

SJH/SJE CRITICAL CARE INTRAVENOUS MEDICATIONS CHART

Updated: 3/2017

DRUG NAME	ONSET	CONCENTRATION	DOSING INSTRUCTIONS	DRUG CLASS	HOW TO TITRATE
Amiodarone	Non-specific	450 mg/250 mL D5W only Can NOT mix in NS	Common dose: 1 mg/min for 6 hrs, then 0.5 mg/min infusion	Antiarrhythmic	(Non-titratable) Initiate at 1 mg/min x 6 hours, then 0.5 mg/min infusion
Cisatracurium (Nimbex)	1.5-3 min	200 mg/200 mL NS Can mix in D5W	Bolus Dose: 100 mcg/kg Initial Infusion Rate: 1 mcg/kg/min Maximum Rate of Infusion: 10 mcg/kg/min	NMB / Paralytic	Titrate dose by 2 mcg/kg/min every 10 minutes to achieve a Train-of-Four (TOF) of 1-2 out of 4.
Dexmedetomidine (Precedex)	5-10 min	200 mcg/50 mL 400 mcg/100 mL Can mix in NS and D5W	Initial Infusion Rate: 0.2 mcg/kg/h Maximum Rate of Infusion: 1.5 mcg/kg/h	Sedative (Alpha2 – Adrenergic Agonist)	Titrate dose by 0.1 mcg/kg/h every 15 minutes to achieve a RASS score of 0 to -1. Titrate slowly to avoid hypotension.
Diltiazem (Cardizem)	5 minutes	125 mg/125mL Can mix in NS and D5W	Bolus Dose: 0.25 mg/kg IVP over 2 minutes Initial Infusion Rate: 5 mg/h Maximum Rate of Infusion: 20 mg/h	Ca Channel Blocker Non DHP	Titrate dose by 5 mg/h every 15 minutes to achieve a HR of less than 110 bpm.
Dobutamine	1-10 min	500 mg/250 mL (Standard) Can mix in NS and D5W	Initial Infusion Rate: 2.5 mcg/kg/min Maximum Rate of Infusion: 20 mcg/kg/min	Inotrope	Titrate dose by 2.5 mcg/kg/min every 10 minutes to achieve a MAP of ≥65 mmHg.
Dopamine	5 min	400 mg/250 mL (Standard) Can mix in NS and D5W	Initial Infusion Rate: 2.5 mcg/kg/min Maximum Rate of Infusion: 20 mcg/kg/min	Vasopressor	Titrate dose by 2.5 mcg/kg/min every 10 minutes to achieve a MAP of ≥65 mmHg.
Epinephrine	minutes	5 mg/250 mL (Standard) Can mix in NS and D5W	Initial Infusion Rate: 0.05 mcg/kg/min Maximum Rate of Infusion: 0.45 mcg/kg/min	Vasopressor Cardiac Stimulant	Titrate dose by 0.01 mcg/kg/min every 15 minutes to achieve a MAP of ≥65 mmHg.
Esmolol (Brevibloc)	2-10 min	2,500 mg / 250 mL Pre-mixed	Bolus Dose: 500 mcg/kg Initial Infusion Rate: 50 mcg/kg/min Maximum Rate of Infusion: 200 mcg/kg/min	Antiarrhythmic Beta Blocker	Titrate dose by 50 mcg/kg/min every 4 minutes to achieve a HR of less than 110 bpm.
Etomidate	30-60 sec	20 mg/10 mL or 40 mg/20 mL vials	0.3 mg/kg IVP over 15-60 seconds	General anesthetic Sedative	For rapid sequence intubation
Fentanyl	seconds	1,000 mcg/100 mL NS (Standard) Can mix in D5W	Initial Infusion Rate: 50 mcg/h Maximum Rate of Infusion: 500 mcg/h	Narcotic Analgesic	Titrate dose by 25 mcg/h Q30min to achieve a CPOT score of 0 to 2. If used with sedatives , titrate to a RASS score of 0 to -2. If used with paralytics , titrate to a bispectral index (BIS) of 40 to 60.
Heparin	seconds	25,000 units/250 mL Can mix in NS and D5W	Dose: Weight-based --OR-- PTT-based	Anticoagulant	Based on PTT and Per Protocol per MD orders
Insulin (Regular)	15 min	100 units/100 mL NS only Can NOT mix in D5W	Dose: Based upon blood glucose level	Hormone Agent	Based on Blood Glucose Per protocol per MD order
Isoproterenol (Isuprel)	seconds	1 mg/250 mL Can mix in NS and D5W	Initial Infusion Rate: 2 mcg/min Maximum Rate of Infusion: 20 mcg/min	Inotrope	Titrate dose by 1 mcg/min every 5 minutes. Contact MD for goal titration parameters if not specified.
Lidocaine	minutes	2 g/500 mL Can mix in NS and D5W	Usual range: 1 – 4 mg/min 1 mg/min = 15 mL/hr 3 mg/min = 45 mL/hr 2 mg/min = 30 mL/hr 4 mg/min = 60 mL/hr	Antiarrhythmic	Increase by 1 mg/min up to 4 mg/min until arrhythmia terminated; Stop infusion once rhythm stabilizes
Midazolam (Versed)	1-5 min	100 mg/100 mL Can mix in NS and D5W	Initial Infusion Rate: 1 mg/h Maximum Rate of Infusion: 30 mg/h	Benzodiazepine (Sedative)	Titrate dose by 1 mg/h every 1 hour to achieve a RASS score of 0 to -2. If used with paralytics , titrate to a bispectral index (BIS) of 40 to 60.
Milrinone (Primacor)	5-15 min	20 mg/100 mL D5W Pre-mixed	Bolus Dose: 50 mcg/kg Initial Infusion Rate: 0.375 mcg/kg/min Maximum Rate of Infusion: 0.75 mcg/kg/min	+ Inotrope and Vasodilator	Contact MD for titration instructions and goal titration parameter if not already specified.
Morphine NOT PCA	20 min	100 mg/100 mL Can mix in NS and D5W	Bolus Dose: 1mg Initial Infusion Rate: 1 mg/h Maximum Rate of Infusion: 10 mg/h	Narcotic Analgesic	Titrate dose by 1 mg/h every 30 min to achieve a CPOT score of 0 to 2. If used with sedatives , titrate to a RASS score of 0 to -2. If used with paralytics , titrate to a bispectral index (BIS) of 40 to 60.
Nicardipine (Cardene)	10 min	20 mg/200 mL 25 mg/250 mL Can mix in NS and D5W	Initial Infusion Rate: 5 mg/h Maximum Rate of Infusion: 15 mg/h	Ca Channel Blocker DHP	Titrate dose by 2.5 mg/h every 15 minutes to achieve a SBP of <160 mmHg. Attempt to decrease rate to 3 mg/h once BP is controlled. Rotate the IV infusion site Q12h if administered via a peripheral IV.
Nitroglycerin	1-2 min	25 mg/250 mL (Standard) Can mix in NS and D5W	Initial Infusion Rate: 5 mcg/min Maximum Rate of Infusion: 200 mcg/min	Vasodilator	Titrate dose by 5 mcg/min every 5 minutes to achieve desired effect. Contact MD for goal titration parameter if not already specified.
Nitroprusside (Nipride)	< 2 min	50 mg/250 mL D5W only Can NOT mix in NS	Initial Infusion Rate: 0.5 mcg/kg/min Maximum Rate of Infusion: 10 mcg/kg/min	Veno & Arterial Vasodilator	Titrate dose by 0.25 mcg/kg/min every 3 minutes to achieve a SBP of <160 mmHg. Protect from light.
Norepinephrine (Levophed)	seconds	4 mg/250 mL (Standard) Can mix in NS and D5W	Initial Infusion Rate: 0.05 mcg/kg/min Maximum Rate of Infusion: 0.45 mcg/kg/min	Vasopressor	Titrate dose by 0.05 mcg/kg/min every 3 minutes to achieve a MAP of ≥65 mmHg.
Phenylephrine (Neosynephrine)	seconds	20 mg/250 mL (Standard) Can mix in NS and D5W	Initial Infusion Rate: 50 mcg/min Maximum Rate of Infusion: 260 mcg/min	Vasopressor	Titrate dose by 10 mcg/min Q3min to achieve a MAP of ≥65 mmHg.
Propofol (Diprivan)	seconds	1000 mg/100 mL vial Pre-mixed	Initial Infusion Rate: 10 mcg/kg/min Maximum Rate of Infusion: 50 mcg/kg/min	General Anesthetic/ Sedative	Titrate by 5 mcg/kg/min Q5min to achieve a RASS score of 0 to -2. If used with paralytics , titrate to a bispectral index (BIS) of 40 to 60.
Rocuronium (Zemuron)	1-2 min	250 mg/250 mL (Cont. Inf.) Can mix in NS and D5W	Bolus Dose: 0.6 mg/kg Initial Infusion Rate: 8 mcg/kg/min Maximum Rate of Infusion: 12 mcg/kg/min	Neuromuscular Blockade (Paralytic)	Titrate dose by 25% every 30 minutes to achieve a Train-of-Four (TOF) of 1-2 out of 4.
Succinylcholine	30–60 sec	200 mg /10 mL vials	0.6-1.1 mg/kg IVP over 10 sec (max 150 mg)	NMB / Paralytic	For rapid sequence intubation
Vasopressin	minutes	20 units/100 mL (Standard) Can mix in NS and D5W	Initial Rate: 0.03 units/min (septic shock) Maximum Rate: 0.03 units/min (septic shock) Vasoplegic Syndrome: 0.1-1 unit/min	Vasopressor for Septic Shock and Tx GIB	No titration required for septic shock. If used for diabetes insipidus or variceal hemorrhage, contact MD for dosing and titration instructions.
Vecuronium (Norcuron)	seconds	20 mg/100 mL (Standard) Can mix in NS and D5W	Bolus Dose: 100 mcg/kg IVP Initial Infusion Rate: 0.8 mcg/kg/min Maximum Rate of Infusion: 2 mcg/kg/min	Neuromuscular Blockade (Paralytic)	Titrate dose by 0.2 mcg/kg/min every 10 minutes to achieve a Train-of-Four (TOF) of 1-2 out of 4.