**LIDOCAINE**

Lidocaine 2% = 20mg/ml

Calf estimated weight = 120kg

Toxic Dose of Lidocaine = 10mg/kg, however dosage of 5mg/kg was utilized

Even though only 5ml of Lidocaine 2% was being utilized in both horns for the lateral cornual nerve block, the calculation on how much Lidocaine can be administered as a local anaesthetic was done.

**Calculation**

Amount to be administered using the dosage of 5mg/kg

Lidocaine 2% = $\frac{120kg x 5mg/kg}{20mg/ml}$ = 30ml

**Contraindications**

Do not use in patients with known hypersensitivity to amide class local anesthetics, severe degree of SA node, AV node or intraventricular heart block. Also use with caution in patients with liver disease, congestive heart failure, shock, hypovolaemia, severe respiratory depression or hypoxia. Lidocaine is also used to treat ventricular arrhythmias, besides being a local anaesthetic, therefore constant monitoring is required (especially heart rate, pulse rate and respiratory rate)

**Route of administration**

Subcutaneous

**Reference**

Plumb, D.C., 2011, Plumb’s Veterinary Drug Handbook, 7th ed, PharmaVet Inc, Willey-Blackwell, Wisconsin