



GUIDANCE FOR INVESTIGATORS

Pharmaceutical agents used in rats

Drug	Dose (mg/kg)	Route	Effect	Notes
Anesthesia				
Pentobarbital	40-50 mg/kg	IV, IP	Sedation/ Anesthesia	Respiratory and cardiac depression.
	100 mg/kg	IV, IP	Terminal procedures-euthanasia	
Xylazine	4-8 mg/kg	IM	Sedation	
	10 mg/kg	IP		
Acepromazine	1-2mg/kg	IM	Tranquilization	
Ketamine	75mg/kg	IM, IP	Sedation/ Anesthesia	
Midazolam	5mg/kg	IM, IP	Sedation	
Isoflurane	to effect	inhalation	Anesthesia	<i>Preferred method</i>
Analgesia				
Buprenorphine-dilute buprenex Buprenorphine-long-acting (Etiqa)	0.01-.05mg/kg	SQ, IV Q 8-12hrs	Post op pain	Can be used as pre-emptive analgesia during anesthesia. <i>Preferred method</i>
	0.1ml/ 200g BW	SQ Q 72hrs		
Ibuprofen	10-30mg/kg	PO Q 8 hrs	Moderate pain	
Ketoprofen	5mg/kg	SQ	Moderate pain	
Antibiotics				
Baytril Dilution <i>Mix 1 ml of injectable Baytril with 2 ml sterile saline or water</i>	5mg/kg (1:2 dilution=7.56 mg/ml)	SQ Every 12 hours	Broad spectrum including some anaerobes	Wt
				250g
				300g
				350g
				400g
				450g
				500g
				550g
Bactrim (200mg/5ml) Dilution	3ML diluted in 500 mls drinking water	PO	Broad spectrum, especially Staph spp.	Change solution every 3 days.

Ketamine/Xylazine

Dose Rate:	0.2 ml/100 gm body weight IP, subQ	
Volumes:	Ketamine	5.0 ml
	Xylazine at 20 mg/ml	2.5 ml
	Sterile saline or sterile water	2.5 ml
	Total volume	10.0 ml

Ketamine/Xylazine/Acepromazine

Dose Rate:	0.2 ml/100 gm body weight IP, subQ	
Volumes:	Ketamine	1.0 ml
	Xylazine at 20 mg/ml	0.5 ml
	Acepromazine	0.2 ml
	Sterile saline or sterile water	2.3 ml
	Total volume	4.0 ml