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| **Drug** | **Active Ingredient** | **Uses** | **Contraindications** | **Adverse**  **Effects** | **WDT** | **Conc & Dose** |
| **Xylazine** | Xylazine Hydrochloride | Used for sedation, muscle relaxation and analgesia  -allows for standing sedation  Indications : Shot term sedation | This drug should not be used in:  - animals with cardiac and respiratory distress.  -animals with renal or hepatic  - cows in the last trimester of pregnancy  When given the animal should remain in sternal recumbency to avoid bloat. | Ruminal Tympany  Hypersalivation  Hypothermia  Regurgitation | Meat:  5 days  Milk:  72 hours | Conc 20mg/ml  Dose : 0.05mg/kg |
| **Banamine** | Flunixin Meglumine | This is an NSAID that for is used for the treatment of fever and inflammation associated with bovine respiratory disease and acute mastitis | Should not used in cows with:\  Hypersensitivity reactions.  IM route should only be used when IV route is not available since using IM can cause tissue reactions/ irritations. | Can cause:  -anaphylactic reaction gastrointestinal irritation  - ulceration - vomiting. | Meat – 4-10 days  Milk – 12-48 hours | Conc : 50mg/ml  Dose: 1.1 mg/ml (24hours) |
| **Lidocaine** | Lidocaine Hydrochloride | This drug :  -Can block the conduction of nerve fibres resulting in muscle paralysis and loss of sensation  - used for topical, infiltration, intravenous, regional and conduction anesthesia.  - used in extradural and spinal injections | If it is being used in conjunction with Epinephrine,  Do not use in:  -Intra-articular administration  -Epidural administration  - Intradigital administration  -Intravenous administration | Overdose  -Convulsions followed by CNS depression | Meat - 28days  Milk - 15days | Conc: 20mg/ml  Dose: 1.0mg/ml  Toxic Dose  10mg/kg |
| **Pen-Strep** | Penicillin Streptomycin | This is an antibiotic that combats gram positive and gram negative bacteria | In animals with shock, septicemia, the absorption of the antibiotic can be diminished therefore it should not be used on these animals. | Hypersensitivity and CNS effects | Meat – 30 days  Milk –  10 days | Conc:  200 000 IU/ml  Dose: 20 000 IU/kg |
| **Tolazoline** | Tolazoline Hydrochloride | This drug is a sedative antagonist, it is an Alpha-adrenoceptor blocking drug, it reverses the effects of xylazine. | Do not use in animals showing signs of stress, Debilitation, cardiac disease, hypovolemia or shock | Causes gastrointestinal disturbances, tachycardia and mild hypertension | Meat- 8 days  Milk – 24 hours | Concentration : 100mg/ml  Dose: 0.05mg/kg |
| **Atropine** | Atropine Sulfate | This drug can act as a pre-anaesthetic to either reduce or prevent secretions from the respiratory tract. (Treat the effects of Xylazine)  Also treats sinus bradycardia | DO NOT USE: in patients with glaucoma, myocardia ischemia, has a hypersensitivity to anticholinergic drugs, severe ulcerative colitis, obstructive uropathy | Adverse effects include:  -dry mouth  -dysphagia  -constipation  -urinary retention  -drowsiness  -ataxia  -respiratory depression  -seizures | Meat - 14 days  Milk - None | Concentration - 0.54mg/ml  Dose: 0.04mg/kg |
| **Epinephrine** |  | Treat anaphylactic reactions | Hypersensitivity to epinephrine, narrow closed glaucoma, during general anesthesia with halothane | Anxiety, tremor, excitability, arrythmias, vomiting |  | Dose: 0.02mg/kg  Concentration: 1 mg/ml |
| **Tetanus Antitoxin** |  | Reduced risk of tetany in small ruminants | Hypersensitivity |  | Meat- 24 hours  Milk- 24 hours | Dose:  5 mls ( 1 single dose)  Conc:  1500UI/5mls |