

Anesthetics, Analgesics, Tranquilizer Drugs and Dosages for Large Animals

Analgesics

Drug: Carprofen Class of Drug: NSAID	
Dog	2 mg/kg SC q 12 hours or 4 mg/kg SC q 24 hours
Pig	2 – 3 mg/kg SC or PO; q 12 hours
Sheep	2 – 4 mg/kg SC or IM ; q 24 hours

Drug: Flunixin meglumine Class of Drug: NSAID	
Dog	Not recommended
Pig	1 – 4 mg/kg SC or IM; q 12-24 hours
Sheep	2.2 mg/kg IM or IV; q 12-24 hours

Drug: Meloxicam Class of Drug: NSAID	
Dog	0.3 mg/kg SC or PO; q 24 hours
Pig	0.4 mg/kg SC or IM; q 24 hours
Sheep	1 mg/kg SC (single dose, do not repeat)

Drug: Buprenorphine Class of Drug: Opioid	
Dog	0.005 – 0.02 mg/kg SC, IM, or IV; q 6-12 hours
Pig	0.01 – 0.05 mg/kg SC or IM; q 8-12 hours
Sheep	0.005 – 0.01 mg/kg SC, IM, or IV q 6-12 hours

Drug: Butorphanol Class of Drug: Opioid	
Dog	0.2 – 0.4 mg/kg IM or IV; q 3-4 hours
Pig	0.1 -0.3 mg/kg IM; q 6 hours
Sheep	0.1 - 0.5 mg/kg SC; q 2-3 hours

Drug: Tramadol Class of Drug: Opioid	
Dog	2 – 5 mg/kg PO; q 8 hours

Anesthetics, Tranquilizers, Sedatives, and Reversal Agents

Drug: Acepromazine	
Class of Drug: Phenothiazine tranquilizer	
Dog	0.025 – 0.1 mg/kg SQ or IM; do not exceed 3 mg
Pig	0.2 - 1.1 mg/kg IM, SC, or IV
Sheep	0.5 mg/kg SC, IM, or IV

Drug: Dexmedetomidine	
Class of Drug: Alpha-2 Agonist	
Dog	Pre-anesthesia: 375 mcg/m ² IM Sedation/Analgesia: 375 mcg/m ² IV or 500 mcg/m ² IM

Drug: Atipamezole (reversal for Dexmedetomidine)	
Class of Drug: Alpha-2 antagonist	
Dog	Match route and volume of dexmedetomidine given

Drug: Diazepam	
Class of Drug: Benzodiazepine	
Dog	Pre-anesthetic: 0.5 mg/kg IV
Pig	0.5 - 10 mg/kg IM, SC
Sheep	0.1- 0.3 mg/kg IV

Drug: Flumazenil	
Class of Drug: Benzodiazepine Reversal Agent	
Dog, Pig, Sheep	0.02 mg/kg IV

Drug: Xylazine and Telazol	
Class of Drug: Alpha-2 Agonist and Dissociative Anesthetic/Benzodiazepine, respectively	
Pig	[0.25 – 0.5 mg/kg (X)] + [0.25 – 0.5 mg/kg (T)] IV

Drug: Telazol, Ketamine, Xylazine (TKX)	
Class of Drug: Dissociative Anesthetic/Benzodiazepine, Dissociative Anesthetic, and Alpha-2 Agonist, respectively	
Pig	Reconstitute Telazol bottle with 2.5 ml Ketamine (100mg/ml) and 2.5 ml Xylazine (100mg/mL), then give 0.02 – 0.04 ml/kg IM.

Drug: Yohimbine Class of Drug: Alpha-2 antagonist (reversal for Xylazine)	
Pig	1 mg/kg IV

Drug: Ketamine and Diazepam Class of Drug: Dissociative anesthetic and Benzodiazepine, respectively	
Dog	[5 mg/kg (K)] + [0.25 mg/kg (D)] IV for induction
Pig	[15 mg/kg (K)] + [2 mg/kg (D)] SC or IM for sedation
Sheep	[4.0 mg/kg (K)] + [0.4 mg/kg (D)] IV for induction

Drug: Alfaxalone Class of Drug: Neuroactive Steroid	
Dog	1 – 3 mg/kg IV for induction

Drug: Propofol Class of Drug: Sedative/Hypnotic	
Dog	4 – 6 mg/kg IV
Pig	0.83-1.66 mg/kg IV; 12-20 mg/kg/hr continuous IV infusion
Sheep	3-5 mg/kg IV; 0.4-0.5 mg/kg/min continuous IV infusion

Drug: Isoflurane Class of Drug: Inhalant Anesthetic	
Dog, Pig, Sheep	1 – 4 % inhalant to effect

Drug: Lidocaine Class of Drug: Local Anesthetic	
Dog	Local Block: 8 – 10 mg/kg SC Epidural: 4.4 mg/kg (2% solution)
Pig and Sheep	Local Block: 5 - 6 mg/kg SC Epidural: 1 ml/200 lbs (2% solution)

Drug: Bupivacaine Class of Drug: Local Anesthetic *recommended over lidocaine due to longer duration of action	
Dog, Pig Sheep	Local Block: 1 – 2 mg/kg SC

References

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