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|  | Drug | Concentratio n | Dosage-330lb/ 150kg cattle | Contraindications | Withdrawal time |
| Local Anesthetic | Lidocaine HCl | 20mg/ml | Caudal Epidural Nerve block given @  lidocaine  -dosage -0.2mg/kg, conc-2%(20mg/ml), weight 150kg  WT X Dosage/ conc  = 1.5ml  Spermatic Cord Nerve block, lidocaine  -dosage -1mg/kg, conc-2%(20mg/ml), weight 150kg  WT X Dosage/ conc  = 7.5ml | Lidocaine HCl is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type. | Meat: 28 days |
|  |  |  | -It is suitable for performing surgery on standing animals, accordingly injuries associating casting and prolonged  recumbency can be avoided |  |  |
| Sedative | Xylazine | 20 mg/ml |  | Should not be used in   * Renal or hepatic failure | Withdrawal |
|  |  |  | xylazine(IM) given @ 2:31pm and at a second time @ 3:47pm | period: |
|  |  |  | Dosage-0.5mg|Kg, | Meat: 5 days |
|  |  |  | conc-20mg/ml | For milk: 4 |
|  |  |  | Weight-150kg | days |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  | WT \* Dosage/conc = 4ml |  |
|  |  |  |  |  |
| Analgesic/ NSAIDs | Banamine (Flunixin meglumin e) | 50mg/ml | Flunixin(IV) - Dosge - 1.1mg/kg ,conc- 50mg/ml  , Weight-150kg  WT X Dosage/conc= 3.3ml | Should not be used   * in animals that have shown prior hypersensitivity reactions. * the IM route; should only be used when the IV route is not feasible   + Do not use in horses | Withdrawal times:  - For meat: Cattle: 14 days  Swine: 24 days For milk- Cattle:  2 days |

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| Antibiotic (Narrow | Penstrep 400 | 20,000  IU/ml | penstrep(IM)  dosage-20,000IU, conc  -20,000IU,weight- 150kg  WT X Dosage/conc= 15ml  NB: more than 5ml should not be administered at a singular site in calves. | Should not be used in   * Animals hypersensitive to penicillins, procaine and/or aminoglycosides * Animals with impaired renal function * Concurrent administration of tetracyclines chloramphenicol, macrolides and lincosamides. | Withdrawal times:  -For kidneys: 45 days.   * For   meat-21-30day s   * For milk 5 days. |
| spectrum) | (Procaine |  |
| long acting | penicillin |  |
| antipsychoti | & |  |
| c | Dihydrost |  |
|  | reptomyci |  |
|  | n) |  |
| General anesthetic | Ketamine | 100mg/ml | ketamine(IM) given @2:31pm  dose=0.5mg/kg Weight=150kg Conc=100mg/ml (0.5mg/kg)(150kg)/100m g/ml  =1ml | Should not be administered with lungworm medication. For parenteral administration in dogs, cats, horses, cattle, goals and swine | withdrawal period:  Meat: 16 days Otherwise: 0days |