

	Drug	Concentration	Dosage-880lb/ 400kg cattle	Contraindications	Withdrawal time
Local Anesthetic	Lidocaine HCl	20mg/ml	<p>For field blocking: maximum 200ml of lidocaine 2%</p> <p>Nerve block, lidocaine -dosage -1mg/kg, conc-2%(20mg/ml), weight 400kg $\text{Volume} = \frac{\text{WT} \times \text{Dosage}}{\text{conc}} = 20 \text{ ml}$ TOXIC DOSE-200ml</p> <p>-It is suitable for performing surgery on standing animals, accordingly injuries associating casting and prolonged recumbency can be avoided</p>	Lidocaine HCl is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type.	Meat: 28 days
Sedative	Xylazine	20 mg/ml	<p>xylazine(IM)- Dosage-.025mg Kg, conc-20mg/ml Weight-400kg $\text{Volume} = \frac{\text{Dose}}{\text{WT} * \text{Dosage}/\text{conc}} = 0.5 \text{ ml}$</p>	<p>Should not be used in</p> <ul style="list-style-type: none"> Renal or hepatic failure 	<p>Withdrawal period: Meat: 5 days For milk: 4 days</p>
Analgesic/ NSAIDs	Banamine (Flunixin meglumine)	50mg/ml	<p>Flunixin(IV) - Dosage - 1.1mg/kg ,conc- 50mg/ml , Weight-400kg $\text{Volume} = \frac{\text{WT} \times \text{Dosage}}{\text{conc}} = 8.8 \text{ ml}$</p>	<p>Should not be used</p> <ul style="list-style-type: none"> in animals that have shown prior hypersensitivity reactions. the IM route; should only be used when the IV route is not feasible <ul style="list-style-type: none"> Do not use in horses 	<p>Withdrawal times: - For meat: Cattle: 14 days Swine: 24 days For milk- Cattle: 2 days</p>

Antibiotic (Narrow spectrum) long acting antipsychotic	Penstrep 400 (Procaine penicillin & Dihydrostreptomycin)	200,000 IU/ml	penstrep(IM)-dosage-20,000mg/kg, conc -20,000mg/ml, weight 400kg Volume = WT X Dosage/conc= 40 ml NB: more than 5ml should not be administered at a singular site in calves. 20ml was given per site in gluteal muscle.	Should not be used in <ul style="list-style-type: none"> 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-21-30days - For milk 5 days.
General anesthetic	Ketamine	100mg/ml	ketamine(IM)-dose=0.5mg/kg Weight=400kg Conc=100mg/ml (0.5mg/kg)(400kg)/100mg/ml =2ml	Should not be administered with lungworm medication. For parenteral administration in dogs, cats, horses, cattle, goats and swine	withdrawal period: Meat: 16 days Otherwise: 0days