

Recommended Analgesic Regimens for MICE by Procedure Severity

Mild Pain (e.g., tail biopsy of mice >21 days of age, needle biopsy, percutaneous pellet implantation)

Drug	Dose	Route	Administration Frequency	Treatment Duration
meloxicam	5-10 mg/kg	SQ, PO	once	24 hours
carprofen	5-20 mg/kg	SQ	once	12-24 hours

Moderate Pain Minor surgical procedures (e.g., subcutaneous pump implantation, simple vascular cut down)

Drug	Dose	Route	Administration Frequency	Treatment Duration
meloxicam	5-10 mg/kg	SQ, PO	Q24 hours	24 hours
carprofen	5-20 mg/kg	SQ	Q12 hours	24 hours
buprenorphine	0.1-2 mg/kg	SQ	Q5-8 hours	24 hours
bupivacaine*	2 mg/kg	SQ at incision	once	4-6 hours

Severe Pain Major surgical procedures (e.g., laparotomy, thoracotomy, craniotomy, extensive tissue dissection)

Drug	Dose	Route	Administration Frequency	Treatment Duration
meloxicam	5-10 mg/kg	SQ, PO	Q24 hours	48 hours
carprofen	5-20 mg/kg	SQ	Q12 hours, Q24 with buprenorphine	48 hours
buprenorphine	0.1-2 mg/kg	SQ	Q5-8 hours	48 hours
buprenorphine*	0.1-2 mg/kg	SQ	once	3-5 hours
buprenorphine SR	0.5-1.5mg/kg	SQ	once	72 hours
bupivacaine*	2 mg/kg	SQ at incision	once	4-6 hours

* Agents are recommended in addition to the listed NSAIDs as a part of a multimodal analgesic regimen.

SR= Sustained Release