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/kgDrug conc: 50mg/mL1.1 mg/kg x 150kg = 165mg1ml of Flunixin = 50mg of active contentTherefore, 165mg/ 50mg/ml= 3.3ml |
| Lidocaine | * Analgesic agent
* Administer locally to each testicle

Drug Dosage: 5 mg/kgDrug Conc: 2% solution2% = 2g/100ml = 0.02 g/ml1000 x 0.02 = 20mg/ml5 mg/kg x 150 = 750mg1ml = 20mg active contentTherefore, 750mg/20mg/ml = 37.5mlProximal 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/kgDrug conc: 20mg/ml0.05mg/kg x 150kg = 7.5mg1ml = 20mg active content7.5/20= .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/kgDrug conc: 100 mg/ml1 mg/kg x 150 = 150mg1ml = 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/kgDrug conc: 100 mg/ml150kg x 1.5mg/kg= 225225mg/100mg/ml = 2.25ml |
| Yohimbine | * In emergency protocol, 0.125 mg/kg given IV and tolazoline at 2 mg/kg.
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| Atropine | * Used when bradycardia is noticed
* Give IV or IM

Drug Dose: 0.04 mg/kgDrug Conc: 15 mg/ml150kg x 0.04mg/kg = 6mg6mg/15mg/ml = 0.4ml |
| Epinephrine  | * Use if you notice anaphylactic shock
* Give IM.

Drug Dose: 0.02 mg/kgDrug Conc: 1 mg/ml150kg x 0.02 mg/kg = 3mg3mg / 1mg/ml = 3mg |
| Penstrep (antibiotic) | 1ml per 20kg in cattle Concentration – 200000 IU150kg/20kg= 7.5ml |
| Ivermectin (antiparasitic) | Dosage: 0.2mg/kg SCConcentration: 10mg/ml 0.2 \* 150/10= 3ml |