***Drugs for PEGGY***

***LOADING DOSE:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Drugs | Dose/ Concentration | Calculations | Volume per site | Withdrawal Time | Route &Comments |
| Sedative  |  | $$\frac{Weight x Dose}{Concentration}$$ |  |  |  |
| Xylazine | **Recommended Loading dose 2% of 0.05 mg/kg** | **Loading Dose:** $\frac{500 x 0.05}{20}$ **= 1.25 ml** | **Loading Dose:** **1.3 ml** | **4 days for meat****1 day for milk** | **IM****Onset: 10 min****Duration: 45 min** |
| Ketamine  | **Recommended Loading Dose 10% of 0.25 mg/kg** | **Loading Dose:**$ \frac{500 x .25}{100}$ **= 1.25 ml** | **Loading Dose:** **1.25 ml**  | **3 days for meat****3 days for milk** | **IM****Onset: 10 min****Duration: 45 min** |
| Lidocaine- IV Regional Anaesthesia (BLOCK) | **Toxic dose: 2% of 10 mg/kg** | **Toxic Dose**$\frac{500x 10}{20}$ **= 250 ml****Maximum Vol can be administered:**$\frac{500 x 5}{20}$ **= 125 ml****Loading dose:**$\frac{500 x 1}{20}$ **= 25 ml** | **Loading dose:** **25ml** | **5 days for meat** | **IV for loading dose****animal exhibited signs of pain over the incision site.**  |
| NSAID |  |  |  |  |  |
| Flunixin  | **Initial Dose: 5% of 2.2 mg/kg** | **Initial Dose:** $\frac{500 x 2.2}{50}$ **= 22 ml** | **Initial Dose:** **22 ml** | **4 days for meat** | **IV****Onset: Within 2 hours****Duration: 24-36 hours** |
| Antibiotic |  |  |  |  |  |
| Penicillin Streptomycin  | **Initial Dose: 200,000 IU/ml of 20,000 IU/kg** | **Initial Dose:** $ \frac{500 x 20,000 }{200,000}$ **= 50 ml** | **25 ml per site**  | **30 days for meat****10 days for milk** | **IM****Duration: 72 hours** |
| Tetanus Toxin | **1500 IU/ml** | **1 vile = 5ml** | **5ml** |  |  |

***Reversal Drugs:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Drugs | Dose/Concentration | Calculations | Volume | Route & Comments |
| Atropine  | **0.54 mg/ml of 0.04mg/kg** | $\frac{0.04 x 500 }{0.54}$ **= 37.0 ml** | **37 ml** | **IV/IM****Used for Bradycardia** **(less than 38 bpm)** |
| Epinephrine  | **1 % of 0.02 mg/kg** | $\frac{0.02 x 500}{1}$ **= 10 ml** | **10 ml** | **IM****Used for anaphylactic shock****Signs include respiratory depression, excess salivation, urticaria, rhinitis, facial and limb oedema** |
| Tolazoline  | **10 % of Recommended 2-4 times xylazine dose (0.1 mg/kg – 0.2 mg/kg)** | **Lower Limit:**$\frac{0.1 x 500}{100}$ **= 0.5 ml****Upper limit =**$\frac{0.2 × 500}{100 }$ **= 1 ml** | **Lower Limit** **= 0.5 ml** **Upper limit** **= 1 ml** | **IV slowly****Used to reverse xylazine.** **If signs of xylazine toxicity (bradycardia, hypotension and respiratory depression) are seen administer the lower limit, 0.1 ml.****If signs continue after some time add 0.1 ml or less to reach the upper limit. BUT do not cross the upper limit.** |