**Ketamine 10% injection**

**Dose:**

**CATTLE:**

Not usually used alone but in combination with other drugs such as Xylazine and diazepam.

10-30 mg/kg IV,

IM 5mg/kg (with diazepam 0.25 mg/kg IV is excellent induction combination.)

**Dose used in Lab**:

0.05 mg/kg. = 0.25 ml

**Contraindications:**

Hazardous in patients with significant hypertension, heart failure, and arterial aneurysms. Not indicated for patients with hepatic or renal insufficiency. Generally not used in patients with seizure disorders. Contraindicated when there is increased intra-ocular pressure, open globe injuries or for procedures involving pharynx, larynx or trachea. Reduce dose in animals that have lost significant amounts of blood.

**Adverse Effects:**

Seizures have been reported. Diazepam suggested if treatment necessary. Rarely causes CNS effects. Pain after IM injection has been reported. Hypersalivation may occur; atropine is often administered.

**Toxicity/Overdosage:**

Considered to have a wide therapeutic index. When given too rapidly or in excessive doses, significant respiratory depression may occur. Treatment using mechanical respiratory support is recommended instead of using analeptic agents.

**Withdrawal:**

For IM (up to 10mg/kg) = 48 hrs (milk)…….3 days (meat)

For IV (up to 2mg/kg) = 48hrs (milk)……3 days (meat)