Drug Chart

Volume (mL) = *(dose (mg/kg) × weight (kg)) ÷ concentration (mg/mL)*

Drug	Concentration (mg/ml)	Dose (mg/kg)	Example Calculation (Goat weighing 50 kg)	Route of Administration	Indication	Contraindications	Withdrawal Time
Flunixin meglumine (NSAID)	50mg/ml	2.2mg/kg	(2.2mg/kg x 50kg) / 50mg/ml = 2.2ml	IV, IM, Orally	• Treatment of pain, inflammation and swelling.	• Use with caution in animals with cardiac or hepatic impairment. • Do not use if parturition is expected within 48 hours	Meat - 5-14 d Milk - 12-48 hrs
Meloxicam (NSAID)	120mg/ml	2mg/kg	2mg/kg x 50kg) / 120mg/ml = 0.8ml	Orally	• Given SC or IV for pain relief and inflammation	• Ulcerated GIT • Nephrotoxicity • Not to be used in pregnant animals	Meat - 15 days Milk - 5 days

Drug	Concentration	Dose	Calculation	Route	Uses	Cautions	Withdrawal
Procaine Penicillin G (Antibiotic)	200,000IU	20,000IU	(2mg/kg x 50kg) / 20 = 5ml	IM	• Prevents infection from Gram negative bacteria such as *Streptococci, Pasteurella multocida* and *Mannheimia haemolytica*	• Avoid injection volumes greater than 30 mL per site.	30 d
Lidocaine hydrochloride (Local anesthetic)	20mg/ ml (2%)	2mg/kg	(2mg/kg x 50kg) / 20mg/ml = 5ml	IV, SC, Epidural, Topical	• 100% nerve block. • Short acting local anesthetic. • Effective for 45 to 90 minutes	• Use with caution in animals that are pregnant and those with cardiac or hepatic impairment	Meat - 1 day Milk - 24 hours
Xylazine (Alpha 2 agonist)	20mg/ml (2%)	0.05-0.2mg/kg	(0.05mg/kg x 50kg) / 20mg/ml = 0.1ml	IV, IM	• Preanesthetic • Analgesia for a few hours	• Cardiac or respiratory disease • Hypotensive animals • Maintain in sternal	Meat - 14 d Milk - 48hr

						recumbency to avoid bloat	
Tolazoline	100mg/ml	0.1mg/kg	(0.1mg/kg x 50kg) / 100mg/ml = 0.05ml	IV, IM	• Reversal agent for Xylazine		4 days
Tetanus antitoxin	15000 IU/ml	5000 IU/ml		IV			4 days

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