**PRE-OPERATIVE DRUGS**

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| Drug Name &Concentration | Dose Rate | Volume | Purpose |
| **PRE-OP DRUGS** |
| Xylazine 2%20 mg/ml | 0.05 mg/kg | (0.05 x 275)/20= 0.68 mls | Xylazine is a sedative containing analgesic properties as well as muscle relaxant effect. |
| Ketamine 10%100 mg/ml | 0.5 mg/kg | (0.5 x 275)/100= 1.38 mls | Ketamine provides anaesthetic giving loss of consciousness. |
| Lidocaine 100 mg/ml | Epidural block 0.2 mg/kgToxic dose:10 mg/kg = 275 mls | 4-5 mls for spermatic cord blockEpidural block (0.2 x 275)/100= 0.55 mls | Lidocaine is the local anaesthetic used for the nerve blocks. |
| Pencillin- Streptomycin200,000 IU | 20, 000 IU | (20,000 x 275)/200,000= 28 mls | Penicillin is effective against gram +ve bacteria while streptomycin is effective against gram-ve bacteria. |
| Flunixin 50mg/ml | 2.20 mg/kg | (2.20 x 275)/50 = 12 mls | Flunixin is a NSAID used for its analgesic properties and aids with inflammation. |
| Ivermectin 10 mg/ml | 0.2 mg/kg | (0.20 x 275)/10= 5.5 mls | Ivermectin is anthelmintic. |
| **EMERGENCY DRUGS** |
| Epinephrine1 mg/ml | 0.20 mg/kg | (0.20 x 275)/1= 55 mls | Alpha/beta adrenergic agonist. |
| Atropine 0.54 mg/ml | 0.04 mg/kg | (0.04 x 275)/0.54= 20 mls | Muscarinic antagonist. |