Calculations

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| **Drug** | **Dose** | **Concentration** |
| Xylazine | 0.025 mg/kg | 2% |
| Ketamine | 0.05 mg/kg | 10% |
| Lidocaine | 0.2 mg/kg | 2% |
| Tolazoline | 0.1 mg/kg | 10% |
| Epinephrine | 0.02 mg/kg | .01% |
| Atropine | 0.2 mg/kg | 0.54mg/ml |

Estimated Weight of Animal = 373 kg

Formula -> volume = (weight × dose) / Concentration

* **Toxic dose of lidocaine** = W – 373KG D = 10 mg/kg C = 2%= 20 mg/ml

V = (373 \* 10) 20 = 186.50 ml

Therefore, half toxic dose is = 93.25 ml

* + Total amt of lidocaine used

Epidural = 5 ml

Distal paravertebral nerve block = 60 ml (10m at each sight)

I.V regional = 10 ml

Auriculo-Palpebral nerve block = 10 ml

Cornual Br. Lacrimal nerve block = 10ml

Total = 95ml

* **Volume of Xylazine given**

V = (373 \* 0.025)/ 20 = 0.47 ml

* **Volume of ketamine given**

V = (373 \* .05)/100 = 0.19ml

* **Volume of epinephrine**

V = (373\*0.02)/ 1 = 7.5 ml

* **Volume of Tolazoline**

Can be given two time the dose of Xylazine for animal showing signs of mild depressions

Can be given four time the dose of Xylazine for severely depressed animals

Formula used = V1 \* C1 = V2 \* C2

0.47ml \* 20 mg/kg = V2 \* 100mg/kg

Therefore V2 = (0.47\*20)100 = 0.09

×2 dose = 0.19 ml

×4 dose = 0.38 ml

* **Volume of Atropine**

V = (373 \* 0.04) / 0.54 = 27.6ml