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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 sedationIndications : 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 pregnancyWhen given the animal should remain in sternal recumbency to avoid bloat.  | Ruminal TympanyHypersalivationHypothermiaRegurgitation | Meat:5 daysMilk: 72 hours | Conc 20mg/mlDose : 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/mlDose: 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 - 28daysMilk - 15days | Conc: 20mg/mlDose: 1.0mg/mlToxic Dose10mg/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 daysMilk – 24 hours | Concentration : 100mg/mlDose: 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/mlDose: 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/kgConcentration: 1 mg/ml |
| **Tetanus Antitoxin** |  | Reduced risk of tetany in small ruminants | Hypersensitivity |  | Meat- 24 hoursMilk- 24 hours | Dose:5 mls ( 1 single dose) Conc:1500UI/5mls |