
		(variable volume)				
Lidocaine	All	5mg/mL	None	Variable	10mg/mL (Neat)	Variable
(Large volume neat solution may be given using 250ml empty bag)		(variable volume)				
Liothyronine	All	20microgram/ 20 mL	0.05 microgram/kg/hr	0.05 x Wt	n/a	n/a
Weight-based						
(Use bolus function to give loading dose)						
>20kg also offered non weight-based option below						
Liothyronine	>20kg	20microgram/ 20 mL	None	Variable	n/a	n/a
NON weight-based (Pts > 20kg)	only	or				
(Use bolus function to give loading dose)		40microgram/ 40 mL				
Midazolam	≤2.5kg	10mg/50mL	1 microgram/kg/min	0.3 x Wt	25mg/50mL	0.12 x Wt
(Large volume neat solution may be given using 250ml empty bag	>2.5 - ≤5kg	25mg/50mL		0.12 x Wt	50mg/50mL	0.06 x Wt
for patients > 20kg)	>5 - ≤20kg	50mg/50mL		0.06 x Wt	100mg/50mL	0.03 x Wt
	>20kg	100mg/50mL		0.03 x Wt	250mg/50mL (Neat) or	0.012 x Wt
					5mg/mL (Neat)	
Milrinone Load	All ≤5kg	5mg/50mL	50 microgram/kg	VTBI (mL) = 0.5 x Wt	10mg/50mL	VTBI (mL) = 0.25 x
	>5 - ≤10kg	10mg/50mL	over 30 mins	VTBI (mL) = 0.25 x Wt	20mg/50mL	VTBI (mL) = 0.125 >
	>10 - ≤20kg	20mg/50mL		VTBI (mL) = 0.125 x Wt	50mg/50mL (Neat)	VTBI (mL) = 0.05 x
	>20kg	50mg/50mL (Neat)		VTBI (mL) = 0.05 x Wt	n/a	n/a
e the same solution for load and therapeutic infusion		F		0.0.14	40	0.45 144
Milrinone Maintenance	All ≤5kg	5mg/50mL	0.5 microgram/kg/min	0.3 x Wt	10mg/50mL	0.15 x Wt
	>5 - ≤10kg	10mg/50mL		0.15 x Wt	20mg/50mL	0.075 x Wt
	>10 - ≤20kg	20mg/50mL		0.075 x Wt	50mg/50mL (Neat)	0.03 x Wt
	>20kg	50mg/50mL (Neat)	1	0.03 x Wt	n/a	n/a



CONTINUOUS INFUS	Flow rate (mL/hour)	Prescribed Dose x Default Rate (mL/hour) Default Start Dose				
Drug	Weight	SCI (Normal)	Default Dose and Rate Calculator All Weights in kg - rounding can occur		High Strength SCI	High Strength
5	Band		Default Start Dose	Default Rate (mL/hr)		Default Rate (mL/hr)
Morphine	≤2.5kg	2.5mg/50mL	20 microgram/kg/hr	0.4 x Wt	5mg/50mL	0.2 x Wt
	>2.5 - ≤5kg	5mg/50mL		0.2 x Wt	10mg/50mL	0.1 x Wt
	>5 - ≤10kg	10mg/50mL		0.1 x Wt	20mg/50mL	0.05 x Wt
	>10 - ≤20kg	20mg/50mL		0.05 x Wt	50mg/50mL	0.02 x Wt
	>20kg	50mg/50mL		0.02 x Wt	n/a	n/a
Noradrenaline	All ≤5kg	1mg/50mL	0.05 microgram/kg/min	0.15 x Wt	3mg/50mL	0.05 x Wt
	>5 - ≤10kg	3mg/50mL		0.05 x Wt	6mg/50mL	0.025 x Wt
	All >10kg	6mg/50mL		0.025 x Wt	12mg/50mL	0.0125 x Wt
Octreotide (dose = 1-3microgram/kg/hr)	All ≤5kg	150mcg/ 20 mL	1 microgram/kg/hr	0.133 x Wt	n/a	n/a
(Suggested concentration for 1-3microgram/kg/hr)	>5 - ≤10kg	300mcg/ 20 mL		0.067 x Wt		
	All >10kg	500mcg/ 20 mL in NaCl 0.9%w/v ONLY	-	0.04 x Wt		
Octreotide (dose = 4-6microgram/kg/hr)	All ≤10kg	500mcg/ 20 mL	1 microgram/kg/hr	0.04 x Wt	n/a	n/a
(Suggested concentration for 4-6microgram/kg/hr)	>10 - ≤20kg	1000mcg/ 20 mL		0.02 x Wt		
	>20kg	2000mcg/ 20 mL		0.01 x Wt		
		in NaCl 0.9%w/v ONLY	1			
Octreotide (dose = 7-12microgram/kg/hr)	All ≤10kg	1000mcg/ 20 mL	1 microgram/kg/hr	0.02 x Wt	n/a	n/a
(Suggested concentration for 7-12microgram/kg/hr)	All >10kg	2000mcg/ 20 mL		0.01 x Wt		
		in NaCl 0.9%w/v ONLY				
Oxycodone	≤2.5kg	2.5mg/50mL	20 microgram/kg/hr	0.4 x Wt	5mg/50mL	0.2 x Wt
	>2.5 - ≤5kg	5mg/50mL		0.2 x Wt	10mg/50mL	0.1 x Wt
	>5 - ≤10kg	10mg/50mL		0.1 x Wt	20mg/50mL	0.05 x Wt
	>10 - ≤20kg	20mg/50mL		0.05 x Wt	50mg/50mL	0.02 x Wt
	>20kg	50mg/50mL		0.02 x Wt	n/a	n/a
Phenylephrine	All ≤10kg	1mg/50mL	0.05 microgram/kg/min	0.15 x Wt	n/a	n/a
<u>CVAD</u> only	All >10kg	3mg/50mL		0.05 x Wt		
Propofol 1%	All	10mg/mL	2 mg/kg/hr	0.2 x Wt	n/a	n/a
	A !!	(variable volume)	A	0.4		
Propofol 1% (THEATRE)	All	10mg/mL (variable volume)	4 mg/kg/hr	0.4 x Wt	n/a	n/a
Remifentanil	All ≤5kg	1mg/50mL	0.1 microgram/kg/min	0.3 x Wt	2mg/50mL	0.15 x Wt
	All >5kg	2mg/50mL		0.15 x Wt	5mg/50mL	0.06 x Wt
Rocuronium	≤2.5kg	100mg/ 40 mL	300 microgram/kg/hr	0.12 x Wt	250mg/50mL	0.06 x Wt
	>2.5 - ≤10kg	250mg/50mL		0.06 x Wt	10mg/mL (Neat)	0.03 x Wt
	All >10kg	10mg/mL (Neat) (variable volume)		0.03 x Wt	n/a	n/a
	All	10mg/50mL	≤10kg: 1 microgram/kg/min	0.3 x Wt	1mg/mL (Neat)	0.06 x Wt
Salbutamol						
Salbutamol Weight-based			>10kg lower default start: 0.2 microgram/kg/min	0.06 x Wt	Neat via <u>CVAD</u> ONLY	>10kg: 0.012 x Wt*



PICU AND THEATRE, C CONTINUOUS INFUS	Flow rate (mL/hour)	<u>Prescribed Dosex</u> Default S	<u>Default Rate (mL/hour)</u> Start Dose			
Drug	Weight Band	SCI (Normal)		d Rate Calculator rounding can occur	High Strength SCI	High Strength Default Rate (mL/hr)
	Dana		Default Start Dose	Default Rate (mL/hr)		
Salbutamol NON weight-based (Pts > 20kg)	>20kg	10mg/50mL	5 microgram/min	1.5ml/hr	1mg/mL (Neat) Neat via <u>CVAD</u> ONLY	0.3ml/hr
Sildenafil Load Use the same solution for load and maintenance infusion	All	10mg/50mL	0.1 mg/kg over 30 minutes	VTBI (mL) = 0.5 x Wt	0.8mg/mL (Neat)	VTBI (mL) = 0.125 x Wt
Sildenafil Maintenance	All	10mg/50mL	0.03 mg/kg/hr	0.15 x Wt	0.8mg/mL (Neat)	0.0375 x Wt
Sodium Benzoate Load	All	2g/40mL (Perfusor) or 50mg/mL (Infusomat) in Glucose 10%w/v ONLY	250 mg/kg	VTBI (mL) = 5 x Wt	n/a	n/a
Use the same solution for load and maintenance infusion Sodium Benzoate Maintenance	All	2g/40mL (Perfusor) or 50mg/mL (Infusomat) in Glucose 10%w/v ONLY	500 mg/kg/24hours	0.417 x Wt	n/a	n/a
Sodium Bicarbonate Continuous Peripheral	All	0.1mmol/mL (variable volume)	None	Variable	n/a	n/a
Sodium Bicarbonate Continuous <u>CVAD</u>	All	0.2mmol/mL (variable volume)	None	Variable	n/a	n/a
Sodium Nitroprusside	All ≤5kg All >5kg	25mg/50mL 50mg/50mL in Glucose 5%w/v ONLY	0.5 microgram/kg/min	0.06 x Wt 0.03 x Wt	50mg/50mL n/a	0.03 x Wt n/a
Sodium Phenylbutyrate Load Use the same solution for load and maintenance infusion	All	2g/40mL (Perfusor) or 50mg/mL (Infusomat) in Glucose 10%w/v ONLY	250 mg/kg	VTBI (mL) = 5 x Wt	n/a	n/a
Sodium Phenylbutyrate Maintenance	All	2g/40mL (Perfusor) or 50mg/mL (Infusomat) in Glucose 10%w/v ONLY	500 mg/kg/24hours	0.417 x Wt	n/a	n/a
Sodium Phosphate <u>CVAD</u>	All	0.12mmol/mL (variable volume)	None	Variable	n/a	n/a
Sodium Phosphate <u>Periphera</u> l	All	0.05mmol/mL (variable volume)	None	Variable	n/a	n/a
Thiopental Sodium <u>CVAD</u>	All ≤10kg All >10kg	500mg/50mL 1250mg/50mL in NaCl 0.9%w/v ONLY	2 mg/kg/hr	0.2 x Wt 0.08 x Wt	1250mg/50mL 2500mg/50mL	0.08 x Wt 0.04 x Wt
Thiopental Sodium <u>Periphera</u> l Emergency ONLY	All	125mg/50mL in NaCl 0.9%w/v ONLY	2 mg/kg/hr	0.8 x Wt	n/a	n/a
Tranexamic Acid Continuous DILUTE (Loading dose offered at beginning of infusion)	All	20mg/mL (variable volume)	1 mg/kg/hour	0.05 x Wt	n/a	n/a
Tranexamic Acid Continuous NEAT (Loading dose offered at beginning of infusion)	All	100mg/mL (variable volume)	1 mg/kg/hour	0.01 x Wt	n/a	n/a



PICU AND THEATRE, CHILDREN'S HEALTH IRELAND CONTINUOUS INFUSIONS AND LOADING DOSES				Flow rate _ (mL/hour)		<u>Default Rate (mL/hour)</u> Start Dose
Drug	Weight Band	SCI (Normal)	Default Dose and All Weights in kg -	d Rate Calculator rounding can occur Default Rate (mL/hr)	High Strength SCI	High Strength Default Rate (mL/hr)
Vasopressin	All ≤5kg >5 - ≤10kg All >10kg	5unit/50mL 20unit/50mL 50unit/50mL	0.5 mUnit/kg/min (0.0005unit/kg/min) Note: 1mUnit = 0.001unit	0.3 x Wt 0.075 x Wt 0.03 x Wt	20unit/50mL 50unit/50mL n/a	0.075 x Wt 0.03 x Wt n/a
Vecuronium <u>CVAD</u> (ideally)	All ≤5kg >5 - ≤10kg >10 - ≤20kg All >20kg	8mg/ 20 mL 20mg/50mL 50mg/50mL 50mg/50mL	50microgram/kg/hour	0.125 x Wt 0.125 x Wt 0.05 x Wt 0.05 x Wt	20mg/ 20 mL 50mg/50mL n/a 100mg/50mL	0.05 x Wt 0.05 x Wt n/a 0.025 x Wt
Available on the drug library with no fixed concentration: Albumin 5% IV Fluids incl bolus Flush PICC 1Fr Line Flush Post Dose	Flush Replogle Flush TAT Gelofusine 4% Glucose 10% B	olus	Infliximab Octoplas Platelets PN (formerly TPN)		Red Cells Rituximab Tocilizumab 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.