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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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: 5  Milk: 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: 30  Milk: 10 | (175 x 20,000) / 200,000 = 17.5 | 17.5 | IM | 4:32pm | Allergic reactions |
| Flunixin | Analgesic | 50 | 1.1 | 6.6 | Meat: 4  Milk: 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: 1  Milk: 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

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| **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: 5  Milk: 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: 30  Milk: 10 | (160 x 20,000) / 200,000 = 16 | 16 | IM | 2:31pm | Allergic reactions |
| Flunixin | Analgesic | 50 | 1.1 | 6.6 | Meat: 4  Milk: 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: 1  Milk: 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