Lidocaine 20mg/mL

**Indications** – Lidocaine is a local anesthetic used for infiltration anesthesia, as small a volume as possible should be used. Infiltration anesthesia can be obtained through subcutaneous or intramuscular routes of administration. Administer the injection slowly. Dosage depends on the size of the animal and the area to be anesthetized.

**Doses**

Proximal paravertebral block- 5mg/kg

Epidural block-0.2mg/kg

Intravenous Regional block - 2mg/kg.

**Contra indications –** Use should be restricted to calm animals. Use with extreme care in animals with severe shock, heart block, neurological diseases, spinal deformities, septicemia and severe hypotension or hypertension. Avoid injection at the actual surgery site since it may delay healing

Do not administer intravenously. Convulsions and shock may occur in sensitive animals if large doses of the drug are given intravenously.

**Side Effects** - Transient drowsiness may occur in animals receiving large doses of Lidocaine HCl. Signs of toxicity include: loss of consciousness, drop in blood pressure and respiratory collapse. The degree of toxicity depends upon the vascularization of the area. Spasm of certain muscle groups or convulsions may also occur. Treatment for toxicity is as follows: lowered head, artificial respiration, oxygen and I.V. pressor agents. Convulsions and spasm are controlled by means of small amounts of I.V. ultra short-acting barbiturates.

**Toxic Dose** – 10mg/kg

**Withdrawal Time** – Meat 1 day, Milk 24hrs

**Route** – IM

**Calculations**

1. P.P Block - (5mg/kg × 41.5kg) ÷ 20mg/mL = 10.4ml

Note: For the lab, half this amount was used i.e. 2.5ml lidocaine +2.5ml saline (3x, 1 each for T13, L1, L2 nerve blocks)

1. Epidural Block - (0.2mg/kg × 41.5kg) ÷ 20mg/mL = 0.42ml

Note: For the lab, 1ml lidocaine +2ml saline was used.

1. Intravenous Regional Block - (2mg/kg × 41.5kg) ÷ 20mg/mL = 4.2ml

Note: For the lab 2.5ml lidocaine +2.5ml saline was used.