



Animal Care and Use Program

SOP: Analgesics Recommended to Reduce Pain and Distress in Rats, Mice and Rabbits

Objective:	To provide guidance on appropriate analgesia in rodents
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- **BUPRENORPHINE** should be given 30 minutes prior to recovery from anesthesia to ensure analgesia is present at time of anesthetic recovery.
- **CARPROFEN** should be given 1-2 hours prior to survival surgery to ensure analgesia is present at time of anesthetic recovery.

PROCEDURE	RAT	MOUSE	RABBIT
LAPAROTOMY	<p>Buprenorphine: 0.05 mg/kg (SC) q 8-12h</p> <p>Carprofen: 2.5 - 5 mg/kg (SC) q24h</p>	<p>Buprenorphine: 0.05 mg/kg (SC) q 8-12 h</p> <p>Carprofen: 2.5 - 5 mg/kg (SC) q24h</p>	<p>Buprenorphine: 0.01-0.1 mg/kg (SC,IM, IV) q 6-12 h</p> <p>Carprofen: 1.5 mg/kg (SC) q24h</p>
THORACOTOMY	<p>Buprenorphine: 0.05 mg/kg (SC) q6-12h</p> <p><u>PLUS</u></p> <p>Bupivacaine: Local infiltration along surgery site during closure</p>	<p>Buprenorphine: 0.05 mg/kg (SC) q6-12h</p> <p><u>PLUS</u></p> <p>Bupivacaine: Local infiltration along surgery site during closure</p>	<p>Buprenorphine: 0.01-0.1 mg/kg (SC, IM,IV), q 6-12 h</p> <p><u>PLUS</u></p> <p>Bupivacaine: Local infiltration along surgery site during closure</p>
ORTHOPEDIC	<p>Buprenorphine: 0.05 mg/kg (SC) q6-12h</p>	<p>Buprenorphine: 0.05 mg/kg (SC) q6-12h</p>	<p>Buprenorphine: 0.01-0.1 mg/kg (SC, IM, IV) q 6-12 h</p>
CUT-DOWN	<p>Bupivacaine: Local infiltration along surgery site during closure</p> <p><u>OR</u></p> <p>Buprenorphine 0.05mg/kg (SC) q6-12h</p>	<p>Bupivacaine: Local infiltration along surgery site during closure</p>	<p>Bupivacaine: Local infiltration along surgery site during closure</p>

<p>CRANIOTOMY</p>	<p>* 3% Lidocaine gel on ear bars and infiltrate incision line</p> <p><u>PLUS</u></p> <p>Buprenorphine: 0.05mg/kg (SC) q6-12h</p> <p><u>OR</u></p> <p>Carprofen 2.5 - 5 mg/kg (SC) q24h</p>	<p>* 3% Lidocaine gel on ear bars and infiltrate incision line</p> <p><u>PLUS</u></p> <p>Buprenorphine: 0.05mg/kg (SC) q6-12h</p> <p><u>OR</u></p> <p>Carprofen 2.5 - 5mg/kg (SC) q24h</p>	<p>Buprenorphine 0.01-0.1 mg/kg (SC,IM,IV) q6-12h</p> <p><u>OR</u></p> <p>Carprofen 1.5 mg/kg (SC) q24h</p>
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Revision History

Re-approved May 19, 2014; July 20, 2017; June 19, 2020
 Administrative changes September 16, 2022