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| --- | --- | --- | --- | --- | --- | --- |
| **Drug Used** | **Concentration** | **Dosage** | **Volume to be Administered (w\*d/c)** | **Reason for utilizing drug** | **Withdrawal Period of Drug** | **Comments** |
| Xylazine | 20mg/ml or 2% | 0.05mg/kg | 0.25ml IM | To achieve standing sedation | 14 days from meat | Drug is an alpha-2 agonist which causes respiratory depression so care must be taken when administering. |
| Flunixin Meglumine | 50mg/ml or 5% | 1.1mg/kg | 2.20 ml IV | Utilized for its analgesic properties | 4 days from meat |  |
| Lidocaine | 20mg/ml or 2% | 5mg/ml | 25.00 ml. Using the attending’s discretion, this dose was decreased to 16ml. | To achieve local anaesthesia at the site of the procedure. | 24hrs from meat. | The decreased volume of 16ml was split. 4ml was injected intratesticularly, 2mls into the spermatic cord and 2mls around the spermatic cord for each side. |
| Penn strep - Procaine benzylpenicillin + Dihydrostreptomycin sulphate. | 200 000 IU/ml | 20 000 IU/kg | 10ml | Antibiotic drug therapy | 30 days from meat. | Used as a prophylactic to prevent infection after the procedure. |
| Tolazoline | 100mg/ml | 0.1mg/ml | 0.1ml | Reversal agent for alpha-2 agonists |  | In the case a large dose of Alpha-2-Agonist must be used, tolazoline can be used to antagonise the agonist resulting in alleviated respiratory depression. |
| Atropine | 150mg/ml | 6mg/kg | 4ml | Kept on standby if the heart needs assistance in returning to a normal manner of beating. | - | - |
| Epinephrine | 10mg/ml | 0.02mg/kg | 0.2ml | Kept on standby in the occurrence of an anaphylactic reaction. | - | - |

Consider the following sample calculation for finding volume of drug administered for a 100kg animal.  
Using Xylazine @ a concentration of 20mg/ml and dosage of 0.05mg/kg:  
  
Volume of Xylazine Needed = (Weight of the animal \* Dose of Xylazine Needed)

Concentration of Xylazine

Volume of Xylazine Needed = ( 100 kg \* 0.05mg/kg)  
 20mg/ml

Volume of Xylazine Needed = 0.25mls of 20mgml Xylazine.