To administer 2% Xylazine:

* Dose: 0.025 mg/kg

$$Volume=\frac{Weight ×Dose}{Concentration}$$

* Concentration: 20 mg/mL
* Weight of Cow #258: 100kg

$$Volume=\frac{100 kg ×0.025 mg/kg}{20 mg/ml}$$

$$Volume=0.125 ml$$

To administer 10% Ketamine:

* Dose: 0.05 mg/kg

$$Volume=\frac{Weight ×Dose}{Concentration}$$

* Concentration: 100 mg/mL
* Weight of Cow #258: 100kg

$$Volume=\frac{100 kg ×0.05 mg/kg}{100 mg/ml}$$

$$Volume=0.05 ml$$