

### Adult ICU Emergency Medication Dosing Guidelines

ACLS Medications	Usual Dose	Max Dose	Drug Package	Comments
Adenosine	6mg	---	Vial	May give additional 12mg dose if no conversion. Defibrillator must be present. Decrease dose to 3mg if pt on dipyridamole or carbamazepine
Amiodarone	150 mg	300 mg	Vial	300mg for VFib or pulseless VT
Atropine	0.5 mg	0.04 mg/kg (or 3 mg)	Syringe	No longer recommended in asystole and PEA
Epinephrine	1 mg	---	Syringe	Given every 3-5 minutes 2-2.5mg if given endotracheally
Lidocaine	1-1.5 mg/kg	3 mg/kg (or 300 mg)	Syringe	For VFib or pulseless VT, If persists after initial dose, may give additional 0.5-0.75mg/kg every 5-10min to max dose
Vasopressin	40 units	---	Vial	May replace 1 <sup>st</sup> or 2 <sup>nd</sup> dose of epinephrine
Magnesium	1-2 g	6 g	Vial	For VFib/pulseless VT with Torsades only
RSI Medications	Usual Dose	Max Dose	Drug Package	Comments
Etomidate	0.2 mg/kg	0.4 mg/kg (or 20 mg)	Vial or Syringe	Give 50% usual dose in hemodynamic instability Decreases seizure threshold
Midazolam	0.03 mg/kg	0.1 mg/kg (or 10 mg)	Vial	Active metabolite is renally eliminated
Propofol	1 mg/kg	2.5 mg/kg (or 200 mg)	Vial	Associated with dose-related hypotension (*give in 20 mg increments) Avoid in hypovolemic patients Caution with peanut allergy (soy derivatives)
Ketamine	1 mg/kg	2.5 mg/kg (or 200 mg)	Vial	Do not use in head injury, heart disease, or hypertensive emergency patients
Rocuronium	1 mg/kg	1.2 mg/kg (or 100 mg)	Vial	Use adjusted BW if > 130% IBW (Paralysis within 60 seconds)
Succinylcholine	1.5 mg/kg	2.0 mg/kg (200 mg)	Vial	Use total BW for dosing (onset within 30 seconds) Do not use if history of malignant hyperthermia or seizures, Caution if at risk for hyperkalemia (muscle disorders, burn, etc)
Miscellaneous	Usual Dose	Max Dose	Drug Package	Comments
Fentanyl	1 mcg/kg	2 mcg/kg (100 mcg)	Ampule	For analgesia if needed with RSI/procedures
Vecuronium	0.1 mg/kg	0.1 mg/kg (or 10 mg)	Vial	Use adjusted BW if > 130% IBW Prolonged effect in renal/hepatic impairment
Naloxone	0.04 mg	0.4 mg (may repeat)	Vial or syringe	Lower doses with re-dosing (q2-3 min) may be needed in opiate-dependent patients
Drips	Standard Concentration	Rate options		Comments
		Start	Max	
Cisatracurium	200mg/250mL	0.5mcg/kg/min	10mcg/kg/min	Paralytic of choice in renal or hepatic insufficiency
Diltiazem	100mg/100mL	5mg/hr	15mg/hr	May bolus 10-25 mg initially
Dobutamine	250mg/250mL	1-5mcg/kg/min	20mcg/kg/min	Does not significantly raise blood pressure but used for inotropic effects
Dopamine	400mg/250mL	1-5mcg/kg/min	20mcg/kg/min	Central line
Epinephrine	4mg/250mL	0.5 mcg/min	10mcg/min	Central line
Esmolol	2500mg/250mL	25mcg/kg/min	300mcg/kg/min	May bolus 50-500 mcg/kg initially
Isoproterenol	1mg/250mL	0.2mcg/min	20mcg/min	Contraindicated in arrhythmia and angina, caution in heart disease
Lidocaine	2000mg/250mL	1-4mg/min	5mg/min	Caution if history of heart block Caution in hepatic dysfunction
Milrinone	40mg/200mL	0.375mcg/kg/min	0.8mcg/kg/min	Accumulates in renal failure
Nitroglycerin	25mg/250mL	5mcg/min	400mcg/min	Increases ICP, caution in TBI
Nitroprusside	50mg/250mL	0.3mcg/kg/min	10mcg/kg/min	Cyanide toxicity risk with renal insufficiency and prolonged infusion Max dose 10mcg/kg/min ≤10 min
Norepinephrine	8mg/250mL	1mcg/min	30mcg/min	Central line
Phenylephrine	30mg/250mL	20mcg/min	200mcg/min	Pure alpha agonist with least effect on heart rate