

Recommended Anesthetic Agents: *Canine*

Canine	Sedatives / Premedications		
	Name / Dose	Route	Needle Gauge
	Midazolam (0.2-0.5 mg/kg)	IV	≤ 21
	Acepromazine (0.02-0.05 mg/kg) - <i>No more than 1.5 mg maximum dose</i>	SC / IV	≤ 20
	Anesthetics (Induction Agents)		
	Name / Dose	Route	Needle Gauge
	Propofol (6-8 mg/kg) for induction and ET tube placement Maintenance by CRI at (0.2-0.4 mg/kg/min) via IV catheter <i>For induction, give 1/3 - 1/2 dose and monitor to evaluate effect (faster IV delivery may cause apnea).</i>	IV	IV Catheter (22-20G)
	Ketamine (5-10 mg/kg) / Diazepam (0.25-0.5 mg/kg)	Mixed IV	≤ 21
	Ketamine (5-10 mg/kg) / Midazolam (0.1-0.2 mg/kg)	Mixed IV	≤ 21
	Ketamine (10-15 mg/kg) / Xylazine (2 mg/kg) / Acepromazine (0.2 mg/kg)	Mixed IV	≤ 21
Anesthetics (Maintenance Agents)			
Name / Dose	Route	Needle Gauge	
Isoflurane: Induction via face mask for intubation (3 - 4.5%) Maintenance via ET tube (1.5 - 2.5%) <i>Define delivery gas, e.g., 100% O₂</i>	Inhalation via precision vaporizer with scavenger system*	NA	
Sevoflurane: Induction via face mask for intubation (5.5 - 7%) Maintenance via ET tube (2.5 - 6.7%) <i>Define delivery gas, e.g., 100% O₂</i>	Inhalation via precision vaporizer with scavenger system*	NA	

*= Per UMB ACUP [Equipment Maintenance Guidelines](#): Vaporizers must be calibrated annually.

IV - intravenous
SC - subcutaneous
CRI - continuous rate infusion
IM - intramuscular

References:

Fish et al, Anesthesia and Analgesia in Laboratory Animals, 2nd Edition
Hawk et al, Formulary for Laboratory Animals, 3rd Edition
Lumb and Jones' Veterinary Anesthesia, 3rd Edition
Plumb, Veterinary Drug Handbook, 3rd Edition