

Species	Drug	Dose *(mg/kg)	Route	Purpose	Comments
Mice	Acetylpromazine	2.0	IP / SC	Sedation / Light Sedation Pre-anesthetic sedative	Causes peripheral vasodilation
	Acetylpromazine / Ketamine mix	100 (K) + 2.5 - 5.0 (A)	Ketamine IP Acepromazin IM	Anesthesia	20-30 minutes anesthesia, 40-120 minutes sleep time. Give Ace IM before Ketamine IP
	Atropine	0.04	IP/IM/SC	Pre-anesthetic, anticholinergic to dry secretions	Shorter duration IP, Longer SC, IM in the middle
	Bupivacaine	1-2 drops	Topical / SC	Local anesthetic /analgesia	
	Buprenorphine HCl	1.0-2.0	SC q 6-8 hours	Systemic analgesia	Use IM for fast, shorter duration analgesia
	Buprenorphine SR Lab	0.5 – 1.0	SC	Long acting analgesia (up to 72 hours)	Single dose on anesthetic induction gives up to 3 days analgesia
	Butorphanol	1.0-2.0	SC q 4 hrs.	Pre-anesthetic & analgesia	SC, can be given IM for faster & shorter duration effects
	Isoflurane	0.5 to 5.0%	Inhalation	Anesthesia	Best through a precision vaporizer, can be used by open drop in closed container with close observation.
	Ketamine	50-200	IP or IM	Anesthesia	Suggested dose 100 mg/kg IP. Minimal analgesia if used alone.
	Ketamine + Dexmedetomidine	K: 75-100 + D: ~0.5-1.0	IP or SC Mix in same syringe	Anesthesia	To re-dose use 1/3 dose of ketamine only. Dex. can be reversed with Atipamezole
	Ketamine + Xylazine	K: 75-150 + X: 10-15	IP or SC Mix in same syringe	Anesthesia	To re-dose use 1/3 dose of ketamine only. Xyl. can be reversed with Atipamezole
	Ketoprofen	5.0	SC	Analgesic	Generally limited to 2-3 days
	Lidocaine (1-2%)	0.5% (dilute if needed)	SC or intraincisional	Analgesia	Do not exceed 7 mg/kg total dose or may see systemic heart effects
	Pentobarbital Na (Nembutal)	40-50	IP	Anesthetic	20-40 min. anesthesia, 120-180 min. sleep time. Euthanasia dose > 100 mg/kg
	Telazol (Tiletamine + Zolazepam)	80	IP	Anesthetic	60-120 min sleep time, estimate 30-40 min anesthesia

Species	Drug	Dose (mg/kg)	Route	Purpose	Comments
Mice (cont.)	Valium (Diazepam)	5.0	IM / IP / IV	Pre-anesthesia / Sedative Antiseizure	IM may cause sterile abscesses due to propylene glycol carrier
	Xylazine	5.0-10	IP	Pre-anesthesia / Sedative	Light sedation, mild to moderate analgesia, Alpha-2 agonist causes vasodilation
	Euthasol	0.02 ml/50 g	IV/IP	Euthanasia	Pentobarbital induces anesthesia, Phenytoin stops cardiac electrical activity
	Fatal Plus	Per bottle	IV/IP	Euthanasia	Pentobarbital is active ingredient
Rats	Acetylpromazine	2.5	IP / IM / SC	Sedation / Light Sedation Pre-anesthetic sedative	Causes peripheral vasodilation
	Atropine	0.04	IP/IM/SC	Pre-anesthetic, anticholinergic to dry secretions	Shorter duration IP, Longer SC, IM in the middle
	Bupivacaine (0.5%)	1-2 drops	Topical / SC	Local anesthetic /analgesia	Do not exceed 8 mg/kg total dose
	Buprenorphine HCl	0.01 - 0.05	SC q 8-12 hours	Systemic analgesia	Use IM for fast, shorter duration analgesia. Works best in combination with NSAID. May induce pica behaviors in rats.
	Buprenorphine SR Lab	1.0 – 1.2	SC	Long acting analgesia (up to 72 hours)	Single dose on anesthetic induction gives up to 3 days analgesia
	Butorphanol	1.0-2.0	SC q 4 hrs.	Pre-anesthetic & analgesia	SC, can be given IM for faster & shorter duration effects
	Carprofen	5.0	SC or oral	Analgesia	Good as multi-modal analgesia with Buprenorphine
	Meloxicam	1.0-2.0	SC or oral	Analgesia	Good as multi-modal analgesia with Buprenorphine

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Rats (cont.)	Meloxicam SR	4.0	SC on anesthesia induction	Analgesia	Provides up to 72 hours of analgesia
	Isoflurane	0.5 to 5.0%	Inhalation	Anesthesia	Best through a precision vaporizer, can be used by open drop in closed container with close observation.
	Ketamine	50-100	IP or IM	Anesthesia	Suggested dose 100 mg/kg IP. Minimal analgesia if used alone.
	Ketamine + Dexmedetomidine	K: 75-90 + D: ~0.5-0.75	IP or SC Mix in same syringe	Anesthesia	To re-dose use 1/3 dose of ketamine only. Dex. can be reversed with Atipamezole
	Ketamine + Xylazine	K: 75-100 + X: 5.0-10	IP or SC Mix in same syringe	Anesthesia	Less reliable than in mice. To re-dose use 1/3 dose of ketamine only. Xyl. can be reversed with Atipamezole
	Ketoprofen	5.0	SC, once daily	Analgesic	Generally limited to 2-3 days, may induce GI bleeding in rats with longer use
	Lidocaine (1-2%)	0.5% (dilute if needed)	SC or intraincisional	Analgesia	Do not exceed 7 mg/kg total dose or may see systemic heart effects. Faster onset but less duration than Bupivacaine.
	Pentobarbital Na (Nembutal)	40-60	IP	Anesthetic	Not 1 st choice for anesthesia. 20-40 min. anesthesia, 120-180 min. sleep time. Euthanasia dose > 100 mg/kg
	Telazol (Tiletamine + Zolazepam)	20-50	IP	Anesthetic	60-120 min. sleep time, estimate 30-40 min. anesthesia
	Valium (Diazepam)	2.5 - 5.0	IM / IP / IV	Pre-anesthesia / Sedative Antiseizure	IM may cause sterile abscesses due to propylene glycol carrier
	Xylazine	1.0-5.0	IM / IP	Pre-anesthesia / Sedative	Light to heavy sedation, mild to moderate analgesia, Alpha-2 agonist causes vasodilation
	Euthasol	0.02 ml/50 g	IV/IP	Euthanasia	Pentobarbital induces anesthesia, Phenytoin stops cardiac electrical activity
	Fatal Plus	Per bottle	IV/IP	Euthanasia	Pentobarbital is active ingredient

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Birds					
	Isoflurane	0.5 to 5.0%	Inhalation	Anesthesia	Best through a precision vaporizer, can be used by open drop in closed container with close observation.

*Plus/minus 10% allowable