

# Standard Concentrations for Common NICU Drips – Quick Reference Table

(For all drug options, see full table in medication recipe binders in each med room)

Medication & Commercial concentration	Weight Guidelines	Concentration Options	How to Prepare (Total Volume of 20 mL unless otherwise stated)	Compatible Diluent Solutions	Additional Info
<b>Alprostadil (PGE)</b> 500 mcg/mL	ALL	2 mcg/mL	Draw up 40 mcg = 0.08 mL Add to 19.92 mL of diluent for total volume of 20 mL	D5W, NS	
	ALL – fluid restriction	10 mcg/mL	Draw up 200 mcg = 0.4 mL Add to 19.6 mL of diluent for total volume of 20 mL		
<b>Bumetanide</b> 0.5 mg/mL	ALL	0.1 mg/mL	Draw up 2 mg = 4 mL Add to 16 mL of diluent for total volume of 20 mL	D5W, NS	
<b>Dexmedetomidine</b> 100 mcg/mL	ALL	4 mcg/mL	Draw up 80 mcg = 0.8 mL Add to 19.2 mL of diluent for total volume of 20 mL	D5W, NS	
<b>DOBUTamine</b> 12 500 mcg/mL	≤ 4.99 kg	800 mcg/mL	Draw up 16 000 mcg = 1.28 mL Add to 18.72 mL of diluent for total volume of 20 mL	D5W, NS, D10W, 1/2NS	!!
	5 kg – 24.99 kg	1600 mcg/mL	Draw up 32 000 mcg = 2.6 mL Add to 17.4 mL of diluent for total volume of 20 mL		
	≥ 25 kg	3200 mcg/mL	Draw up 64 000 mcg = 5.1 mL Add to 14.9 mL of diluent for total volume of 20 mL		
<b>DOPamine</b> 3200 mcg/mL	≤ 4.99 kg	800 mcg/mL	Draw up 16 000 mcg = 5 mL Add to 15 mL of diluent for total volume of 20 mL	D5W, NS, D10W	!!
	5 kg – 24.99 kg	1600 mcg/mL	Draw up 32 000 mcg = 10 mL Add to 10 mL of diluent for total volume of 20 mL		
	≥ 25 kg	3200 mcg/mL	No dilution required; draw up 20 mL pure dopamine from bag		
<b>EPINEPHrine</b> 100 mcg/mL (1:10 000)	≤ 4.99 kg	10 mcg/mL	Draw up 200 mcg = 2 mL Add to 18 mL of diluent for total volume of 20 mL	D5W, NS, D10W	
	5 kg – 24.99 kg	25 mcg/mL	Draw up 500 mcg = 5 mL Add to 15 mL of diluent for total volume of 20 mL		
	≥ 25 kg	60 mcg/mL	Draw up 1200 mcg = 12 mL Add to 8 mL of diluent for total volume of 20 mL		
<b>FentaNYL</b> 50 mcg/mL	≤ 2.49 kg	12.5 mcg/mL	Draw up 250 mcg = 5 mL Add to 15 mL of diluent for total volume of 20 mL	D5W, NS	
	≥ 2.5 kg	50 mcg/mL	No dilution required; draw up 20 mL pure fentanyl from vials		

Medication & Commercial concentration	Weight Guidelines	Concentration Options	How to Prepare (Total Volume of 20 mL unless otherwise stated)	Compatible Diluent Solutions	Additional Info
<b>Furosemide</b> 10 mg/mL	ALL	1 mg/mL	Draw up 20 mg = 2 mL Add to 18 mL of diluent for total volume of 20 mL	D5W, NS, D10W	Protect from light
<b>Insulin (Regular)</b> 100 units/mL	≤0.99 kg	0.04 unit/mL	<i>* Using previously diluted 0.5u/mL solution *</i> Draw up 2 units = 4 mL add to 46 mL of diluent for total volume of <b>50 mL</b>	D5W, NS, D10W	Follow special instructions for preparation of tubing – see sign on med room fridges
	1 kg – 4.99 kg	0.1 unit/mL	Draw up 5 units = 0.05 mL Add to 49.95 mL of diluent for total volume of <b>50 mL</b>		
	≥ 5 kg	0.5 unit/mL	Draw up 25 units = 0.25 mL Add to 49.75 mL of diluent for total volume of <b>50 mL</b>		
<b>Midazolam</b> 5 mg/mL	≤ 4.99 kg	1 mg/mL	Draw up 20 mg = 4 mL Add to 16 mL for a total volume of 20 mL	D5W, NS, 1/2NS	!!
	5 kg – 24.99 kg	2 mg/mL	Draw up 40 mg = 8 mL Add to 12 mL for a total volume of 20 mL		
	≥ 25 kg	5 mg/mL	No dilution required; draw up 20 mL of pure midaz from vials		
<b>Milrinone</b> 1 mg/mL	≤ 4.99 kg	125 mcg/mL	Draw up 2.5 mg = 2.5 mL Add to 17.5 mL of diluent for total volume of 20 mL	D5W, NS, 1/2NS	
	5 kg – 24.99 kg	250 mcg/mL	Draw up 5 mg = 5 mL Add to 15 mL of diluent for total volume of 20 mL		
	≥ 25 kg	500 mcg/mL	Draw up 10 mg = 10 mL Add to 10 mL of diluent for total volume of 20 mL		
<b>Morphine</b> 10 mg/mL	≤ 4.99 kg	100 mcg/mL	Draw up 2 mg = 0.2 mL Add to 19.8 mL of diluent for total volume of 20 mL	D5W, NS, D10W, 1/2NS	
	5 kg – 24.99 kg	250 mcg/mL	Draw up 5 mg = 0.5 mL Add to 19.5 mL of diluent for total volume of 20 mL		
	≥ 25 kg	1000 mcg/mL	Draw up 20 mg = 2 mL Add to 18 mL of diluent for total volume of 20 mL		

**!! IMPORTANT: BE AWARE OF YOUR UNITS !!**

**!!REMEMBER, 1 MG = 1000 MCG !!**