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| --- | --- | --- | --- | --- | --- | --- |
| **Drug** | **Weight of patient Kgs**  **(adult female jersey cow)** | **Dose Rate (mg/kg)** | **Concentration (mg/ml)** | **Volume mls** | **Indications for use** | **Withdrawal Time** |
| **Lidocaine** (Local anaesthetic) | 400 | 1.0 | 20 | 5 (at each site) | Induce loss of sensation | Meat – 1 day  Milk – 24 hrs |
| **Xylazine** (Sedative/Anaesthetic Induction) | 400 | 0.05 | 20 | 1 | Induction of general loss of consciousness and sensation | Meat – 14 days  Milk - 48 hrs |
| **Xylazine** (Sedative/Anaesthetic Maintenance) | 400 | 1 | Maintenance of general loss of consciousness and sensation |
| **Ketamine** (Sedative/Analgesic Induction) | 400 | 0.5 | 100 | 10 | Induction of general loss of sensation | Meat – 2 days  Milk – 3 days |
| **Ketamine** (Sedative/Analgesic Maintenance) | 400 | 10 | Maintenance of general loss of sensation |
| **Flunixin** (Analgesic Pre-Op) | 400 | 1.1 | 50 | 8.8 | Pre-emptive analgesia | Meat - 4 days |
| **Flunixin** (Analgesic Post-Op Care) | 400 | 2.2 | 50 | 17.6 | Post-op analgesia for 3 days |
| **Penstrep** (Antibiotic) | 400 | 20,000 IU/kg | 200,000 IU/kg | 40 | Antibiotic | 30 days |
| **Ivermectin** (Antiparasitic) | 400 | 0.2 | 10 | 8 | Antiparasitic | 28 days |
| **Epinephrine** | 400 | 0.02 | 1 | 8 | Anaphylactic reactions | No WDT |
| **Atropine** | 400 | 0.04 | 0.54 | 29.6 | If bradycardia, <30 bpm, occurs | Meat - 14 days  Milk – 3 days |
| **Tolazoline** | 400 | 0.1 | 100 | 0.4 | Xylazine reversal | No WDT |