Patient ID: Holstein

Weight of patient: 150kg

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| Flunixin | * Analgesic agent * Administer IV slowly, rate of 0.5 ml per minute. Be sure to observe the animal to ensure that pain relief is effective.   Min dosage: 1.1 mg/kg  Drug conc: 50mg/mL  1.1 mg/kg x 150kg = 165mg  1ml of Flunixin = 50mg of active content  Therefore, 165mg/ 50mg/ml= 3.3ml |
| Lidocaine | * Analgesic agent * Administer locally to each testicle   Drug Dosage: 5 mg/kg  Drug Conc: 2% solution  2% = 2g/100ml = 0.02 g/ml  1000 x 0.02 = 20mg/ml  5 mg/kg x 150 = 750mg  1ml = 20mg active content  Therefore, 750mg/20mg/ml = 37.5ml  Proximal Paravertebral nerve block, 5-10 ml of Lidocaine used at each site of T13, L1 and L2 respectively. |
| Xylazine | * Sedation * Analgesic agent * Administer IV/IM   Min dosage: 0.05 mg/kg  Drug conc: 20mg/ml  0.05mg/kg x 150kg = 7.5mg  1ml = 20mg active content  7.5/20= .375 ml |
| Ketamine | * Dissociative sedation agent * Administer IV slowly at a rate of 0.5ml/min. Observe every minute to ensure pain relief is effective. * IM stun   Drug dosage: 1 mg/kg  Drug conc: 100 mg/ml  1 mg/kg x 150 = 150mg  1ml = 100mg active content  Therefore, 150mg/100mg/ml = 1.5ml |

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| Tolazoline | * Give IV slowly to reverse xylazine * Dose 2-4 more than the xylazine dose   Drug dose: 1.5 mg/kg  Drug conc: 100 mg/ml  150kg x 1.5mg/kg= 225  225mg/100mg/ml = 2.25ml |
| Yohimbine | * In emergency protocol, 0.125 mg/kg given IV and tolazoline at 2 mg/kg. |
| Atropine | * Used when bradycardia is noticed * Give IV or IM   Drug Dose: 0.04 mg/kg  Drug Conc: 15 mg/ml  150kg x 0.04mg/kg = 6mg  6mg/15mg/ml = 0.4ml |
| Epinephrine | * Use if you notice anaphylactic shock * Give IM.   Drug Dose: 0.02 mg/kg  Drug Conc: 1 mg/ml  150kg x 0.02 mg/kg = 3mg  3mg / 1mg/ml = 3mg |
| Penstrep (antibiotic) | 1ml per 20kg in cattle  Concentration – 200000 IU  150kg/20kg= 7.5ml |
| Ivermectin (antiparasitic) | Dosage: 0.2mg/kg SC  Concentration: 10mg/ml  0.2 \* 150/10= 3ml |