

## Drugs and Calculations

Assuming Calf is 200 kg

Drug class	Drug name	Recommended dosage and route	Volume of drug to be used
Local anesthesia	2% Lidocaine HCl	Dosage: 5mg/kg Conc: 20mg/ml	For Proximal Paravertebral nerve block, 5-10 ml of Lidocaine used at each site of T13, L1 and L2 respectively.
Analgesia	Flunixin Megalumine	1.1mg/kg IV or IM once daily up to 5 days Conc: 50mg/ml	4.4 ml
Sedative	Xylazine HCl + Ketamine	Dose: 0.05 mg/kg IM Conc: 20mg/ml Dose: 1 mg/ kg IM Conc: 100 mg/ml	0.5 ml 2 ml
Prophylactic drug	Tetanus toxoid and antitoxin	1mL IM	
Antibiotic	Penstrep	Dose: 1ml per 20 kg in cattle Conc: 200000 IU	10 ml
Emergency drug	Yohimbine  Tolazine	0.05-0.2 mg/kg Administered IM or slowly IV Conc: 10mg/ml Dose: 0.2 mg/kg IV Slowly Conc: 100 mg/ml	1 ml -4 ml 0.4 ml

Emergency drug	Atropine	Conc: 15 mg/ml	0.7 ml
Anaphylactic	Epinephrine	Dose: 0.02 mg/kg IM Conc: 10 mg/ml	0.4 ml
Antiparasitic	Ivermectin	Dosage: 0.2 mg/kg SC Conc: 10mg/ml	4 ml

$$\text{Volume of drug used} = \text{Dose} \left( \frac{\text{mg}}{\text{kg}} \right) \times \text{Weight}(\text{kg}) \div \text{Concentration} \left( \frac{\text{mg}}{\text{ml}} \right)$$