DRUGS	INDICATIONS	CALCULATIONS	WITHDRAWAL TIMES	CONTRAINDICATIONS
2% Xylazine	Dose-dependent sedation and analgesia. Premedication for surgery.	$Volume = \frac{450Kg \times 0.05 mg/Kg}{20 mg/mL}$ $Volume = 1.13 mLs$	Milk – 0 hours Meat – 0 days	Hypersensitivity 25 mi Whotevard limits Most on a solid! Nin hours.
10% Ketamine	For induction of anaesthesia in combination with $\alpha 2$ -agonists, benzodiazepines or neuroleptics.	$Volume = \frac{450 Kg \times 0.5 mg/Kg}{100 mg/mL}$ $Volume = 2.25 mLs$	Milk – 0 hours Meat – 0 days	Patients suffering from renal or hepatic insufficiency. 25 m Withdrawal times Meat, mix and offal Zero 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.	$Volume = \frac{450 Kg \times 10,000 IU/Kg}{200,000 IU/mL}$ $Volume = 22.5 mLs$	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.	$Volume = \frac{450 Kg \times 1.1 mg/Kg}{50 mg/mL}$ $Volume = 9.9 mLs$	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		20 cc per teat.		
2% Lidocaine Toxic Dose	For local anaesthesia	NB: $\frac{1}{2}$ Toxic Dose was used $Volume = \frac{450 \ Kg \times 5 \ mg/Kg}{20 \ mg/mL}$ $Volume = 112.5mLs$ $\therefore Do \ NOT \ exceed \ 137.5 \ mLs \ of \ Lidocaine$	Milk – 24 hours Meat – 24 hours	Patients with a known history of hypersensitivity to local anesthetics of the amide type
10% Ivermectin	Effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice, mange mites and prevention of myasis	$Volume = \frac{450 Kg \times 0.2 mg/Kg}{100 mg/mL}$ $Volume = 0.9 mLs$	Milk – n/a Meat – 35 days	This product is not for intravenous or intramuscular use.

EMERGENCY DRUGS

DRUGS	INDICATIONS	CALCULATIONS WITHDRAWAL TIME	S CONTRAINDICATIONS
Tolazonine	Xylazine reversing agent and antagonist. Dose is 2X the Xylazine dose	$Volume = \frac{450 Kg \times 0.1 mg/Kg}{100 mg/mL}$ $Volume = 0.45 mLs$ 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. 	$Volume = \frac{450 Kg \times 0.04 mg/Kg}{0.54 mg/mL}$ $Volume = 33.3 mLs$ $Milk - 3 days$ $Meat - 14 days$	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.	$Volume = \frac{450 Kg \times 0.02 mg/Kg}{1 mg/mL}$ $Volume = 9 mLs$ $Milk - 0 \text{ hours}$ $Meat - 0 \text{ days}$	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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