

DOSAGE CALCULATOR Injectable Perianesthetic Medications for Canine/Feline

Patient Name:

Owner Name:

Species:

- Canine
 Feline

ENTER BODY WEIGHT:

KGS

Tab or click out of *Body Weight* field for calculation

EMERGENCY

DRUG/CONCENTRATION/DOSE RANGE	Volume (mLs)	
	Minimum	Maximum
Atropine (0.54 mg/mL) (0.02 - 0.04 mg/kg)		
Dexamethasone SP (4 mg/mL) (1 - 4 mg/kg)		
Diphenhydramine (50 mg/mL) (1 - 2.2 mg/kg) – max dose 1.0 mL (50 mg)		
Ephedrine (50 mg/mL) (0.05 - 0.1 mg/kg) – dilute to 5 mg/mL		
Glycopyrrolate (0.2 mg/mL) (0.005 - 0.01 mg/kg)		

ADVANCED LIFE SUPPORT (ALS)

DRUG/CONCENTRATION/DOSE RANGE	Volume (mLs)	
	Minimum	Maximum
REVERSAL AGENTS		
Atipamezole (5 mg/mL) (0.05 - 0.1 mg/kg)		
Flumazenil (0.1 mg/mL) (0.01 mg/kg)		
Naloxone (0.4 mg/mL) (0.04 mg/kg)		
VASOPRESSOR DRUGS		
Epinephrine (1 mg/mL) (0.01 - 0.1 mg/kg) IV		
Atropine (0.54 mg/mL) (0.05 mg/kg)		
ANTI-ARRHYTHMIC DRUGS		
Amiodarone (50 mg/mL) (5 mg/kg)		
Lidocaine (20 mg/mL) (2 - 4 mg/kg) (canine) – max dose 8 mg/kg		
Lidocaine (20 mg/mL) (0.2 mg/kg) (feline) – max dose 1 mg/kg		

EQUIPMENT AND SUPPLIES

Breathing Circuit. Base on lean body weight.	<7 kg = NRB	>7kg = Rebreathing 7 - 10 kg = Pediatric >10 kg = Adult	
Rebreathing Bag Size Guideline (L bag) ▶			
REMINDER: Safe minimum oxygen flow rate is 0.5 L/min for all circuits. Adjust oxygen flow rates based on individual pet needs.			
NON REBREATHING CIRCUIT			
	Oxygen Flow Rate (L/min)		
	Minimum	Maximum	
150 - 300 mL/kg/min			
REBREATHING CIRCUIT			
Transition phase	50 - 100 mL/kg/min		
Maintenance phase	20 - 30 mL/kg/min		
IV Catheter Gauge Guideline ▶			
IV FLUID RATE GUIDELINES			
Adjust to individual pet needs and base on lean body weight.			
	Minimum	Maximum	
Crystalloid rate (3 - 5 mL/kg/hr) (canine)			
Crystalloid rate (2 - 4 mL/kg/hr) (feline)			
Crystalloid bolus (5 - 10 mL/kg)			
Colloid bolus (5 - 20 mL/kg/day) (canine)			
Colloid bolus (2.5 - 20 mL/kg/day) (feline)			
Hypertonic saline bolus (2 - 4 mL/kg)			

ANESTHESIA AND ANALGESIA

DRUG/CONCENTRATION/DOSE RANGE	Volume (mLs)	
	Minimum	Maximum
Acepromazine 1 mg/mL (0.005 - 0.05 mg/kg) (canine) – max dose 2 mL (2 mg)		
Acepromazine 1 mg/mL (0.01 - 0.1 mg/kg) (feline) – max dose 1.0 mL (1 mg)		
Alfaxalone (10 mg/mL) (1 - 4 mg/kg)		
Atipamezole (5 mg/mL) (0.05 mg/kg) (dexmedetomidine reversal)		
Atipamezole (5 mg/mL) (0.012 mL/kg - 0.021 mL/kg) (feline DKT reversal)		
Bupivacaine (5 mg/mL) (1 - 2 mg/kg) (canine) – max dose 2 mg/kg		
Bupivacaine (5 mg/mL) (1 - 1.5 mg/kg) (feline) – max dose 1.5 mg/kg		
Buprenorphine (0.3 mg/mL) (0.005 - 0.02 mg/kg) (canine)		
Buprenorphine (0.3 mg/mL) (0.01 - 0.02) (feline)		
Buprenorphine LA (1.8 mg/mL) (0.24 mg/kg)		
Butorphanol (10 mg/mL) (0.2 - 0.4 mg/kg)		
Carprofen (50 mg/mL) (4 - 4.4 mg/kg)		
Dexmedetomidine (0.5 mg/mL) (0.002 - 0.005 mg/kg) (canine)		
Dexmedetomidine (0.5 mg/mL) (0.005 - 0.01 mg/kg) (feline)		
DKT mixture (feline) (0.035 - 0.065 mL/kg)		
Fentanyl (0.05 mg/mL) (0.003 - 0.005 mg/kg)		
Hydromorphone (2 mg/mL) (0.05 - 0.2 mg/kg) (canine)		
Hydromorphone (2 mg/mL) (0.05 - 0.1 mg/kg) (feline)		
Ketamine (100 mg/mL) (1 - 2 mg/kg) (canine)		
Lidocaine (20 mg/mL) (1 - 4 mg/kg) local block (canine) – max dose 10 mg/kg		
Lidocaine (20 mg/mL) (1 - 2 mg/kg) local block (feline) – max dose 5 mg/kg		
Meloxicam (5 mg/mL) (0.2 mg/kg) (canine)		
Meloxicam (5 mg/mL) (0.3 mg/kg) (feline)		
Midazolam (1 mg/mL) (0.1 - 0.3 mg/kg)		
Midazolam (5 mg/mL) (0.1 - 0.3 mg/kg)		
Propofol (10 mg/mL) (1 - 8 mg/kg)		
Robenacoxib (20 mg/mL) (2 mg/kg)		
Tiletamine/ zolazepam (100 mg/mL) (1 - 4 mg/kg)		