

SUBCONJUNCTIVAL INJECTION

<i>Drug Name</i>	<i>Concentration (mg/mL)</i>	<i>Dose (mg/kg)</i>	<i>Duration of effect</i>	<i>Type of drug</i>	<i>Route of administration</i>	<i>Calculation (weight approx 600kg)</i>	<i>Withdrawal time</i>	<i>Contraindications</i>
Proparacaine hydrochloride			Immediate onset within one min, and may last 15-30 mins	Anaesthetic to the cornea	Topical drops		none	Prolonged use may produce permanent corneal opacification with visual loss, and may delay wound healing
Combikel 40 L.A. (Pen-Strep)	200,000IU/mL	40,000IU/kg	2-4 days in ruminants	antibiotic	IM	$(600\text{kg} \times 40,000) \div 200,000 = 120\text{mL}$	30 days for meat, 10 days for milk	Do not use on patients with septicaemia, shock, or other severe illnesses.
Banamine (Flunixin meglumine)	50mg/ml	1mg/kg	36 hours	NSAID	IV	$(600\text{kg} \times 1\text{mg/kg}) \div 50\text{mg/ml} = 12\text{ml}$	21 days-meat	Not for use in dairy cows

Xylazine	100mg/mL	0.015–0.02 mg/kg	20-40 mins	Alpha2 agonist	IM/IV	$(600\text{kg} \times 0.015\text{mg/kg}) \div 100\text{mg/ml} = 0.09\text{ml}$ This must be diluted in water to achieve accurate volume measurements	4 days for milk/ 24 hours after I.M.	Excitement & vomiting may be side effects
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EXENTERATION

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Penstrep	200000 IU/mL	22,000 IU/kg	3 days	Broad spectrum antibiotic	IM	$(600\text{kg} \times 22000\text{IU/kg}) \div 200000 \text{ IU/mL} = 66\text{mLs}$	21 days- meat 3 days- milk	Do not administer to animals known to be sensitive to penicillin
Banamine (Flunixin meglumine)	50mg/ml	1mg/kg	36 hours	NSAID	IV	$(600\text{kg} \times 1\text{mg/kg}) \div 50\text{mg/ml} = 12\text{ml}$	21 days- meat	Not for use in dairy cows
Lidocaine	20mg/ml	2mg/kg	0.5-3 hours	Local Analgesia	SQ	$(600\text{kg} \times 2\text{mg/kg}) \div$	4 days- meat 72 hours-	Contraindicated in animals

						20mg/ml = 60ml	milk	with a known hypersensitivity to the drug
THIRD EYELID REMOVAL								
Drug Name	Concentration (mg/mL)	Dose (mg/kg)	Duration of effect (hr)	Type of drug	Route of administration	Calculation (weight approx (500 kg cow))	Withdrawal time	Contraindications
Lidocaine hydrochloride	20mg/ml (2%)	2mg/kg	45-90 mins	Local anesthesia 100% nerve block Short acting	IV, SC, Epidural, Topical	(2mg/kg x 500kg) / 20mg/ml = 50ml 50ml/4 = 12.5ml	Meat - 28 days Milk - 15 days	Toxic dose: 10mg/kg (caution in use with calves) Use with caution in animals that are pregnant and those with cardiac or hepatic impairment
propraracaine 1%			15-30 mins	Ophthalmic solution	Topically (2- 3 drops)			Prolonged use may

				Corneal anesthesia				produce permanent corneal opacification with visual loss, and may delay wound healing
Xylazine	20mg/ml	0.2 mg/kg	45 minutes	Alpha 2 agonist Preanesthetic	IV, IM	(0.2mg/kg x 500kg) / 20mg/ml = 5ml	Meat - 14 d Milk - 48hr	Cardiac or respiratory diseased patients, last trimester of pregnancy. Chance of bloating
Tolazoline	100mg/ml	0.1mg/kg		Reversal agent for Xylazine	IV, IM		4 days	
Ketamine	50mg/ml	2mg/kg		Induction agent	IV, IM		Meat - 3 days Milk - 24 hours	Increased heart rate, cardiac output and blood pressure
Flunixin meglumine	50mg/ml	2.2mg/kg		NSAID	IV, IM, orally	(2.2mg/kg x 500kg) /	Meat - 5-14 d	Use with caution in

