**Drug Sample Calculations:**

0.025 mg/kg of Xylazine & 0.05mg/kg Ketamine was given IM, preceding all procedures. The volume given was calculated as:

Xylazine:

0.025 mg/kg × 400 kg = 0.5 mL

20mg/ml

Ketamine:

0.05 mg/kg × 400 kg = 0.2 mL

100mg/mL

Weight of the animal = 400kg

The concentration of Xylazine & Ketamine respectively = 2 % and 10%

The dose of Xylazine & Ketamine respectively: 0.025 mg/kg and 0.05 mg/kg

* For the distal paravertebral block, we gave 10cc per site.
* i.e. 10 ml ventrally and dorsally at the distal ends of L1, L2 & L4.
* Collectively, 60 ml of Lidocaine was applied alone in this region.
* We were mindful not to exceed the toxic dose at the end of all procedures performed.
* The toxic dose for this cow was 100 mL, sample calculation shown below:

10 mg/kg × 400kg = 200 ml

20 mg/ml

200ml÷2= 100ml