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| **2. RESPONSIBILITY**

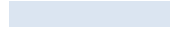
| **3. GENERAL CONSIDERATIONS**

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Macaques

Analgesic	Dose	Route	Frequency	Note					
Buprenorphine Slow Release (SR)	0.2 mg/kg	SC	48-72 hrs	Buprenorphine SR is a sustained release buprenorphine product that has been developed to provide up to 72 hours of analgesia in NHPs. See administration instructions in section 7.1. Controlled drug.					
Carprofen	2-4 mg/kg	SC, IM	12-24 hrs.	4mg/kg first dose, then 2mg/kg.					
	0.5-0.15 µg/kg (bolus)	IM	Bolus	For moderate to severe pain. Controlled drug					
	7-20 µg/kg/hr (constant rate infusion)	IV	Constant rate infusion						
	1-2 mg/kg	m	2	7	7	0	g	4	4

SOP REVISION HISTORY



2021.11.01	Fentanyl. Dose: 0.5-0.15 µg/kg (bolus), 7-10 µg/kg/hr (constant rate infusion), Route: IM Bolus, IV Constant rate infusion, Notes: For moderate to severe pain. Controlled drug.
2021.11.01	Gabapentin. Dose: 10-50 mg/kg, Route: PO, Frequency: 8-12 hrs, Notes: Anticonvulsant with some analgesic properties. Should be used for multimodal analgesia and not as a single analgesic agent.
2021.11.01	[Added section specifically for marmosets]
2021.11.01	7.1.2. Use a 23g needle to draw up and administer the buprenorphine SR with an 18g needle and change to a 23g needle prior to administration.
2021.11.01	8.3. DiVincenti L Jr. Analgesic use in nonhuman primates undergoing neurosurgical procedures. J Am Assoc Lab Anim Sci. 2013 Jan;52(1):10-6. PMID: 23562027; PMCID: PMC3548195. 8.4. Radulovic LL, Türck D, von Hodenberg A, Vollmer KO, McNally WP, DeHart PD, Hanson BJ, Bockbrader HN, Chang T. Disposition of gabapentin (neurontin) in mice, rats, dogs, and monkeys. Drug Metab Dispos. 1995 Apr;23(4):441-8. PMID: 7600909. 8.5. Sabrina R. Bourgeois, Maribel Vazquez & Kathleen Brasky (2007) Combination Therapy Reduces Self-injurious Behavior in a Chimpanzee (Pan Troglodytes Troglodytes): A Case Report, Journal of Applied Animal Welfare Science, 10:2, 123-140, DOI: 10.1080/10888700701313454.
2022.03.08	7. Acetaminophen. Dose: 15 mg/kg, Route: PO, Frequency: 4-6 hrs., Notes: For mild pain.
2022.03.08	7. Gabapentin. Dose: 10-50 mg/kg, Route: PO, Frequency: 8-12 hrs, Notes: Anticonvulsant with some analgesic properties. Should be used for multimodal analgesia and not as a single analgesic agent.
2022.03.08	7. Ketamine. Dose: 0.1-1.0 mg/kg. After initial bolus, constant rate infusion of 0.1-0.3 mg/kg/hr, Route: SC, IM, IV, Notes: Controlled drug.
2023.07.28	7. General analgesia (Marmoset) Buprenorphine Slow Release (SR) Dose: 0.03-0.1 0.2 mg/kg
2023.07.28	8.6. Fabian, N. J., Moody, D. E., Averin, O., Fang, W. B., Jamiel, M., Fox, J. G., Burns, M. A., & Haupt, J. L. (2021). Pharmacokinetics of Single-Dose Intramuscular and Subcutaneous Injections of Buprenorphine in Common Marmosets (Callithrix jacchus). Journal of the American Association for Laboratory Animal Science : JAALAS, 60(5), 568