**WEIGHT OF BULL CALF: 250 Kg**

**To calculate volume of drug (dose x weight)/concentration of drug**

**Ketamine Stun**

|  |  |  |  |
| --- | --- | --- | --- |
| Drug | Dose | Concentration | Volume |
| Ketamine (IM) | 0.5mg/kg | 10% | 1.25ml |
| Xylazine (IM) | 0.05mg/kg | 2% | 0.63ml |

**Analgesia**

|  |  |  |  |
| --- | --- | --- | --- |
| Drug | Dose | Concentration | Volume |
| Flunixin (Banamine) (Slow IV injection) | 1.1mg/kg | 5% | 5.5ml |

**Reversal Drugs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Drug | Use | Dose | Concentration | Volume |
| Atropine | To treat xylazine induced bradycardia  | 0.04mg/kg | 5% | 0. 2ml |
| Tolazoline | To reverse xylazine | 2x xylazine dosage (0.1mg/kg) | 1% | 2.5ml |
| Epinephrine | To treat anaphylaxis | 1ml/kg | 5% | 5ml |

**Prophylaxis**

|  |  |  |  |
| --- | --- | --- | --- |
| Drug | Dose | Concentration | Volume |
| Long acting Penicillin Streptomycin (IM) | 10,000 IU/kg | 200,000 IU/ml | 12.5ml |
| Tetanus Antitoxin in goats and sheep |

**Local Anesthetic**

|  |  |  |  |
| --- | --- | --- | --- |
| Drug | ½ Toxic Dose | Concentration | Volume |
| Lidocaine  | 5ml/kg | 2% | 62.5ml |

# Drugs

1. **Penicillin streptomycin**: is a combination of antimicrobials for injections containing procine penicillin and dihydrostreptomycin sulphate and it is used to treat systemic infections in cattle.
2. **Flunixin**: is a potent, non-narcotic, non-steroidal analgesic agent with anti-inflammatory and anti-pyretic activity