

Pediatric vs. Adult Infusions

Medication	Usual Pediatric Infusion Dosing	Usual Adult Infusion Dosing (> 40 kg)	Mechanism of Action
Alprostadil	0.01-0.4 mcg/kg/min	25-150 ng/kg/min (OR 0.025-0.15 mcg/kg/min)	Smooth muscle vasodilation
Aminocaproic Acid	25-30 mg/kg/hr	1 - 1.25 g/hr (max daily dose 30 g)	Blocks plasminogen, preventing fibrin degradation
Aminophylline	Dosed by age range and concentrations (max 1139 mg/day)	Dosed by age range and concentrations (max 1139 mg/day)	Bronchodilation
Amiodarone	5-15 mcg/kg/min OR 10-20 mg/kg/day	1 mg/min x 6 hrs then 0.5 mg/min x 5 days	Antiarrhythmic, VT/Afib
Argatroban	0.75 mcg/kg/min, titrate per labs (max 10 mcg/kg/min)	2 mcg/kg/min (max 10 mcg/kg/min)	Anticoagulation in patients who cannot tolerate heparin
Calcium Chloride	5-20 mg/kg/hr (max 1 g/hour)	0.8 to 1 g/hr	Helps with cardiac muscle contractions
Cisatracurium	1-4 mcg/kg/minute (0.06-0.24 mg/kg/hr);	1-3 mcg/kg/min (max 10 mcg/kg/min)	Paralytic
Cyclosporine	2-10 mg/kg/day	2-10 mg/kg/day	Immunosuppressant
Dexmedetomidine	0.3-1.5 mcg/kg/hr	0.2-0.7 mcg/kg/hr	Sedation agent
Diltiazem	No specific peds dosing	5-15 mg/hr for < 24 hrs	Antiarrhythmic
Dobutamine	2.5-15 mcg/kg/min (max 40 mcg/kg/min)	2-10 mcg/kg/min (max 40 mcg/kg/min)	Incr cardiac contractility/CO (Beta 1 agonist)
Dopamine	1-20 mcg/kg/min	1-20 mcg/kg/min	Low Dose - Renal Med Dose - Incr HR High Dose - Incr BP
Epinephrine	0.03-1 mcg/kg/min	1-10 mcg/min	Incr BP/HR/CO
Esmolol	50-250 mcg/kg/min (max 300 mcg/kg/min)	50-250 mcg/kg/min (max 300 mcg/kg/min)	Decr HR
Fentanyl	1-5 mcg/kg/hr (no max)	50-150 mcg/hr (no max)	Analgesia/Sedation
Furosemide	0.1-0.4 mg/kg/hr	5-20 mg/hr (max 40 mg/hr)	Diuretic
Heparin	10-40 units/kg/hr, titrate per labs	10-40 units/kg/hr, titrate per labs	Anticoagulant
Insulin (regular)	See Peds Protocol (DKA vs non DKA)	See Adult Protocol (DKA vs non DKA)	Lowers Glucose
Isoproterenol	0.05-2 mcg/kg/min (max 20 mcg/min)	2-20 mcg/min	Incr HR
Ketamine	1-2 mg/kg/hr OR 16.7-33 mcg/kg/min	1-2 mg/kg/hr Not in adult library	General anesthetic

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Labetalol	0.25-3 mg/kg/hr Max Cumulative 300 mg	2 mg/min for 2.5 hrs Max Cumulative 300 mg	Decr HR/BP
Lidocaine	20-50 mcg/kg/min	1-4 mg/min	Antiarrhythmic
Midazolam	0.05-0.2 mg/kg/hr	1-10 mg/hr	Sedation
Milrinone	0.25-0.75 mcg/kg/min	0.25-0.75 mcg/kg/min	Incr myocardial contractility, vasodilation
Morphine	0.01-0.1 mg/kg/hr (no max)	0.5-20 mg/hr (no max)	Analgesia/Sedation
Naloxone	24-40 mcg/kg/hr Pruritis: 0.25 mcg/kg/hr	0.25-6.25 mg/hr for opioid reversal	Opioid reversal
Nicardipine	0.5-3 mcg/kg/min (max 5 mcg/kg/min) > 20 kg, consider adult dosing	2.5-5 mg/hr (max 15 mg/hr)	Decr BP
Nesiritide	0.01 mcg/kg/min (0.005-0.03 mcg/kg/min)	0.005-0.03 mcg/kg/min	Vasodilation/Diuresis Used for Heart Failure
Nitroglycerin	0.25-3 mcg/kg/min (max 5 mcg/kg/min)	5-200 mcg/min	Vasodilator
Nitroprusside	0.3-4 mcg/kg/min	0.5-2 mcg/kg/min	Vasodilator
Norepinephrine	0.05-0.1 mcg/kg/min (max 1-2 mcg/kg/min or 30 mcg/min)	2-30 mcg/min	Incr BP
Octreotide	0.3-10 mcg/kg/hr *0.5-4 mcg/kg/hr chylothorax (max 25-50 mcg/hr)	25-50 mcg/hr	Antisecretory Agent
Pancuronium	0.02-0.1 mg/kg/hr (OR 0.3-1.7 mcg/kg/min)	1-2 mcg/kg/min	Paralytic
Pentobarbital	1-3 mg/kg/hr	1-3 mg/kg/hr	Anticonvulsant/Sedation
Phenylephrine	0.1-0.5 mcg/kg/min	20-300 mcg/min	Incr BP
Procainamide	20-80 mcg/kg/min	1-4 mg/min	Antiarrhythmic
Rocuronium	7-10 mcg/kg/min (OR 0.4-0.6 mg/kg/hr)	4-16 mcg/kg/min (OR 0.2-0.96 mg/kg/hr)	Paralytic
Sodium Bicarbonate	1-2 meq/kg/hr	25-50 meq/hr	Alkalinizing Agent
Tacrolimus	0.03-0.06 mg/kg/day	0.03-0.06 mg/kg/day	Immunosuppressant
Terbutaline	0.08-0.4 mcg/kg/min (max 10 mcg/kg/min)	No adult dosing	Bronchodilator (Beta 2 agonist)
Vasopressin (DI)	0.5-1 mun/kg/hr, titrate per UOP (max 10 mun/kg/hr)	0.5-1 mun/kg/hr, titrate per UOP (max 10 mun/kg/hr)	Antidiuretic Hormone Analog
Vasopressin (Pressor)	18-120 mun/kg/hr	1200 - 2400 mun/kg/hr (0.02-0.04 units/min)	Incr BP
Vasopressin (GI Bleed)	120-300 mun/kg/hr	12000 - 24000 mun/hr (0.2-0.4 units/min) (max 48000 units/hr)	Vasoconstriction Agent

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Vecuronium	0.05-0.1 mg/kg/hr (OR 0.8-1.7 mcg/kg/min)	0.8-1.2 mcg/kg/min	Paralytic