**Drug Calculations for Practical Anaesthesia Lab**

**Weight of sheep =40kg**

**Formula: Volume= Dose (mg/kg) x Weight(kg) / Concentration (ml)**

**XYLAZINE (Sedative/ Anaesthetic Induction)**

Conc= 20mg/ml

Dose rate =0.025mg/kg

V = (0.025 x 40)/20 = 0.05mls

**Flunixin (Analgesic)**

Conc= 50mg/ml

Dose rate =1.1mg/kg

V = (1.1 x 40)/50 = 0.88mls

**Lidocaine: Proximal Paravertebral Block**

Conc= 20mg/ml

Dose rate =5mg/kg

V = (5 x 40)/20 =10 mls

(3mls lidocaine + 7mls saline) x3

**Lidocaine: Epidural**

Conc= 20mg/ml

Dose rate =0.2mg/kg

V = (0.2 x 40)/20 = 0.4mls

(0.4mls + 2mls saline)

**Lidocaine: Intravenous Regional Anaesthesia**

Conc= 20mg/ml

Dose rate =4-5mls

(2.5 mls lidocaine + 2.5 mls saline)

**Tolazoline: Xylazine Reversal**

Conc= 100mg/ml

Dose rate= 0.1mg/kg

V = (0.1 x 40)/100 =0.04mls

**Atropine (In case of brachycardia)**

Conc= 0.54mg/ml

Dose rate= 0.04mg/kg

V = (0.04 x 40)/ 0.54 = 3mls

**Epinephrine (In case of anaphylaxis)**

Conc= 1mg/ml

Dose rate= 0.02mg/kg

V= (0.02 x 40)/1 = 0.8mls