

<b>Table 1. Non-steroidal and Opioid Analgesics for Rodents and Lagomorphs</b>							
<b>Analgesic</b>	<b>Class of Drug</b>	<b>Mouse</b>	<b>Rat</b>	<b>Guinea Pig</b>	<b>Gerbil*</b>	<b>Hamster*</b>	<b>Rabbit</b>
Acetylsalicylic Acid	NSAID	120 mg/kg PO only once	100 mg/kg PO only once	80-90 mg/kg PO only once	100 mg/kg PO only once	100 mg/kg PO only once	100 mg/kg PO only once
Carprofen	NSAID	10.0 mg/kg SC or PO q 12-24 hrs	5.0-10.0 mg/kg SC or PO q 12-24 hrs	2.5 mg/kg SC q 24 hrs	5.0-10.0 mg/kg SC or PO q 12-24 hrs	5.0-10.0 mg/kg SC or PO q 12-24 hrs	1.5 mg/kg PO, 4 mg/kg SC q 24 hrs
Diclofenac	NSAID	8.0 mg/kg PO q 24 hrs	10.0 mg/kg PO q 24 hrs	2.0 mg/kg PO q 24 hrs	10.0 mg/kg PO q 24 hrs	10.0 mg/kg PO q 24 hrs	?
Flunixin	NSAID	2.5 mg/kg SC q 12 hrs	1.1-2.5 mg/kg SC q 2 hrs	1.1-2.5 mg/kg SC q 2 hrs	1.1-2.5 mg/kg SC q 2 hrs	1.1-2.5 mg/kg SC q 2 hrs	1.1 mg/kg SC q 12 hrs
Ketoprofen	NSAID	2-5 mg/kg SC q 12-24 hrs	5.0 mg/kg IM q 12-24 hrs	?	5.0 mg/kg IM q 12-24 hrs	5.0 mg/kg IM q 12-24 hrs	3.0 mg/kg IM q 24 hrs
Meloxicam	NSAID	0.2 mg/kg PO q 12-24 hrs	1.0 mg/kg SC or PO q 24 hrs	1-2 mg/kg SC or PO q 24 hrs	1.0 mg/kg SC or PO q 24 hrs	1.0 mg/kg SC or PO q 24 hrs	0.2 mg/kg SC or PO q 24 hrs
Buprenorphine	Opioid	0.1 mg/kg IP or SC q 6-12 hrs	0.05 mg/kg SC q 6-12 hrs – may cause pica particularly in Sprague-Dawley	0.05 mg/kg SC q 6-12 hrs	0.1 mg/kg IP or SC q 6-12 hrs	0.1 mg/kg IP or SC q 6-12 hrs	0.01-0.15 mg/kg IV or SC q 6-12 hrs
Butorphanol	Opioid	1.0-5.0 mg/kg SC q 1-2 hrs	2.0 mg/kg SC q 1-2 hrs	2.0 mg/kg SC q 1-2 hrs	2.0 mg/kg SC q 1-2 hrs	2.0 mg/kg SC q 1-2 hrs	0.1-0.5 mg/kg SC q 1-2 hrs
Morphine	Opioid	2.0-5.0 mg/kg IP or IM q 4 hrs	2.0-5.0 mg/kg IP or IM q 4 hrs	2.0-5.0 mg/kg IP or IM q 4 hrs	2.0-5.0 mg/kg IP or IM q 4 hrs	2.0-5.0 mg/kg IP or IM q 4 hrs	?
Nalbuphine	Opioid	2-4 mg/kg IM q 4 hrs	1-2 mg/kg IM q 4 hrs	1-2 mg/kg IM q 4 hrs	1-2 mg/kg IM q 4 hrs	1-2 mg/kg IM q 4 hrs	1-2 mg/kg IM or IV q 4 hrs
Pethidine (Meperidine)	Opioid	10-20 mg/kg SC or IM q 2-3 hrs	10-20 mg/kg SC or IM q 2-3 hrs	10-20 mg/kg SC or IM q 2-3 hrs	10-20 mg/kg SC or IM q 2-3 hrs	10-20 mg/kg SC or IM q 2-3 hrs	10 mg/kg SC or IM q 2-3 hrs

Table 1. NSAIDs analgesic dose rates are based on published data and the clinical experience of Dr. Paul Flecknell. Refer to manufacturers' data sheets for contraindications and precautions to be observed, particularly for long-term administration. Opioid analgesic dose rates are based on published data and the clinical experience of Dr. Paul Flecknell. Dose should be adjusted to produce the desired effect, and administration repeated as needed to control pain. Particular care should be taken when administering these drugs intravenously, as rapid administration can lead to inadvertent overdose.

\*No good data are available concerning suitable dose rates for gerbils or hamsters, but clinical experience suggests that dose rates suggested for rats are appropriate.

<b>Table 2. Non-steroidal and Opioid Analgesics for Large Laboratory Animal Species</b>							
<b>Analgesic</b>	<b>Class of Drug</b>	<b>Ferret</b>	<b>Cat</b>	<b>Dog</b>	<b>Pig</b>	<b>Sheep</b>	<b>NHP</b>
Acetylsalicylic Acid	NSAID	200 mg/kg PO only once	10-25 mg/kg PO q 24-48 hrs	10-25 mg/kg PO q 24 hrs	?	50-100 mg/kg PO q 6-12 hrs	20 mg/kg PO q 6-8 hrs
Carprofen	NSAID	?	4.0 mg/kg SC or IV once only	2.0 mg/kg SC or IV q12 hrs or 4.0 mg/kg SC or IV q24 hrs. Take care with laborador retrievers and their crosses	2.0-4.0 mg/kg SC or IV q 24h for 2-3 days	1.5-2.0 mg/kg SC or IV q 24h for 2-3 days	2.0-4.0 mg/kg SC or PO q 24 hrs up to 4 days
Flunixin	NSAID	?	1.0 mg/kg IV or IM q 24 hrs	1.0 mg/kg IV or IM q 24 hrs	1.0-2.2 mg/kg IV or SC q 24 hrs	2.0 mg/kg IV or SC q 24 hrs	2.0-4.0 mg/kg SC or IV q 24 hrs
Ketoprofen	NSAID	?	2.0 mg/kg SC q 24 hrs up to 3 days	2.0 mg/kg SC q 24 hrs up to 3 days	3.0 mg/kg SC only once	?	?
Meloxicam	NSAID	?	0.2 mg/kg SC or PO on first day of trtmt, then 0.1 mg/kg q 24 hrs	0.2 mg/kg SC or PO q 24 hrs	0.2-0.3 mg/kg SC or PO q 24 hrs	?	0.2-0.3 mg/kg PO q 24 hrs up to 4 days
Buprenorphine	Opioid	0.01-0.03 mg/kg IM, SC, or IV q 6-12 hrs	0.005-0.01 mg/kg IM, SC, or IV q 6-12 hrs	0.005-0.02 mg/kg IM, SC, or IV q 6-12 hrs	0.005-0.02 mg/kg IM, SC, or IV q 6-12 hrs	0.005-0.01 mg/kg IM, SC, or IV q 6-12 hrs	0.005-0.01 mg/kg IM, SC, or IV q 6-12 hrs
Butorphanol	Opioid	0.4 mg/kg IM or SC q 4 hrs	0.2-0.4 mg/kg IM, or IV q 3-4 hrs	0.2-0.4 mg/kg IM, or IV q 3-4 hrs	0.1-0.5 mg/kg SC q 4-6 hrs	?	0.01 mg/kg IM or IV q 3-4 hrs.
Morphine	Opioid	0.5-2 mg/kg IM or SC q 4-6 hrs	0.1 mg/kg IM q 4 hrs	0.5-5.0 mg/kg IM q 4 hrs	0.2-1.0 mg/kg IM q 4 hrs	0.1-2.0 mg/kg IM q 4 hrs	0.2-1.0 mg/kg IM q 4 hrs
Pethidine (Meperidine)	Opioid	5-10 mg/kg IM q 2-4 hrs	2-10 mg/kg IM or IV q 2 hrs	5-10 mg/kg IM or IV q 2-3 hrs	2 mg/kg IM or IV q 4 hrs	2 mg/kg IM or IV q 2 hrs	?

Table 2. NSAIDs analgesic dose rates are based on published data and the clinical experience of Dr. Paul Flecknell. Refer to manufacturers' data sheets for contraindications and precautions to be observed, particularly for long-term administration. Opioid analgesic dose rates are based on published data and the clinical experience of Dr. Paul Flecknell. Dose should be adjusted to produce the desired effect, and administration repeated as needed to control pain. Particular care should be taken when administering these drugs intravenously, as rapid administration can lead to inadvertent overdose.