**DRUG TABLE FOR LARGE ANIMAL SURGERY**

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| **Drug** | **Use** | **Concentration (mg/ml)** | **Dose (mg/kg)** | **Toxic dose** | **Injection site** | **Calculation****(dose (mg/kg) x weight (kg))****÷ conc. (mg/ml)** | **Withdrawal Time** |
| Xylazine | Sedative | 20mg/ml | 0.05mg/kg | - | IM | (0.05mg/kg x 45 kg) ÷ 20mg/ml = 0.12 mls | Slaughter: 5 days Milk – 4 days  |
| Ketamine | Sedative  | 100mg/ml | 0.1 mg/kg | - | IM/IV | (0.1 mg/kg x 45 kg) ÷ 100mg/ml =0.045 ml | Slaughter- 3 daysMilk- 48 hours |
| Lidocaine | Local anaesthetic | 20mg/ml  | 5 mg/kg | 10mg/kg | IM | (5 mg/kg x 45kg) ÷ 20mg/ml = 11.3ml | Slaughter – 5 daysMilk – 96 hours |
| Flunixin meglumine | Analgesia | 50mg/ml | 1.1mg/kg | - | IV | (1.1mg/kg x 45kg) ÷ 50mg/ml = 1.0mls | Slaughter 7 daysMilk- 36 hours |
| Pen Strep | Antibiotic | 200,000UI/mL | 20,000UI/Kg | - | SC IM | (20,000UI/kg x 45kg)÷ 200,000UI/mL = 4.5 mls | Slaughter- 30 days Milk- 10 days |
| Tetanus Antitoxin | Reduce risk of tetany in small ruminants | 1500UI/5ml | 1 single dose (5mls) | - | SQ | 1 dose | Slaughter- 21 days |

**Sheep/Goat weight estimated to be 45 kgs**

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| EMERGENCY DRUGS |
| **Drug** | **Indication** | **Concentration** | **Dose (mg/kg)** | **Route of Administration** | **Calculations****(dose (mg/kg) x weight (kg)÷ conc. (mg/ml)** |
| Tolazoline | Xylazine reversal drug | 100 mg/ml | 0.1mg/kg | IV | 2-4 times the Xylazine dose(0.1 mg/kg x 45kg) ÷ 100mg/ml = 0.045mls |
| Epinephrine  | Anaphylaxis | 1mg/ml | 0.02 mg/kg | IV | (0.02 mg/kg x 45 kg) ÷ 1mg/ml = 1.0mls |
| Atropine  | Bradycardia  | 1% or 10mg/ml | 0.2mg/ml | IMSC | (0.2mg/kg x 45kg) ÷ 10mg/ml = 1.0mls |

**In cases of General Anesthesia, Constant rate Infusion can be used.**



**For the sheep/goat 45kgs**

**(45kg x 5ml/kg/hr x 20 drops/ml) = 1.25 drops/second**

 **60 (min/hr) x 60 (sec/min)**