**Lidocaine 2% injection**

**Dose:**

**CATTLE:**

*Infiltration Anesthesia* =5 to 100 ml.

**Regional Nerve Blocks:**

*Cornual Nerve Block* = 10 to 15 ml.

*Epidural Block* (Standing Animal) = 4 to 8 ml.

*Paravertebral Block* = 50 to 80 ml.

**Dose used in Lab**:

0.2 mg/kg.

For epidural: 4.65mg

For all other procedures: 5ml (2 % lidocaine) + 15ml Saline = 5mg/ml

**Contraindications:**

Use with caution in patents with liver disease, CHF, shock, hypovolemia, severe respiratory depression or marked hypoxia. Also use with caution in patents with bradycardia. Do not use IV with epinephrine.

**Adverse Effects:**

Serious adverse effects rare if levels remain within proposed therapeutic range. Most adverse effects are dose related. CNS signs include drowsiness, depression, ataxia, muscle tremors. Transient nausea and vomiting may also occur.

**Toxicity/Overdosage:**

Signs include ataxia, nystagmus, depression, seizures, bradycardia, hypotension and circulatory collapse. As lidocaine id rapidly metabolized, mild signs may only require proper monitoring. Treat seizures with Diazepam or short acting barbiturates. For circulatory depression, treat with fluids, pressor agents, and if needed, begin CPR.

**Withdrawal:**

For epidural (up to 15ml of 2% solution) = 24 hrs (milk)…….1days (meat)

For infiltrative anesthesia (up to 2g in 100ml) = 72 hrs (milk)……..4days (meat)