**EMERGENCY DRUGS – CALCULATIONS**

* ***EPINEPHRINE***

Dose = 0.02 mg/kg

Concentration = 1mg/ml

***Calf 1***

Weight = 85 kg

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

= (0.02 mg/kg × 85 kg) / 1 mg/ml

= 1.7 ml

***Calf 2:***

Weight = 120kg

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

= (0.02 mg/kg × 120 kg) / 1 mg/ml

=2.4 ml

* ***ATROPINE***

Dose= 0.04 mg/kg

Concentration= 0.54 mg/ml

***Calf 1:***

Weight = 85 kg

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

= (0.04 mg/kg × 85 kg) / 0.54 mg/ml

= 6.29 ml ≈ 6.3 ml

***Calf 2****:*

Weight= 120 kg

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

= (0.04mg/kg × 120kg) / 0.54 mg/ml

= 8.89ml ≈9 ml

* ***TOLAZOLINE***

Dose: 2X dose of Xylazine

= 2(0.025 mg/kg)

= 0.05 mg/kg

Concentration: 100 mg/ml

***Calf 2:***

Weight= 120 kg

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

= (0.05 mg/kg × 120 kg) / 100 mg/ml

= 0.06 ml

(No Tolazoline was required for calf 1 as no Xylazine was used on calf 1.)