

Default EPIC standard concentrations for infusions in the Pediatric Intensive Critical Care Unit at UNC

Drug	Recommended Dilution	Concentration	Recommended Dilution	Concentration	Recommended Dilution	Concentration	Recommended Dilution	Concentration	Recommended Dilution	Concentration
	< 2.5 kg		2.5 – 4.99 kg		5 – 9.99 kg		10 – 39.99 kg		> 40 kg** Adult Concentrations	
Alprostadil (Prostin VR)	500 mcg/50 mL NS	10 mcg/mL	500 mcg/50 mL NS	10 mcg/mL	500 mcg/50 mL NS	10 mcg/mL	500 mcg/50 mL NS	10 mcg/mL	N/A	N/A
Aminocaproic acid (Amicar)	1 g/50 mL D ₅ W or 5 g/250 mL	20 mg/mL	1 g/50 mL D ₅ W or 5 g/250 mL	20 mg/mL	1 g/50 mL D ₅ W or 5 g/250 mL	20 mg/mL	1 g/50 mL D ₅ W or 5 g/250 mL	20 mg/mL	10 g/500 mL or 5 g/250 mL NS	0.02 g/mL
Aminophylline			100 mg/50 mL NS	2 mg/mL	100 mg/50 mL NS	2 mg/mL	100 mg/50 mL NS	2 mg/mL	500 mg/250 mL NS	2 mg/mL
Amiodarone (Cordarone)	75 mg/50 mL D ₅ W 48 mg/8 mL D ₅ W	1.5 mg/mL (PIV) 6 mg/mL (CL)	75 mg/50 mL D ₅ W 300 mg/50 mL D ₅ W	1.5 mg/mL (PIV) 6 mg/mL (CL)	75 mg/50 mL D ₅ W 300 mg/50 mL D ₅ W	1.5 mg/mL (PIV) 6 mg/mL (CL)	750 mg/500 mL D ₅ W 300 mg/50 mL D ₅ W	1.5 mg/mL (PIV) 6 mg/mL (CL)	450 mg/250 mL D ₅ W	1.8 mg/mL
Argatroban	20 mg/ 20 mL NS	1 mg/mL	50 mg/ 50 mL NS	1 mg/mL	50 mg/ 50 mL NS	1 mg/mL	50 mg/ 50 mL NS	1 mg/mL	250 mg/250 mL NS	1 mg/mL
Calcium Chloride	3,000 mg/30 mL syringe	100 mg/mL	3,000 mg/30 mL syringe	100 mg/mL	3,000 mg/30 mL syringe	100 mg/mL	5,000 mg/50 mL syringe	100 mg/mL	2 g/250 mL or 1000 mg/100 mL or 1500 mg/250 mL or 500 mg/100 mL	0.008 g/mL or 10 mg/mL or 6 mg/mL or 5 mg/mL
Cisatracurium	80 mg/40 mL NS	2 mg/mL	80 mg/40 mL NS	2 mg/mL	80 mg/40 mL NS*	2 mg/mL	80 mg/40 mL NS*	2 mg/mL	200 mg/100 mL NS or D ₅ W	2 mg/mL
Cyclosporine			50 mg/50 mL OR 250 mg/250 mL NS	1 mg/mL	50 mg/50 mL OR 250 mg/250 mL NS	1 mg/mL	50 mg/50 mL OR 250 mg/250 mL NS	1 mg/mL	250 mg/250 mL NS	1 mg/mL
Dexmedetomidine	200 mcg/50 mL D ₅ W	4 mcg/mL	200 mcg/50 mL D ₅ W	4 mcg/mL	200 mcg/50 mL D ₅ W	4 mcg/mL	200 mcg/50 mL D ₅ W	4 mcg/mL	800 mcg/200 mL D ₅ W	4 mcg/mL
Diltiazem					50 mg/50 mL NS	1 mg/mL	50 mg/50 mL NS* OR 125 mg/125 mL	1 mg/mL	125 mg/125 mL NS	1 mg/mL
Dobutamine (Dobutrex)	16 mg/8 mL NS	2000 mcg/mL	100 mg/50 mL D ₅ W	2000 mcg/mL	100 mg/50 mL D ₅ W	2000 mcg/mL	1 g/250 mL PMB	4000 mcg/mL	1 g/250 mL PMB	4000 mcg/mL
Dopamine (Intropin)	12.8 mg/8 mL D ₅ W	1600 mcg/mL (from PMB)	80 mg/50 mL D ₅ W	1600 mcg/mL (from a PMB)	800 mg/500 mL D ₅ W PMB	1600 mcg/mL	800 mg/500 mL D ₅ W OR 400 mg//250 ml PMB	1600 mcg/mL	400 mg/250 mL D ₅ W PMB	1.6 mg/mL
Epinephrine (Adrenalin)	128 mcg/8 mL D ₅ W	16 mcg/mL	1.6 mg/50 mL D ₅ W	32 mcg/mL	1.6 mg/50 mL D ₅ W	32 mcg/mL	3.2 mg/50 mL D ₅ W	64 mcg/mL	16 mg/250 mL D ₅ W	64 mcg/mL
Esmolol (Brevibloc)			500 mg/50 mL NS	10 mg/mL	500 mg/50 mL NS	10 mg/mL	2500 mg/250 mL NS PMB	10 mg/mL	2500 mg/250 mL NS PMB	10 mg/mL
Fentanyl (Sublimaze)	100 mcg/2 mL	50 mcg/mL (straight drug)	250 mcg/5 mL	50 mcg/mL (straight drug)	250 mcg/5 mL OR 2500 mcg/50 mL	50 mcg/mL (straight drug)	2500 mcg/50 mL	50 mcg/mL (straight drug)	2500 mcg/50 mL	50 mcg/mL (straight drug)
Furosemide (Lasix)	40 mg/40 mL NS	1 mg/mL	40 mg/40 mL NS	1 mg/mL	40 mg/40 mL NS	1 mg/mL	40 mg/40 mL or 100 mg/100 mL NS	1 mg/mL	200 mg/100 mL NS	2 mg/mL
Heparin	500 units/ 10 mL D ₅ W ECMO 5000 units/50 mL D ₅ W	50 units/mL ECMO 100 units/mL	5,000 units/ 50 mL D ₅ W	100 units/mL	5,000 units/ 50 mL D ₅ W	100 units/mL	25,000 units/ 250 mL PMB	100 units/mL	25,000 units/ 250 mL PMB	100 units/mL
Hydromorphone	10 mg/50 mL NS	0.2 mg/mL	10 mg/50 mL NS	0.2 mg/mL	10 mg/50 mL NS	0.2 mg/mL	50 mg/50 mL NS	1 mg/mL	100 mg/100 mL NS	1 mg/mL
Insulin (Regular)	25 units/50 mL 0.45 %NS syringe	0.5 units/mL	25 units/50 mL 0.45 % NS	0.5 units/mL	50 units/ 50 mL NS	1 unit/mL	50 units/ 50 mL NS	1 unit/mL	100 units/100 mL	1 units/mL
Isoproterenol (Isuprel)	0.32 mg/20 mL NS	16 mcg/mL	0.32 mg/20 mL NS	16 mcg/mL	0.32 mg/20 mL NS	16 mcg/mL	0.32 mg/20 mL NS	16 mcg/mL	1 mg/250 mL	0.004 mg/mL
Ketamine	500 mg/50 mL D ₅ W syringe	10 mg/mL	500 mg/50 mL D ₅ W syringe	10 mg/mL	500 mg/50 mL D ₅ W syringe	10 mg/mL	500 mg/50 mL D ₅ W syringe	10 mg/mL	1000 mg/100 mL	10 mg/mL

Drug	Recommended Dilution	Concentration	Recommended Dilution	Concentration	Recommended Dilution	Concentration	Recommended Dilution	Concentration	Recommended Dilution	Concentration
	<2.5 kg		2.5 – 4.99 kg		5 – 9.99 kg		10 – 39.99 kg		> 40 kg	
Labetolol (Trandate)			50 mg/50 mL D ₅ W	1 mg/mL	50 mg/50 mL D ₅ W	1 mg/mL	50 mg/50 mL D ₅ W* OR 300 mg/300 mL	1 mg/mL	300 mg/60 mL	5 mg/mL
Lidocaine (Xylocaine)	100 mg/50 mL D ₅ W	2 mg/mL	2 g/500 mL D ₅ W PMB	4 mg/mL	2 g/500 mL D ₅ W PMB	4 mg/mL	2 g/500 mL D ₅ W PMB	4 mg/mL	2,000 mg/500 mL D ₅ W PMB	4 mg/mL
Midazolam (Versed)	4 mg/4 mL NS	1 mg/mL	50 mg/50 mL NS	1 mg/mL	50 mg/50 mL NS	1 mg/mL	100 mg/100 mL NS PMB	1 mg/mL	100 mg/100 mL NS PMB	1 mg/mL
Milrinone (Primacor)	2 mg/10 mL D ₅ W	0.2 mg/mL (from a PMB)	10 mg/50 mL D ₅ W	0.2 mg/mL (from a PMB)	40 mg/200 mL D ₅ W PMB	0.2 mg/mL	40 mg/200 mL D ₅ W PMB	0.2 mg/mL	40 mg/200 mL D ₅ W PMB	0.2 mg/mL
Morphine	4 mg/4 mL D ₅ W	1 mg/mL	50 mg/50 mL D ₅ W	1 mg/mL	100 mg/100 mL NS PMB	1 mg/mL	100 mg/100 mL NS PMB	1 mg/mL	100 mg/100 mL NS PMB	1 mg/mL
Naloxone	200 mcg/50 mL D ₅ W	4 mcg/mL	200 mcg/50 mL D ₅ W	4 mcg/mL	200 mcg/50 mL D ₅ W	4 mcg/mL	200 mcg/50 mL* D ₅ W OR 2000 mcg/500 mL	4 mcg/mL	2000 mcg/500 mL	0.004 mg/mL
Nicardipine			10 mg/50 mL NS	0.2 mg/mL	10 mg/50 mL NS	0.2 mg/mL	25 mg/50 mL NS	0.5 mg/mL	125 mg/250 mL NS	0.5 mg/mL
Nitroglycerin	1.6 mg/8 mL D ₅ W syringe	200 mcg/mL	20 mg/250 mL D ₅ W PMB	200 mcg/mL	100 mg/250 mL D ₅ W PMB	200 mcg/mL	50 mg/250 mL D ₅ W PMB	200 mcg/mL	50 mg/250 mL D ₅ W PMB	0.2 mg/mL
Nitroprusside (Nipride)	10 mg/50 mL NS	200 mcg/mL	10 mg/50 mL NS	200 mcg/mL	10 mg/50 mL NS	200 mcg/mL	50 mg/100 mL NS	500 mcg/mL	50 mg/100 mL NS	0.5 mg/mL
Norepinephrine (Levophed)	128 mcg/8 mL NS	16 mcg/mL	1.6 mg/50 mL NS	32 mcg/mL	1.6 mg/50 mL NS	32 mcg/mL	3.2 mg/50 mL NS	64 mcg/mL	16 mg/250 mL NS	64 mcg/mL
Octreotide	40 mcg/8 mL NS syringe	5 mcg/mL	250 mcg/50 mL NS	5 mcg/mL	250 mcg/50 mL NS	5 mcg/mL	250 mcg/50 mL NS	5 mcg/mL	1250 mcg/250 mL	5 mcg/mL
Pentobarbital (Nembutal)	1000 mg/20 mL	50 mg/mL	1000 mg/20 mL	50 mg/mL	2500 mg/50 mL	50 mg/mL	5000 mg/100 mL	50 mg/mL	2500 mg/50 mL (may vary)	50 mg/mL (variable)
Phenylephrine (Neo-Synephrine)	1 mg/50 mL NS	20 mcg/mL (not defaulted)	2 mg/50 mL NS	40 mcg/mL (not defaulted)	2 mg/50 mL NS	40 mcg/mL (not defaulted)	4 mg/50 mL* OR 20 mg/250 mL NS	80 mcg/mL (all defaulted)	100 mg/250 mL	0.4 mg/mL
Procainamide (Pronestyl)	200 mg/50 mL NS	4 mg/mL	200 mg/50 mL NS	4 mg/mL	2000 mg/500 mL NS	4 mg/mL	2000 mg/500 mL NS	4 mg/mL	2000 mg/500 mL NS	4 mg/mL
Rocuronium	80 mg/8 mL	10 mg/mL (straight drug)	80 mg/8 mL	10 mg/mL (straight drug)	80 mg/8 mL	10 mg/mL (straight drug)	500 mg/50 mL	10 mg/mL (straight drug)	500 mg/50 mL (may vary)	10 mg/mL (straight drug) (variable)
Sodium Bicarbonate	50 mEq/50 mL	1 mEq/mL (straight drug)	50 mEq/50 mL	1 mEq/mL (straight drug)	100 mEq/100 mL	1 mEq/mL (straight drug)	200 mEq/200 mL	1 mEq/mL (straight drug)	150 mEq/1000 mL or 100 mEq/1000 mL or 50 mEq/1000 mL	0.15 mEq/mL or 0.1 mEq/mL or 0.05 mEq/mL
Tacrolimus			0.5 mg/50 mL	0.01 mg/mL	0.5 mg/50 mL	0.01 mg/mL	0.5 mg/50 mL	0.01 mg/mL	2.5 mg/250 mL (may vary)	0.01 mg/mL (variable)
Terbutaline	0.8 mg/4 mL D ₅ W	200 mcg/mL	1.6 mg/8 mL D ₅ W	200 mcg/mL	10 mg/50 mL D ₅ W	200 mcg/mL	16 mg/16 mL	1 mg/mL (straight drug)	N/A	N/A
Vasopressin (For Diabetes Insipidus 0.5 – 10 milliunits/kg/hr)	1 units/50 mL D ₅ W	20 milliunits/mL	1 units/50 mL D ₅ W	20 milliunits/mL	1 units/50 mL D ₅ W	20 milliunits/mL	2 units/50 mL D ₅ W	40 milliunits/mL	40 units/50 mL PMB	0.8 units/mL
Vasopressin (For pressor or GI bleed > 18 milliunits/kg/hr)	10 units/50 mL NS	200 milliunits/mL	10 units/50 mL NS	200 milliunits/mL	40 units/50 mL NS	800 milliunits/mL	40 units/50 mL NS	800 milliunits/mL	40 units/50 mL PMB	0.8 units/mL
Vecuronium	8 mg/8 mL D ₅ W	1 mg/mL (straight drug)	40 mg/40 mL	1 mg/mL (straight drug)	100 mg/100 mL	1 mg/mL (straight drug)	100 mg/100 mL	1 mg/mL (straight drug)	100 mg/100 mL	1 mg/mL