

Non-steroidal and Opioid Analgesics for Large Laboratory Animal Species							
Analgesic	Class of Drug	Ferret	Cat	Dog	Pig	Sheep	NHP
Carprofen	NSAID	2-4 mg/kg PO or SC q 24 hrs	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.	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	0.3 mg/kg PO or SC q24 hrs	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	1.0-2.0 mg/kg IV or IM q 24 hrs	2.0-4.0 mg/kg SC or IV q 24 hrs
Ketoprofen	NSAID	1-2 mg/kg PO or SC q 24 hrs	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	1.0 mg/kg IM q 24 hrs for up to 3 days	NA
Meloxicam	NSAID	0.2 mg/kg PO or SC q 24 hrs	0.2 mg/kg SC or PO on first day of treatment, 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	NA	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 8-12 hrs	0.005-0.01 mg/kg IM, SC, or IV q 8-12 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, or SC, q 6-12 hrs	0.01-0.02 mg/kg IM, SC, q 6-12 hrs
Butorphanol	Opioid	0.2-0.8 mg/kg IM or SC q 2 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	0.1-0.3 mg/kg IM q 4-6 hrs	0.5 mg/kg SC q 2-3 hrs	0.05 mg/kg IM q 6-8 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	6-10 mg/kg IM or SC q 2-3 hrs	2 mg/kg IV q 4 hrs Or 4-10 mg/kg IM	2-10 mg/kg IM q 2 hrs	2-4 mg/kg IM q4 hrs
Fentanyl	Opioid	NA	Patch q 72 hrs	Patch q 72 hrs	IV q 4 hrs	NA	NA

Other analgesics and multimodal combinations of analgesics can be used. Please consult with a DLAR veterinarian for further details.

REFERENCES

Anesthesia and Analgesia in Laboratory Animals, Second Edition, Richard E Fish, Marilyn J Brown, Peggy J Danneman, Alicia Z Karas (eds.) American College of Laboratory Animal Medicine Series, 2008.

Formulary for Laboratory Animals, Third Edition, Compiled by C Terrance Hawk, Steven L Leary, Timothy H Morris, American College of Laboratory Animal Medicine and European College of Laboratory Animal Medicine, Blackwell Publishing, 2005.

Formulary for Laboratory Animals, Second Edition, Compiled by C Terrance Hawk, Steven L Leary, Timothy H Morris, American College of Laboratory Animal Medicine and European College of Laboratory Animal Medicine, Blackwell Publishing, 1999.