

CCMS Recommended Analgesics and Anesthetics Drug Formulary

Drug Name	Amphibians	Mice	Rat	Guinea Pig	Rabbit	Dog	Ferret	Cat	Pig	Sheep	NHP
Acepromazine		1-2 mg/kg IM SC; 2-5 mg/kg IP	1-2 mg/kg IM, SC	0.5-1 mg/kg IM	0.05-0.2 mg/kg IV, IM, SC	0.05-0.5 mg/kg IV, IM, SC	0.2-0.5 mg/kg IM, SC	0.05-0.2 mg/kg IV, IM, SC	0.1-0.2 mg/kg IV, IM, SC	0.05- 0.55mg/kg IV, IM, SC	
Acetaminophen											5-15 mg/kg PO BID-TID
Aspirin						10 mg/kg PO BID			10 mg/kg PO BID		
Atipamazole		1.0-2.5 mg/kg IP	1 mg/kg SC	1 mg/kg SC	1 mg/kg IP, SC	0.05-0.4 mg/kg IM, IV	0.4 mg/kg IM; 1 mg/kg SC, IV	0.3-0.5 mg/kg IV, SC		0.02 mg/kg IV	
Benzocaine	100-200 mg/L immersion										
Buprenorphine		0.05 - 0.1mg/kg SC BID	0.1 - 0.5 mg/kg SC BID	0.5 mg/kg SC BID	0.02-0.05 mg/kg SC,IM,IV BID	0.01-0.03 mg/kg SC,IM, BID	0.01-0.03 mg/kg IM, SC	0.005-0.01 mg/kg SC,IM BID	0.005-0.01 mg/kg IV,IM BID	0.005-0.01 mg/kg IV,IM BID	0.01 mg/kg IV,IM BID
Diazepam		5 mg/kg IP	2.5 mg/kg IP IM, 4 mg/kg IP IM	1-5 mg/kg IP	5 mg/kg IM,IV	1 mg/kg IM,IV,PO	0.5-1 mg/kg PO, IM, IV	1 mg/kg IM,IV,PO	0.5-10 mg/kg IM	0.5-1.5 mg/kg IM,IV	1 mg/kg IM,IV
Fentanyl						0.04-0.08 mg/kg IV,IM,SC q 1-2 hr			0.02-0.05 mg/kg IM, IV		0.05-0.1 mg/kg IM, SC; 0.005- 0.01 mg/kg IV
Fentanyl transdermal						50 ug/hr for 10- 20kg			50 ug/hr for 10-20kg		
Flunixin meglumine		2.5 mg/kg BID SC IM	1.1 mg/kg SC IM BID; 2.5 mg/kg SC IM	1-2 mg/kg SC	1.1 mg/kg IM,SC BID	0.5-2.2 mg/kg IM/IV SID	0.3 mg/kg SC SID < 5days	0.3 mg/kg IM; 1.1 mg/kg IV SID	1-2.2 mg/kg IM, IV SID/BID	0.5-2.2 mg/kg IM, IV SID	0.5 mg/kg IM SID IM
Isoflurane		Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 2-3% for maintenance	Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 1-3% for maintenance	Up to 5 % for induction; 2- 3% for maintenance	Up to 5 % for induction; 1-3% for maintenance
		Open drop method risky (please consult veterinarian prior to use)	Open drop method risky (please consult veterinarian prior to use)								
Ketoprofen		2-5 mg/kg SC	5 mg/kg IM SC	1 mg/kg SC, IM			1 mg/kg PO, IM, SC, SID < 5 days				
Ketamine		100-200 mg/kg IM IP	100 mg/kg IM, 75 mg/kg IP	22-44 mg/kg IM, 22-64 mg/kg IP	10-30 mg/kg IM,IV		30 mg/kg IM	10-30 mg/kg IM; 2-4 mg/kg IV	15-25 mg/kg IM, IV	22-44 mg/kg IM	10 mg/kg IM,IV
Ketamine/ Acepromazine		100 mg/kg ketamine IM and 2.5 mg/kg acepromazine IM	75 mg/kg ketamine IM and 2.5 mg/kg acepromazine IM	125 mg/kg ketamine IM and 5 mg/kg acepromazine IM	25-40 mg/kg ketamine and 1 mg/kg acepromazine IM	11-18 mg/kg ketamine and 0.2mg/kg acepromazine IM	20-35 mg/kg ketamine and 0.2 mg/kg acepromazine SC, IM	20 mg/kg ketamine and 0.1 mg/kg acepromazine IM	33 mg/kg ketamine and 1.1 mg/kg acepromazine IM		
Ketamine/ Diazepam		200 mg/kg ketamine IM and 5 mg/kg diazepam IP	40-80 mg/kg ketamine IP and 5-10 diazepam mg/kg IP	100 mg/kg ketamine IM and 5 diazepam mg/kg IM	25 mg/kg ketamine and 5 mg/kg diazepam IM	10 mg/kg ketamine and 0.5 mg/kg diazepam IM,IV	10-20 mg/kg ketamine and 2 mg/kg diazepam IM	5.5 mg/kg ketamine and 0.3 mg/kg diazepam IV; 5.0 mg/kg ketamine and 0.4 mg/kg diazepam IM	15 mg/kg ketamine and 2 mg/kg diazepam IM		
Ketamine/Xylazine		90-120 mg/kg ketamine IM and 5 mg/kg xylazine IM	40-80 mg/kg ketamine IP and 5 mg/kg xylazine IP	50 mg/kg ketamine IP and 5 mg/kg xylazine IP	35 mg/kg ketamine and 5 mg/kg xylazine IM	10 mg/kg ketamine and 1- 2 mg/kg xylazine IM	10-25 mg/kg ketamine and 1- 2 mg/kg xylazine	10 mg/kg ketamine and 1 mg/kg xylazine IM	20 mg/kg ketamine and 2 mg/kg xylazine IM	5-10 mg/kg ketamine and 0.1-0.2 mg/kg xylazine IM	Not recommended
Ketamine/Xylazine/ Acepromazine		30 mg/kg ketamine IM, 6 mg/kg xylazine IM, and 1 mg/kg acepromazine IM			35 mg/kg ketamine, 5 mg/kg xylazine, 0.75 mg/kg acepromazine IM						
Medetomidine		0.03-0.1 mg/kg SC	0.03-0.1 mg/kg IP, SC	0.03 mg/kg SC	0.1-0.5 mg/kg IM, SC	0.01-0.08 mg/kg IM, IV	0.08-0.2 mg/kg IM, SC	0.01-0.04 mg/kg IM, IV	0.08 mg/kg IM	0.01-0.025 mg/kg IM	
Propofol		20-30 mg/kg IV	10 mg/kg IV		1.5 IV bolus followed by 0.2 0.6 mg/kg/min CRI	6 mg/kg IV	5-8 mg/kg IV	8 mg/kg IV	5-10 mg/kg IV for induction; 12 mg/kg/hr CRI	4-6 mg/kg IV	2 mg/kg IV
Sufentanil									0.007 mg/kg IV bolus, 0.015-0.030 mg/kg/h CRI		
Tiletamine/ Zolazepam		Not recommended	20-40 mg/kg IM	10-30 mg/kg IM	Not recommended	7-25 mg/kg IM; 4-10 mg/kg IV	12-22 mg/kg IM	10 mg/kg IM; 5- 7 mg/kg IV	5-7 mg/kg IM	6-8 mg/kg IM	2-5 mg/kg IM
Tricainemethane sulfonate (MS-222) 0.1%	250 mg/l immersion										
Xylazine		4-8 mg/kg IM	4-8 mg/kg IM	3-5 mg/kg IM	2-5 mg/kg IM	0.5-1 mg/kg SC IM	1 mg/kg SC, IM	0.5-1 mg/kg SC, IM	5 mg/kg IM	0.5-1 mg/kg SC, IM	Not recommended
Yohimbine		0.5-1.0 mg/kg IP	0.5-1.0 mg/kg IP	0.5-1.0 mg/kg IP	0.2 mg/kg IV slowly	0.1 mg/kg IV slowly	0.2 mg/kg IV	0.1 mg/kg IV	0.125-0.3 mg/kg IV	0.2 mg/kg IV slowly	

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References

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Veterinary Drug Handbook. 3rd Edition, Plumb DC, 1999 Iowa State University Press, Ames, Iowa

Exotic Animal Formulary. 3rd Edition, Carpenter, JW, 2005 Elsevier, Inc. St. Louis, Missouri