DRUG CALCULATIONS

NB: Most calculations were rounded up.

2% Lidocaine

• Dose: 2 mg/Kg

• Concentration: 20 mg/mL

• Weight of Kid: 9 Kg

 $Volume = \frac{Weight \times Dose}{Concentration}$

 $Volume = \frac{9 \, Kg \times 2 \, mg/Kg}{20 \, mg/mL}$

Volume = 0.9 mL

NB: For simplicity, **1 mL** of Lidocaine will be used. This will be divide into 4 giving 0.25 mLs of Lidocaine per site

Combikel

• Dose: 10,000 IU/Kg

• Concentration: 200,000 IU/mL

• Weight of Kid: 9 Kg

 $Volume = \frac{Weight \times Dose}{Concentration}$

 $Volume = \frac{9 \, Kg \times 10,000 \, IU/Kg}{200,000 \, IU/mL}$

Volume = 0.5 mL

Toxic Dose of 2% Lidocaine

• Dose: 10 mg/Kg

• Concentration: 20 mg/mL

• Weight of Kid: 9 Kg

NB: 1/2 Toxic Dose was used

 $Volume = \frac{Weight \times Dose}{Concentration}$

 $Volume = \frac{9 Kg \times 5 mg/Kg}{20 mg/mL}$

 $Volume = 2.3 \, mL$

∴ Do **NOT** exceed 2.3 mLs of Lidocaine

5% Flunixin

• Dose: 1.1 mg/Kg

• Concentration: 50 mg/mL

• Weight of Kid: 9 Kg

 $Volume = \frac{Weight \times Dose}{Concentration}$

 $Volume = \frac{9 \, Kg \times 1.1 \, mg/Kg}{50 \, mg/mL}$

 $Volume = 0.2 \, mL$

DRUG CALCULATIONS

EMERGENCY DRUGS

Atropine

• Dose: 0.04 mg/Kg

• Concentration: 0.54 mg/mL

• Weight of Kid: 9 Kg

 $Volume = \frac{Weight \times Dose}{Concentration}$

 $Volume = \frac{9 \ Kg \times 0.04 \ mg/Kg}{0.54 \ mg/mL}$

 $Volume = 0.7 \, mL$

Epinephrine

• Dose: 0.02 mg/Kg

• Concentration: 1 mg/mL

• Weight of Kid: 9 Kg

$$Volume = \frac{Weight \times Dose}{Concentration}$$

$$Volume = \frac{9 \, Kg \times 0.02 \, mg/Kg}{1 \, mg/mL}$$

 $Volume = 0.2 \, mL$

DRUG CALCULATIONS