Castration/Vasectomy/Epidural Lab

Drugs to be used:

Formula to be used:

(Weight x Dose)/Concentration  Weight= 120kg

| Drug | Concentration | Dose rate | Calculation | Other |
|---|---|---|---|---|
| Epinephrine | 1 mg/ml | 0.02mg/kg | (120 x 0.02)/ 1= 2.4ml | -Anaphylactic reactions<br><br>-No withdrawal time needed |
| Atropine | 0.54mg/ml | 0.04mg/kg | (120 x 0.04)/ 0.54 = 0.83 ml | -Use if bradycardia (< 30bpm)<br><br>-Withdrawal time<br>14 days -meat<br>3 days-milk |
| Xylazine | 20mg/ml | 0.05 mg/kg | (120 x 0.05)/ 20= 0.3 ml | -Withdrawal time<br>14 days- meat<br>48hrs-milk<br><br>-approx. 45min of anesthesia |
| Tolazoline | 100mg/ml | 2x xylazine dose = 0.05 x2= 0.1 mg/kg | (120 x 0.1)/ 100= 0.12ml | -No withdrawal for food animals<br><br>-xylazine reversal |
| Ketamine | 100mg/ml | 0.5mg/kg | (120 x 0.5)/ 100= 0.6ml | -Withdrawal time<br>3days-meat<br>24hr-milk |
| Antibiotics (Penstrep) | 200,000IU/ml | 20,000 IU/kg | (120 x 20,000)/200000 =12ml | Withdrawal time 30days |
| Flunixin | 50mg/ml | 2.2mg/kg | (120 x 2.2)/50= =5.28 ml | -Preemptive analgesia<br>-used in post op for 3 days |

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|---|---|---|---|---|
| | | | | -NSAID |
| Lidocaine | 20 mg/ml | | 5mls was used for each site | 10mg/kg |
| Lidocaine (Epidural) | 20mg/ml | 0.2 mg/kg | 2ml | 10mg/kg |
| IV fluids 0.9% Saline | Rate of fluid delivery= 5ml/kg/hr Drop factor = 20 drops/ml<br>Weight= 120kg<br>Vol of fluid/hr= 120 x5= 600ml/hr<br>Drops per min= (600 x20)/60= 200 drops<br>Drops per second= 200/60= 3.33/ 3-4 drops | | | |
| Ivermectin | 1% ( 10mg/ml) | 0.2mg/kg | (120 x 0.2)/ 10= 2.4ml | Withdrawal Time<br>-Meat- 35 days |