

Drug Chart for Pre-Anesthetics

$$\text{Volume (mL)} = (\text{dose (mg/kg)} \times \text{weight (kg)}) \div \text{concentration (mg/mL)}$$

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	$(2.2\text{mg/kg} \times 50\text{kg}) / 50\text{mg/ml} = 2.2\text{ml}$	IV, IM, Orally	<ul style="list-style-type: none"> Treatment of pain, inflammation and swelling. 	<ul style="list-style-type: none"> 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	$2\text{mg/kg} \times 50\text{kg} / 120\text{mg/ml} = 0.8\text{ml}$	Orally	<ul style="list-style-type: none"> Given SC or IV for pain relief and inflammation 	<ul style="list-style-type: none"> Ulcerated GIT Nephrotoxicity Not to be used in pregnant animals 	Meat - 15 days Milk - 5 days

Procaine Penicillin G (Antibiotic)	200,000IU	20,000IU	$(2\text{mg/kg} \times 50\text{kg}) / 20 = 5\text{ml}$	IM	<ul style="list-style-type: none"> Prevents infection from Gram negative bacteria such as <i>Streptococci</i>, <i>Pasteurella multocida</i> and <i>Mannheimia haemolytica</i> 	<ul style="list-style-type: none"> Avoid injection volumes greater than 30 mL per site. 	30 d
Xylazine (Alpha 2 agonist)	20mg/ml (2%)	0.05-0.2mg/kg	$(0.05\text{mg/kg} \times 50\text{kg}) / 20\text{mg/ml} = 0.1\text{ml}$	IV, IM	<ul style="list-style-type: none"> Preanesthetic Analgesia for a few hours 	<ul style="list-style-type: none"> Cardiac or respiratory disease Hypotensive animals Maintain in sternal recumbency to avoid bloat 	Meat - 14 d Milk - 48hr
Tolazoline	100mg/ml	0.1mg/kg	$(0.1\text{mg/kg} \times 50\text{kg}) / 100\text{mg/ml} = 0.05\text{ml}$	IV, IM	<ul style="list-style-type: none"> Reversal agent for Xylazine 		4 days
Tetanus antitoxin	15000 IU/ml	5000 IU/ml		IV			4 days

References

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