**TABLE 1: Drugs administered for Calf #293 (80 kg):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Drug** | **Concentration** | **Dose Rate** | **Purpose** | **Toxic Dose** | **Calculations:**  **Body Weight (kg) x Dose / Concentration** | **Dose to be Administered** | **Time of Administration** |
| **Xylazine** | 20 mg/mL | 0.025 mg/kg | Sedative/  Anesthetic Induction | Use 1/10 the dose for Equine for +/- 45 minutes of anesthesia | (80 kg x 0.025 mg/kg) / 20 = 0.1mL  0.1mL – 0.065mL = 0.035 mL | 0.035 mL + 1.9 mL of saline | 14:16 (2:16 pm) |
| **Ketamine** | 100 mg/mL | 0.05 mg/kg | Anesthetic |  | (80 kg x 0.05 mg/kg) / 100 = 0.04 mL | 0.04 mL | 14:16 (2:16 pm) |
| **Penstrep** | 200,000 IU/mL | 20,000 IU/kg | Antibiotic |  | (80 kg x 200,000 IU/mL) / 20, 000 ID/kg = 8 mL | 8 mL | 14:17 (2:17 pm) |
| **Flunixin** | 50 mg/mL | 1.1 mg/kg | Analgesic |  | (80 kg x 1.1mg/kg) / 50 mg/kg = 1.76 mL | 1.76 mL | 14:19 (2:19 pm) |
| **Lidocaine** | 20 mg/mL | 4-5 mLs | Local Anesthetic | The Toxic Dose is 10 mg/kg | (80 kg x 5 mL) / 20 mg/kg = 20 mg/kg  20 mg/kg – 13 mL = 7 mL  7 mL + 6 mL of saline = 13 mL  Therefore 13 mL / 2 = 6.5 mL for each horn/side | 6.5 mL (diluted with saline) for each horn | Right horn – 14:27 (2:17 pm)  Left horn – 14:30 (2:30 pm) |
| **Tolazoline** | 100 mg/mL | 4 times the dose of Xylazine | Xylazine Reversal |  | 0.1 mL x 4 = 0.4 mL | 0.4 mL | Not Done |

**TABLE 2: Drugs administered for Calf #289 (150 kg):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Drug** | **Concentration** | **Dose Rate** | **Purpose** | **Toxic Dose** | **Calculations:**  **Body Weight (kg) x Dose / Concentration** | **Dose to be Administered** | **Time of Administration** |
| **Xylazine** | 20 mg/mL | 0.025 mg/kg | Sedative/  Anesthetic Induction | Use 1/10 the dose for Equine for +/- 45 minutes of anesthesia | (150 kg x 0.025 mg/kg) / 20 = 1.8 mL  1.8 mL – 0.065mL = 0.12 mL | 0.12 mL + 1.9 mL saline | 15:42 (3:42 pm) |
| **Ketamine** | 100 mg/mL | 0.05 mg/kg | Anesthetic |  | (150 kg x 0.05 mg/kg) / 100 = 0.075 mL | 0.075 mL | 15:42 (3:42 pm) |
| **Penstrep** | 200,000 IU/mL | 20,000 IU/kg | Antibiotic |  | (150 kg x 200,000 IU/mL) / 20, 000 ID/kg = 15 mL | 15 mL | 15:44 (3:44 pm) |
| **Flunixin** | 50 mg/mL | 1.1 mg/kg | Analgesic |  | (150 kg x 1.1mg/kg) / 50 mg/kg = 3.3 mL | 3.3 mL | 15:47 (3:47 pm) |
| **Lidocaine** | 20 mg/mL | 4-5 mLs | Local Anesthetic | The Toxic Dose is 10 mg/kg | (150 kg x 5 mL) / 20 mg/kg = 37.5 mg/kg  37.5 mg/kg – 13 mL = 24.5 mL  24.5 mL + 6 mL of saline = 30.5 mL  Therefore 30.5 mL / 2 = 15.25 mL for each horn/side | 15.25 mL (diluted with saline) for each horn | 15:50 (3:50 pm) |
| **Lidocaine**  **(Epidural)** | 20 mg/mL | 0.2 mg/kg | Anesthetic | The Toxic Dose is 10 mg/kg | (150 kg x 0.2 mg/kg) / 20 mg/kg = 1.5 mL | 1.5 mL + 1.75 mL saline | 15:55 (3:55 pm) |
| **Tolazoline** | 100 mg/mL | 4 times the dose of Xylazine | Xylazine Reversal |  | 0.2 mL x 4 = 0.8 mL | 0.8 mL | Not Done |

Additional Drugs to be used in case of Complications:

* Atropine – at a Concentration of 0.54 mg/mL and Dose Rate of 0.04 mg/kg
* Epinephrine – at a Concentration of 1 mg/mL and Dose Rate of 0.2 mg/kg