

# Recommended Anesthetic Agents: Swine

Swine	Sedatives / Premedications		
	Name / Dose	Route	Needle Gauge
	Ketamine (20-25 mg/kg) / Xylazine (2-5 mg/kg)	IM / SC	≤ 20
	Ketamine (25-33 mg/kg) / Acepromazine (0.8-1.1 mg/kg)	IM / SC	≤ 20
	Telazol (4-5 mg/kg) / Xylazine (1.8-2.2 mg/kg) / Midazolam (0.2-0.4 mg/kg) <i>NOTE: Administer Midazolam approx. 5 min prior to Telazol / Xylazine.</i>	IM	≤ 20
	Anesthetics (Maintenance Agents)		
	Name / Dose	Route	Needle Gauge
	Isoflurane: Induction via face mask for intubation (3.5 - 5%) Maintenance via ET tube (1.5 - 3%) <i>Define delivery gas, e.g., 100% O<sub>2</sub></i>	Inhalation via precision vaporizer with scavenger system*	NA
	Sevoflurane: Induction via face mask for intubation (4.5 - 7%) Maintenance via ET tube (3.5 - 4.75%) <i>Define delivery gas, e.g., 100% O<sub>2</sub></i>	Inhalation via precision vaporizer with scavenger system*	NA
	Propofol (2-4.4 mg/kg) - Induction Maintenance by CRI at (0.2-0.4 mg/kg/min) <i>NOTE: Best combined with Fentanyl pre-med; For induction, give 1/2 dose and monitor to evaluate effect (excessive dose may cause apnea).</i>	IV for Induction CRI for maintenance	≤ 20
Supplementary Maintenance Agents			
Name / Dose	Route	Needle Gauge	
Fentanyl (0.05 mg/kg loading dose followed by 0.03-0.1 mg/kg/hr) <i>NOTE: Can reduce chance of cardiac VPCs from anesthesia.</i>	IV for Induction CRI for maintenance	≤ 20	

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

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

References:  
Fish et al, Anesthesia and Analgesia in Laboratory Animals, 2nd Edition  
Lumb and Jones' Veterinary Anesthesia, 3rd Edition  
Swine in the Laboratory MM Swindle, 2nd Edition  
Plumb, Veterinary Drug Handbook, 3rd Edition