

Providence Health Center Intravenous Infusion Guidelines

Drug	Mixed	Bolus	Maintenance Rate	PHC Max Rate*	Titration
Abciximab (Reopro) "F"	9 mg/250 cc NS, D5 (36 mcg/cc)	0.25 mg/kg over 1 min direct from vial	0.125 mcg/kg/min x 12 hrs	10 mcg/min	NA
Aminocaproic Acid (Amicar)	5 G/250 cc NS, D5, LR	4-5 G over 1 hr	1.0 – 1.25 G/hr	30 G over 24 hrs.	NA
Amiodarone (Cordarone) "F"	900mg/500cc D5	150mg/100cc D5 over 10 min	1 mg/min x 6 hrs; then 0.5 mg/min	1 mg/min (33.3 cc/hr)	Infuse at ordered rate (protocol available)
Argatroban	250 mg/250 cc	NA	2 mcg/kg/min Dose adjust for hepatic impairment	10 mcg/kg/min	Based on aPTT
Articurium (Tracrium) "R" (for ventilated patients only)	250 mg/250 cc NS, D5	200-500 mcg/kg over 1 min	2-15 mcg/kg/min	15 mcg/kg/min	2 mcg/kg/min q 3 min
Bivalirudin (Angiomax)	250mg/50 cc NS, D5 1 st dilute in 5cc sterile H2O	0.75 mg/kg	1.75 mg/kg/hr Dose adjust for renal impairment	NA	NA
Bumetadine (Bumex)	10 mg/40 cc undiluted Protect from light	1 mg	0.5-2 mg/hr	2 mg/hr	0.5 mg/hr q 2 hr
Dexmedetomidine (Precedex)	200mcg/48 cc NS = 4 mcg/ml	1 mcg/kg over 10 min	0.2-0.7 mcg/kg/hr Not to exceed 24 hrs	0.7 mcg/kg/hr	0.1 mcg/kg/hr q 15 min
Diltiazem (Cardizem) Premix	Premix 100mg/100 cc	0.25mg/kg over 2 min May repeat at 0.35 mg/kg 15 min after initial dose	5-15 mg/hr	15 mg/hr	2.5 mg/hr q 30 min
Diltiazem (Cardizem) "R"	125 mg(25cc) in 100cc NS, D5 =1:1	As above	As above	As above	As above
Dobutamine (Dobutrex) Premix	250 mg/250 cc NS, D5	NA	1 – 20 mcg/kg/min	20 mcg/kg/min	2.5 mcg/kg/min q 10 min
Dopamine (Intropin) Premix "C"	400 mg/250 cc NS, D5	NA	1-5 mcg/kg/min – renal 5-20 mcg/kg/min – 1 BP	20 mcg/kg/min	2.5 mcg/kg/min q 10 min
Drotrecogin alfa (Xigris)	Mixed by pharmacy Gage by pt. Wt. Concentration may vary	NA	24 mcg/kg/hr X 96 hrs	NA	NA
Epinephrine (Adrenalin) "C"	4mg/250cc NS, D5	NA	1-10 mcg/min	10 mcg/min	1 mcg/min q 5 min
Epitibatid (Integrilin) Premix "R"	75 mg/100cc	180 mcg/kg from bolus vial (20 mg/10cc) over 1 min	2 mcg/kg/min Dose adjust for renal impairment	15 mg/hr	Infuse at ordered rate (protocol available)
Esmolol (Brevibloc)	5G/500cc NS, D5	500 mcg/kg over 1 min	50-200 mcg/kg/min	200 mcg/kg/min	50 mcg/kg/min q 5 min
Furosemide (Lasix)	100 mg/100 cc NS, D5 Protect from light	20-80 mg	10-100 mg/hr	240 mg/hr	10 mg/hr q 2 hr
Heparin Premix	20,000 units/500 cc	5,000 – 10,000 units TVP	800 – 1600 units/hr (avg)	NA	Follow protocol or physician order
Insulin (Regular)	100 units/100 cc NS	Follow protocol	Follow protocol	NA	Follow protocol or physician order
Isoproterenol Hcl (Isuprel)	2 mg/500 cc D5	20-60 mcg	0.5 – 20 mcg/min	30 mcg/min	1 mcg/min q 10 min
Labetolol (Normodyne)	200 mg(40cc)/160cc NS, D5 = 1:1	20 mg over 2 min; may repeat 20-80 mg Q 10 min	0.5-2 mg/min	3 mg/min to a max cumulative dose of 300 mg	0.5 mg/min q 30 min
Lidocaine (Xylocaine) Premix	2G/500cc D5	For VT w/pulse 50-100 mg bristojet over 1-2 min	1-4 mg/min	4 mg/min	0.5 mg/min q 30 min

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Lorazepam (Ativan)	50 mg (25 cc) /25 cc D5 = 1:1	1-4 mg IVP	0.01-0.1 mg/kg/hr	0.1 mg/kg/hr	0.01 mg/kg/hr q 10 min
Midazolam (Versed)	50 mg (10 cc) / 40 cc D5 = 1:1	2-5 mg IVP	0.02-0.2 mg/kg/hr	0.2 mg/kg/hr	0.02 mg/kg/hr q 5 min
Milrinone (Primacor) Premix	20 mg/100 cc	50 mcg/kg over 10 min	0.375 – 0.75 mcg/kg/min	0.75 mcg/kg/min Not to exceed 1.13 mg/kg/day	0.125 mcg/kg/min q 15 min
Nesiritide (Natrecor)	1.5 mg/250 cc NS, D5	2 mcg/kg over 1 min	0.01 mcg/kg/min	0.03 mcg/kg/min	Infuse at ordered rate (protocol available)
Nicardipine (Cardene)	25 mg (10cc) in 240 cc NS, D5	NA	5-15 mg/hr	15 mg/hr (150 cc/hr)	2.5 mg/hr q 5 min
Nitroglycerin (Tridil) Premix	50mg/250 cc NS, D5	NA	5-100 mcg/min	200 mcg/min	5 mcg/min q 3 min
Norepinephrine (Levophed) “C”	4 mg/250 cc D5	NA	0.5-12 mcg/min	30 mcg/min	1 mcg/min q 2 min
Otreotide acetate (Sandostatim) (for variceal bleeding)	0.5 mg (500mcg)/500cc NS, D5 = 1mcg:1cc	NA	25-50 mcg/hr	100 mcg/hr	NA
Phenylephrine Hcl (Neo-Synephrine) “C”	50 mg/250 cc NS, D5	100-500 mcg over 1 min., repeat Q 10-15 min PRN	40-60 mcg/min	180 mcg/min	10 mcg/min q 10 min
Procainamide Hcl (Pronestyl)	2 G/500 cc D5	20 mg/min (diluted) max @ 1000mg.	1-6 mg/min	6 mg/min	NA
Propofol (Diprivan) Premix (for ventilated patients only)	1G/100cc or 500mg/50cc = 10mg:1cc	NA	5-50 mcg/kg/min	50mcg/kg/min	5 mcg/kg/min q 5 min
Sodium Nitroprusside (Nipride)	50mg/250 cc D5 Protect from light	NA	0.3 – 4 mcg/kg/min	10 mcg/kg/min (for no longer than 10 min)	0.5 mcg/kg/min q 3 min
Theophylline (Aminophylline)	1000mg aminophylline/1000cc D5	Not home med: 4.7 mg/kg Home med: 2.5 mg/kg Diluted in 100 cc over 30 min	0.24 – 0.63 mg/kg/hr *Theophylline dose*	20 mg/min	NA
800 mg theophylline = 1000 mg aminophylline		*Theophylline dose*			
Vasopressin (ADH) (Pitressin)	BP support/Shock: 50 units/50 cc D5 ----- Variceal Bleed: 100 units/100 cc D5	NA	0.02-0.04 units/min OR 1-2 units/hr ----- 0.2-0.4 units/min	0.04 units/min ----- 0.9 units/min	NA
Vecuronium Bromide (Norcuron) (for ventilated patients only)	100 mg /100 cc NS, D5	80-100 mcg/kg or 0.08 – 0.1 mg/kg	0.8 – 1.2 mcg/kg/min avg. rate	NA	0.1 mcg/kg/min q 3 min

* = Maximum rate unless physician order specifically allows/calls for higher rate. Call physician for additional orders if desired goal is not achieved at PHC max rate.

“F” = filter

“R” = refrigerated

“C” = central line preferred