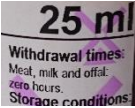


DRUGS	INDICATIONS	CALCULATIONS	WITHDRAWAL TIMES	CONTRAINDICATIONS
2% Xylazine	Dose-dependent sedation and analgesia. Premedication for surgery.	$Volume = \frac{550Kg \times 0.05 \text{ mg/Kg}}{20 \text{ mg/mL}}$ $Volume = 1.38 \text{ mLs}$	Milk – 0 hours Meat – 0 days	Hypersensitivity 
10% Ketamine	For induction of anaesthesia in combination with α2-agonists, benzodiazepines or neuroleptics.	$Volume = \frac{550 \text{ Kg} \times 0.5 \text{ mg/Kg}}{100 \text{ mg/mL}}$ $Volume = 2.75 \text{ mLs}$	Milk – 0 hours Meat – 0 days	Patients suffering from renal or hepatic insufficiency. 
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.	$Volume = \frac{550 \text{ Kg} \times 20,000 \text{ IU/Kg}}{200,000 \text{ IU/mL}}$ $Volume = 55 \text{ mLs}$	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.	$Volume = \frac{550 \text{ Kg} \times 1.1 \text{ mg/Kg}}{50 \text{ mg/mL}}$ $Volume = 12.1 \text{ mLs}$	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	For local anaesthesia	5 cc 10 cc per site.	Milk – 24 hours Meat – 24 hours	Patients with a known history of hypersensitivity to local anesthetics of the amide type
2% Lidocaine Toxic Dose		NB: ½ Toxic Dose was used $Volume = \frac{550 \text{ Kg} \times 5 \text{ mg/Kg}}{20 \text{ mg/mL}}$ $Volume = 137.5 \text{ mLs}$ ∴ Do NOT exceed 137.5 mLs of Lidocaine		
10% Ivermectin	Effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice, mange mites and prevention of myiasis	$Volume = \frac{550 \text{ Kg} \times 0.2 \text{ mg/Kg}}{100 \text{ mg/mL}}$ $Volume = 11 \text{ mLs}$	Milk – n/a Meat – 35 days	This product is not for intravenous or intramuscular use.

EMERGENCY DRUGS				
DRUGS	INDICATIONS	CALCULATIONS	WITHDRAWAL TIMES	CONTRAINDICATIONS
Tolazonine	Xylazine reversing agent and antagonist.	$Volume = \frac{550\text{ Kg} \times 0.1\text{ mg/Kg}}{100\text{ mg/mL}}$ $Volume = 0.55\text{ mLs}$	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.	$Volume = \frac{550\text{ Kg} \times 0.04\text{ mg/Kg}}{0.54\text{ mg/mL}}$ $Volume = 40.74\text{ mLs}$	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.	$Volume = \frac{550\text{ Kg} \times 0.02\text{ mg/Kg}}{1\text{ mg/mL}}$ $Volume = 11\text{ mLs}$	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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