**EMERGENCY DRUGS – CALCULATIONS**

* ***EPINEPHRINE***

Dose = 0.02 mg/kg

Concentration = 1mg/ml

***Cattle:***

Weight = 500 kg

Volume (ml) = (Dose (mg/kg) × Weight (kg)) / Concentration (mg/ml)

 = (0.02 mg/kg × 500 kg) / 1 mg/ml

 = 10 ml

***Small ruminants:***

The same dose of 0.02 mg/kg can be used for small ruminants.

* ***ATROPINE***

Dose= 0.04 mg/kg

Concentration= 0.54 mg/ml

***Cattle:***

Weight = 500 kg

Volume (ml) = (Dose (mg/kg) × Weight (kg)) / Concentration (mg/ml)

 = (0.04 mg/kg × 500 kg) / 0.54 mg/ml

 = 37.04 ml ≈ 38 ml

***Small ruminants:***

A dose of 0.04 mg/kg can be used for small ruminants.

* ***TOLAZOLINE***

Dose (cattle and small ruminants): 2X dose of Xylazine

 = 2(0.05 mg/kg)

 = 0.1 mg/kg

Concentration: 100 mg/ml

***Cattle:***

Weight= 500 kg

Volume (ml) = (Dose (mg/kg) × Weight (kg)) / Concentration (mg/ml)

 = (0.1 mg/kg × 500 kg) / 100 mg/ml

 = 0.5 ml