DRUGS	INDICATIONS	CALCULATIONS	WITHDRAWAL TIMES	CONTRAINDICATIONS
2% Xylazine	Dose-dependent sedation and analgesia. Premedication for surgery.	$Volume = \frac{220Kg \times 0.05 mg/Kg}{20 mg/mL}$ $Volume = 0.55 mL$	Milk – 0 hours Meat – 0 days	Hypersensitivity 25 mi Withcravat limits Most risk and confest Mo
10% Ketamine	For induction of anaesthesia in combination with $\alpha 2$ -agonists, benzodiazepines or neuroleptics.	$Volume = rac{220 Kg imes 0.5 mg/Kg}{100 mg/mL}$ $Volume = 1.1 mL$	Milk – 0 hours Meat – 0 days	Patients suffering from renal or hepatic insufficiency. 25 ml Withdrawal times. Meat, mist and offat. Zeto hours. Storage conditions.
Combikel	Prevention and treatment of infections caused by penicillin G and/or DHS susceptible microorganisms. The drug also can be used in postoperative prevention of infections.	$Volume = \frac{220 Kg \times 10,000 IU/Kg}{200,000 IU/mL}$ $Volume = 11 mL$	Milk – 4 days Meat – 30days	Hypersensitivity and renal insufficiency in patients Do not use intravenously
5% Flunixin	Control of pyrexia associated with bovine respiratory disease and endotoxemia. Flunixin Meglumine Injection is also indicated for the control of inflammation in endotoxemia.	$Volume = \frac{220 \ Kg \times 1.1 \ mg/Kg}{50 \ mg/mL}$ $Volume = 4.84 \ mL$	Milk – 72 hours Meat – 4 days	Hypersensitivity. Patients suffering from renal or hepatic insufficiency, cardiovascular impairment, gastro-intestinal ulceration and/or platelet disorders. It is also contraindicated in dehydrated animals.
2% Lidocaine		10 cc in total is to be used, 5 cc per testicle. 2 cc injected into the spermatic cord and 3 cc subcutaneously per testicle.	Milk – 24 hours	Patients with a known history of
2% Lidocaine Toxic Dose	For local anaesthesia	NB: $\frac{1}{2}$ Toxic Dose was used $Volume = \frac{220 \ Kg \times 5 \ mg/Kg}{20 \ mg/mL}$ $Volume = 55 \ mL$ $\therefore Do \ NOT \ exceed \ 55 \ mLs \ of \ Lidocaine$	Meat – 24 hours	hypersensitivity to local anesthetics of the amide type

NB: ½ the dose of 2% Xylazine and 10% Ketamine was given intramuscularly 1½ hours into the procedure followed by another ½ dose of 2% Xylazine injected intravenously 2½ hours into the procedure.

EMERGENCY DRUGS

DRUGS	INDICATIONS	CALCULATIONS	WITHDRAWAL TIMES	CONTRAINDICATIONS
Tolazonine	Xylazine reversing agent and antagonist.	$Volume = \frac{220 Kg \times 0.1 mg/Kg}{100 mg/mL}$ $Volume = 0.22 mL$	Milk – 48 hours Meat – 8 days	Avoid giving overdoses of this drug, especially to animals with cardiac or circulatory compromise
Atropine	 Used to reduce salivary and bronchial secretions prior to anaesthesia before surgery. Used in the prevention of abnormal heart rhythms and low blood pressure caused by acetylcholine associated events. Atropine Injection BP can also be used in the management of acute myocardial infarction. Used in the management of cholinergic poisoning by organophosphates or anticholinesterases with muscarinic effects. 	$Volume = \frac{220 Kg \times 0.04 mg/Kg}{0.54 mg/mL}$ $Volume = 16.3 mL$	Milk – 3 days Meat – 14 days	Patients hypersensitivity to anticholinergic drugs, GI obstructive disease, paralytic ileus, severe ulcerative colitis, obstructive uropathy, and myasthenia gravis.
Epinephrine	Emergency treatment of allergic reactions (Type I), including anaphylaxis. Bronchospasm. Urticaria. Angioedema. Serum sickness.	$Volume = \frac{220 Kg \times 0.02 mg/Kg}{1 mg/mL}$ $Volume = 4.4 mL$	Milk – 0 hours Meat – 0 days	Allergy or hypersensitivity to adrenaline. Pregnant or patients in labor. Patients with ventricular premature beats or other types of heart irregularities

NB: The 3 emergency drugs listed were not used during this procedure.

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