Dosage Calculations
Large Animal Surgery
Laboratory Practical 2- Analgesia

Formula

$\frac{Dose(\frac{mg}{Kg}) x weight (KKg)}{Drug Concentration (\frac{mg}{ml})} $ = Vol (ml)

Table of Dosage Calculations For a 355 Kg sheep

|  |  |  |  |
| --- | --- | --- | --- |
| Drug  | Concentration (mg/ml) | Dosage (mg/Kg) | Volume (ml) |
| Analgesic Agents |
| Xylazine | 20 | 0.025 | 0.04 |
| Lidocaine\*PPB\*\*EpiduralIV Regional | 202020 | 50.22 | 8.88 0.363.55 |
| Flunixin | 50 | 1.1 | 0.78 |
| Reversal/Emergency Drugs |
| Tolazamine | 100 | 0.05 | 0.02 |
| Atropine | 0.54 | 0.04 | 2.63 |
| Epinephrine  | 1.0 | 0.02 | 0.71 |

\* Dosage for Cattle- derived values subsequently adjusted to: PPB & IV Regional **(2.5 ml Lidocaine :2.5ml Saline**) Epidural(**1ml Lidocaine : 2ml Saline**)

Fluid Therapy Calculations

Formula

$\frac{weight \left(Kg\right)x dosage (\frac{ml}{Kg})}{60x60 (secs)} x 20 drops/ml$ = drops/sec

$\frac{40.5 \left(Kg\right)x 10 (\frac{ml}{Kg})}{60x60 (secs)} x 20 drops/m$ = **1.97,** $\~2 drops/sec$