

Inotropes and Vasopressors

Drug	Available Concentration	Dosing Guidelines	Clinical Notes
Dopamine	40 mg/mL	1-10 ug/kg/min (renal to vasopressor range) mL/hr = dose × wt × 0.06 / conc	Must dilute Tissue necrosis if extravasated
Dobutamine	12.5 mg/mL	2-20 ug/kg/min titrate to effect mL/hr = dose × wt × 0.06 / conc	β ₁ inotrope Minimal vasopressor effect Must dilute
Norepinephrine	1 mg/mL	0.05-1.0 ug/kg/min Start low, titrate mL/hr = dose × wt × 3.6 / conc	Potent vasoconstrictor Central line preferred Must dilute

Anesthetic and Analgesic Agents

Drug	Available Concentration	Dosing Guidelines	Clinical Notes
Fentanyl	50 ug/mL	Load: 2-5 ug/kg IV CRI: 3-10 ug/kg/hr High: 10-20 ug/kg/hr	Short-acting Respiratory depression MAC sparing
Lidocaine	20 mg/mL (2%)	Load: 1-2 mg/kg IV CRI (dogs): 25-80 ug/kg/min Cats: 10-20 ug/kg/min or avoid	Analgesic & antiarrhythmic MAC sparing Use caution in cats
Ketamine	100 mg/mL	Load: 0.5-1 mg/kg IV CRI (dogs): 2-10 ug/kg/min CRI (cats): 1-5 ug/kg/min	NMDA antagonist Cardio-supportive MAC sparing
Propofol	10 mg/mL	Induction: 2-6 mg/kg IV CRI: 0.25-0.5 mg/kg/min Sub-anesthetic: 0.05-0.1 mg/kg/min	Rapid clearance Heinz body anemia in cats Discard after 6 hrs
Alfaxalone	10 mg/mL	Induction: Dogs 1-2 mg/kg, Cats 2-5 mg/kg CRI: 0.07-0.1 mg/kg/min	Wide safety margin Less resp. depression Smooth recovery varies