Toxic Dose of Lidocaine

Toxic Dosage rate= 10 mg/kg

Concentration= 2%= 20 mg/ml

Weight of cow= 80 kg

Volume= $\frac{weight ×dosage}{concentration}$= $\frac{80kg×10mg/kg}{20 mg/ml}$= 40 ml

Total Volume of lidocaine to be used for nerve blocks = 10 mls; which is less than half the toxic dose allowing for repeat of nerve block if need be.