|  |
| --- |
| **Calculated drugs for bull # 281****Body weight:- 175Kg** |
| **Drug** | **Purpose**  | **Conc.****(mg/mL)** | **Dose rate (mg/Kg)** | **Toxic dose** **(mg/mL)** | **Withdrawal** **time** **(days)**  | **Calculations: (body weight (Kg) x dose (mg/mL)) / concentration** | **Dose to be administered (mL)** | **Inj. site** | **Time of admin.** | **Side effects**  |
| Xylazine  | Sedative | 20 | 0.05 | 0.9 | Meat: 5Milk: 4 | (175 x 0.05) / 20 = 0.4375 | 0.44 | IM | 4:13pm | Bradycardia, hypotension and vomiting. |
| Ketamine | Anesthetic  | 100 | 1 | n/a  | Meat, milk, offal: 0 hrs | (175 x 1) / 100 =1.75 | 1.75 | IM | 4:13pm  |  |
| Penstrip  | Antibiotic  | 200,000 IU/mL | 20,000 IU/Kg | n/a  | Meat: 30Milk: 10 | (175 x 20,000) / 200,000 = 17.5  | 17.5 | IM | 4:32pm  | Allergic reactions |
| Flunixin  | Analgesic  | 50 | 1.1 | 6.6 | Meat: 4Milk: 1.5 | (175 x 1.1 ) / 50 = 3.85  | 3.85 | IV | 4:36pm  | gastrointestinal and renal toxicity |
| Lidocaine | Local anesthetic  | 20 | 2 | 10mg/Kg | Meat and milk: 1.5 | (175 x 2) / 20 =17.5 | 18 | Left +right spermatic cords + testes. (4.5ml at each site) |  |  |
| Tolazoline | Xylazine reversal | 100 | 2 x xylazin (0.05) = 0.1 | n/a  | n/a  | n/a  | 0.1 | IV | Not given.  | tachycardia; peripheral vasodilatation |
| Epinephrine  | Anaphylaxis  | 1  | 0.02 | n/a | Meat: 1Milk: 1 | (175 x 0.02) / 1 =  | 3.5 | IM/IV | Not used  |  |
| Atropine  | Sinus Bradycardia prevention | 15 | Calves: 1.5-3mg/50kg | n/a | Meat: 14 Milk: 3 | (175 x 1.5) / 50 =5.25 | 5.25 | IV | Not used  |  |

**XyKet stun top up doses given at 4:30pm and 4:52pm via IV:**

Xylazine: ½ x 0.44mL = 0.22mL

Ketamine: ½ x 1.75mL = 0.875mL = 0.9mL

|  |
| --- |
| **Calculated drugs for bull # 274****Body weight:- 160Kg** |
| **Drug** | **Purpose**  | **Conc.****(mg/mL)** | **Dose rate (mg/Kg)** | **Toxic dose** **(mg/mL)** | **Withdrawal** **time** **(days)**  | **Calculations: (body weight (Kg) x dose (mg/mL)) / concentration** | **Dose to be administered (mL)** | **Inj. site** | **Time of admin.** | **Side effects**  |
| Xylazine  | Sedative | 20 | 0.05 | 0.9 | Meat: 5Milk: 4 | (160 x 0.05) / 20 = 0.4 | 0.4 | IM | 2:10pm  | Bradycardia, hypotension and vomiting. |
| Ketamine | Anesthetic  | 100 | 1 | n/a  | Meat, milk, offal: 0 hrs | (160 x 1) / 100 =1.6 | 1.6 | IM | 2:10pm  |  |
| Penstrip  | Antibiotic  | 200,000 IU/mL | 20,000 IU/Kg | n/a  | Meat: 30Milk: 10 | (160 x 20,000) / 200,000 = 16  | 16 | IM | 2:31pm  | Allergic reactions |
| Flunixin  | Analgesic  | 50 | 1.1 | 6.6 | Meat: 4Milk: 1.5 | (160 x 1.1 ) / 50 = 3.53  | 3.5 | IV | 2:42pm  | gastrointestinal and renal toxicity |
| Lidocaine | Local anesthetic  | 20 | 2 | 10mg/Kg | Meat and milk: 1.5 | (160 x 2) / 20 =16 | 16 | Left +right spermatic cords + testes. (4.ml at each site) | 3:07pm |  |
| Tolazoline | Xylazine reversal | 100 | 2 x xylazin (0.05) = 0.1 | n/a  | n/a  | n/a  | 0.1 | IV | Not given.  | tachycardia; peripheral vasodilatation |
| Epinephrine  | Anaphylaxis  | 1  | 0.02 | n/a | Meat: 1Milk: 1 | (160 x 0.02) / 1 =  | 3.2 | IM/IV | Not used  |  |
| Atropine  | Sinus Bradycardia prevention | 15 | Calves: 1.5-3mg/50kg | n/a | Meat: 14 Milk: 3 | (160 x 1.5) / 50 =4.8 | 4.8 | IV | Not used  |  |

**XyKet stun top up doses given at 2:30pm (IM), 2:55pm (IV), 3:22pm (IV) and 3:45pm (IV):**

Xylazine: ½ x 0.4mL = 0.2mL

Ketamine: ½ x 1.6mL = 0.8mL

N.B 9ml of lidocaine was incidentally given IV. Side effect- arrhythmias