**Drugs List**

Drug volume (ml) = $\frac{weight (kg) x dose (mg/kg)}{concentration (mg/ml)}$

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| **Name**  | **Class** | **Dose**  | **Concentration**  | **Withdrawal Period**  | **Indication**  |
| **Flunixin meglumine**  | NSAID | 2.2 mg/kg (IV) | 50 mg/mL  | Meat - 5 to 14 days Milk - 12 to 48 hours  | Inflammation and pain  |
| **Ketoprofen**  | NSAID and analgesic  | 3 mg/kg (IM) | 0.4–6 μg/mL | Meat: IM - 4 days IV - 1 day Milk: 0 hours  | Inflammation, pain and pyrexia  |
| **Xylazine 2%** | Alpha-2 agonist  | Light sedation: 0.05 - 0.1 mg/kg (IM)Deep sedation: 0.2 - 0.3 mg/kg (IM) or 0.1 mg/kg (IV) | 20 mg/mL | Meat: 1 day Milk: 0 days  | Mild to moderate sedation  |
| **Ketamine 10%** | Dissociative general anaesthetic  | 0.5 mg/kg  | 100 mg/mL | Meat: 3 days Milk: 2 days  | Anaesthetic and analgesic agent  |
| **Lidocaine**  | Local anaesthetic | 5-6 mg/kgToxic dose - 8 mg/kg  | 20 mg/mL | Meat: 28 days Milk: 15 days  | Epidural Field block (with epinephrine).Perineural anesthesia (with epinephrine).Arrhythmias.Intravenous regional anesthesia (IVRA) IVRA.Surface anesthesia. |
| **Penstrep-400 LA**  | Antibiotic agent  | 20,000 IU/kg or 500 mg/kg  | 200,000 IU/ml | Meat: 21 days Milk: 3 days  | To treat infections caused by penicillin and dihydrostreptomycin sensitive microorganisms |
| **Ivermectin 1%** | Endectocides- macrolytic lactones  | 0.2 mg/kg  | 10 mg/ml | Meat: 21 days  | Effective treatment and control of harmful species of gastrointestinal roundworms, lungworms, grubs, sucking lice and mange mites in cattle |
| **Tetanus antitoxin (for Sheep and Goats)**  | Vaccine  | 5 ml/animal  | 3,000 - 15,000 IU/ml | 0 days  | Prophylactic use to reduce the risk of tetanus infection asa result of accidental injury or as a preoperative precaution |
| **Emergency Drugs**  |
| **Tolazoline**  | Sedative antagonist and alpha-adrenoreceptor blocking agent  |  0.2 mg/kg (IV)  | 100 mg/mL | Meat: 8 days Milk: 48 hours  | Reversal of xylazine sedation and analgesia. |
| **Atropine**  | Parasympatholytic agent | 0.04 mg/kg (IV)  | 15 mg/mL | Meat: 3-6 days Milk: 14-28 days  | Prevention or correction of bradycardia and bradyarrhythmia |
| **Epinephrine**  | Adrenoceptor stimulant (sympathomimetic). | 0.02 mg/kg (IV) | 1 mg/mL | N/A | Anaphylaxis and cardiac arrest  |
| **Lactated ringers solution**  | Isotonic crystalloid  | 600 - 2000 mL depending on size and condition | Sodium chloride: 8.60 g/lPotassium chloride: 0.30 g/lCalcium chloride dihydrate: 0.33 g/l | N/A | To replenish fluids and electrolytes in the treatment of dehydration and electrolyte depletion |
| **Saline solution**  | Isotonic crystalloid  | Depending on size and condition | 0.9% | N/A | Replacement therapy of sodium, chloride and water which may become depleted in many diseases |
| **Dextrose solution**  | Isotonic crystalloid  | Mature cattle- 100 - 500 mL | 50% | N/A | Treatment of acetonemia (ketosis) in cattle |