For use by centers without access to the CHI Paediatric Standard Concentration Infusion Smart-Pump Drug Library All infusions compatible with Glucose 5% w/v and Sodium Chloride 0.9% w/v unless specified below dilution instructions • Weight (Wt) always in kg • See final page for examples							
			standard or an i	infusion rate (mL/hour) - m ndividualised weight-based he end of this document, inclu different doses			
Drug	Patient weight	Dilution Instructions	Standard Concentration Infusion		Individualised	Typical Dose Range	
			Suggested Start Dose	Rate calculation for Suggested Start Dose	Weight-Based Concentration	+/- Special Considerations	
Adrenaline (Central Line) May be initiated via peripheral line in an emergency pending placement of central access	≤10kg	0.3mg/kg diluted to 50mL			1mL/hour = 0.1 microgram/kg/min	0.01- 0.1 microgram/kg/min	
	>10kg	3mg diluted to 50mL (1mL = 60 microgram)	0.05 microgram/kg/min	(0.05 x Wt) mL/hour		Max dose:1.5 microgram/kg/min	
Amiodarone (Central Line)	≥2* - ≤40kg	15mg/kg diluted to 50mL Glucose 5% w/v ONLY			1mL/hour = 5 microgram/kg/min	Step 1: Load (if required) 5 mg/kg over 1-4 hours Max dose 300mg	
	>40kg	600mg diluted to 50mL (1mL = 12mg) Glucose 5% w/v ONLY	5 microgram/kg/min	(0.025 x Wt) mL/hour		Step 2: Maintenance 5-15 microgram/kg/min continuous IV infusion Max dose 1200mg/24hours	
Amiodarone (Peripheral Line)	All weights	300mg diluted to <b>250</b> mL (1mL = 1.2mg) Glucose 5% w/v ONLY	5 microgram/kg/min	(0.25 x Wt) mL/hour		(including load where given) *minimum stable concentration = 0.6mg/mL	
Aminophylline (Central or Peripheral Line)	All weights	500mg diluted to 500mL (1mL = 1mg)	0.5 mg/kg/hour	(0.5 x Wt) mL/hour		0-1 mg/kg/hr	
Atracurium (Central or Peripheral Line)	All weights	Use neat (1mL = 10mg)	300 microgram/kg/hour	(0.03 x Wt) mL/hour		300-1800 microgram/kg/hour Higher doses may be required to ensure neuromuscular blockade. Ensure adequate ventilation and sedation.	
Dinoprostone (Central or Peripheral Line) click <u>here</u> for full preparation instructions	≤10kg	50 microgram diluted to 50mL (1mL = 1microgram) Glucose 5% w/v preferred	5 nanogram/kg/min	(0.3 x Wt) mL/hour		5-10 nanogram/kg/min; may be increased up to 20 nanogram/kg/min.	
Dobutamine (Central Line)	≤15kg	15mg/kg diluted to 50mL			1mL/hour = 5 microgram/kg/min		
	>15kg	250mg diluted to 50mL (1mL = 5mg)	5 microgram/kg/min	(0.06 x Wt) mL/hour		2-20 microgram/kg/min	
Dobutamine (Peripheral Line)	All weights	75mg diluted to 50mL (1mL = 1.5mg)	5 microgram/kg/min	(0.2 x Wt) mL/hour			

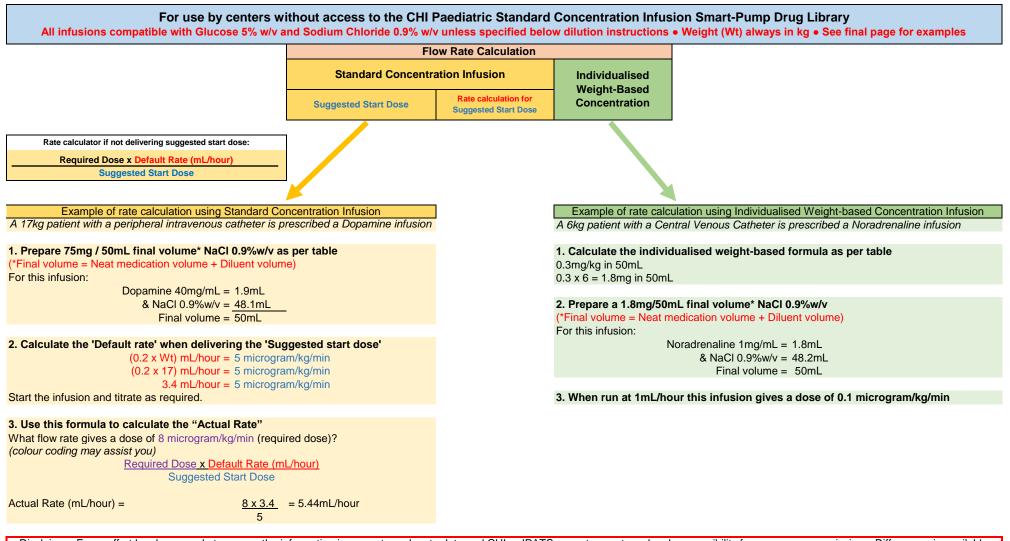


				Flow Rate Calculation		
Drug	Patient	Dilution Instructions	Standard Concentration Infusion		Individualised	Typical Dose Range
	weight		Suggested Start Dose	Rate calculation for Suggested Start Dose	Weight-Based Concentration	+/- Special Considerations
Dopamine (Central Line)	≤15kg	15mg/kg diluted to 50mL			1mL/hour = 5 microgram/kg/min	
	>15kg	250mg diluted to 50mL (1mL = 5mg)	5 microgram/kg/min	(0.06 x Wt) mL/hour		2-20 microgram/kg/min
<b>Dopamine</b> (Peripheral Line)	All weights	75mg diluted to 50mL (1mL = 1.5mg)	5 microgram/kg/min	(0.2 x Wt) mL/hour		
Glyceryl Trinitrate (Central Line)	≤15kg	3mg/kg diluted to 50mL			1mL/hour = 1 microgram/kg/min	Initially 0.2-0.5 microgram/kg/min. Adjust dose according to patient's response.
	>15kg	50mg diluted to 50mL (1mL = 1mg)	1 microgram/kg/min	(0.06 x Wt) mL/hour		Usual dose 1-3 microgram/kg/min. Max dose: 10 microgram/kg/min (Do not exceed 200 microgram/min)
Labetalol (Central Line)	All weights	Use neat i.e. 250mg in 50mL (1mL = 5mg)	0.5 mg/kg/hour	(0.1 x Wt) mL/hour		0.5 mg/kg/hour adjusted at intervals of at leas 15 minutes to response. Max dose: Neonates: 4 mg/kg/hour 1 month-12 years: 3 mg/kg/hour 12-18 years: 30-120 mg/hour (not mg/kg/hour for 12-18 years)
Labetalol (Peripheral Line)	All weights	50mg diluted to 50mL (1mL = 1mg)	0.5 mg/kg/hour	(0.5 x Wt) mL/hour		
Midazolam (Central Line)	All weights	3mg/kg diluted to 50mL			1mL/hour = 1 microgram/kg/min	Sedation: 0-4 microgram/kg/min
<b>Midazolam</b> (Peripheral Line)	≤15kg	3mg/kg diluted to 50mL			1mL/hour = 1 microgram/kg/min	Status Epilepticus:
	>15kg	50mg diluted to 50mL (1mL = 1mg)	1 microgram/kg/min	(0.06 x Wt) mL/hour		0-24 microgram/kg/min



				Flow Rate Calculation		
Drug	Patient weight	Dilution Instructions	Standard Concentration Infusion		Individualised	Typical Dose Range
			Suggested Start Dose	Rate calculation for Suggested Start Dose	Weight-Based Concentration	+/- Special Considerations
<b>Milrinone</b> (Ideally via Central Line; use Peripherally with care)	≤30kg	1.5mg/kg diluted to 50mL			1mL/hour = 0.5 microgram/kg/min	0.5-0.75 microgram/kg/min
	>30kg	Use neat e.g. 50mg in 50mL (1mL = 1mg)	0.5 microgram/kg/min	(0.03 x Wt) mL/hour		0.5-0.75 microgram/kg/min
Morphine		1mg/kg diluted to 50mL			1mL/hour = 20 microgram/kg/hour	5-20 microgram/kg/hour
(Central or Peripheral Line)	All weights	(max conc: 1mg/mL)				May cause respiratory depression; monitor vital signs
NorAdrenaline (Central Line) May be initiated via peripheral line in an emergency pending placement of central access	≤10kg	0.3mg/kg diluted to 50mL			1mL/hour = 0.1 microgram/kg/min	0.01-0.1 microgram/kg/min
	>10kg	3mg diluted to 50mL (1mL = 60 microgram)	0.05 microgram/kg/min	(0.05 x Wt) mL/hour		Adjust according to response Max dose:1 microgram/kg/min
Salbutamol (Central or Peripheral Line)	All weights	10mg diluted to 50mL (1mL = 200 micrograms)	1 microgram/kg/min	(0.3 x Wt) mL/hour		0-5 microgram/kg/min Caution exceeding adult dosing of 3-20 microgram/min (not microgram/kg/min)
Sodium Nitroprusside (Central Line)	≤15kg	3mg/kg diluted to 50mL Glucose 5% w/v ONLY			1mL/hour = 1 microgram/kg/min	0.5-8 microgram/kg/min
	>15kg	50mg diluted to 50mL (1mL = 1mg) Glucose 5% w/v ONLY	1 microgram/kg/min	(0.06 x Wt) mL/hour		Max dose: 4 microgram/kg/min if for >24hou Protect from light
Vasopressin (Central Line)	≤15kg	3 units/kg diluted to 50mL			1mL/hour = 1 milliunit/kg/min (NB 1milliunit = 0.001units) (1000 milliunits = 1 unit)	0.3-4 milliunits/kg/min (= 0.0003 -0.004 units/kg/min)
	>15kg	50 units diluted to 50mL (1mL = 1000 milliunits = 1 unit)	0.5 milliunits/kg/min	(0.03 x Wt) mL/hour		(NB 1 milliunit = 0.001 units) (1000 milliunits = 1 unit)





Disclaimer: Every effort has been made to ensure the information is accurate and up to date and CHI or IPATS 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.

