**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/kg  Toxic dose:  10 mg/kg = 275 mls | 4-5 mls for spermatic cord block  Epidural block  (0.2 x 275)/100  = 0.55 mls | Lidocaine is the local anaesthetic used for the nerve blocks. |
| Pencillin-  Streptomycin  200,000 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** | | | |
| Epinephrine  1 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. |