Wgt of animal = 37.7 kg

|  |  |  |  |
| --- | --- | --- | --- |
| Drug | Conc | Dose | Calcs |
| Xylazine (Induction) | 20mg/mL | 0.05mg/kg (IV) | V = (0.05x37.7)/20 = **0.0943 ml** (1.89 mg) |
| Xylazine (CRI) | 20mg/mL | 0.66mcg/kg/min | [(0.66x37.7x1000)/(16.67x188.5)]/20= **0.4 mL** |
| Ketamine (Induction) | 100 mg/mL | 6mg/kg | (6x37.70/100 = **2.26 mL** |
| Ketamine (CRI) | 100 mg/mL | 66mcg/kg/min | [(66x37.7x1000)/(16.67x188.5)]/100= **7.9 mL** |
| Lidocaine (Induction) | 20mg/mL | 1.0 mg/kg | 1x37.7/20 = **1.89 mL** |
| Lidocaine (CRI) | 20 mg/mL | 20mcg/kg/min | [(20x37.7x1000)/(16.67x188.5)]/20 = **12 mL** |
| Intra op fluid 0.9% Saline | ((mL/min xdrip factor)/ 60)/60 = ((188.5 x 20)/ 60)/60 = 1 drip per sec | | |
| Flunixin | 50 mg/mL | 2.2 mg/kg | 2.2x37.7/50 = **1.66 mL** |
| Penstrep | 200,000 IU/mL | 40,000 IU/kg | 40,000x37.7/200,00 = **7.54 mL** |
| Tolazoline | 100 mg/mL | 4 x 0.05 = 0.2 mg/kg | 0.2x37.7/100 = **0.0754 mL** |
| Atropine | 0.54 mg/mL | 0.04 mg/kg | 0.04x37.7/0.54 = **2.79 mL** |
| Epinephrine | 1mg/mL | 0.02mg/kg | 0.2x37.7/ 1 = **0.754 mL** |
| Lidocaine (epidural block) |  |  | 2cc |

Formulae

* Volume (V) = Dose (D) x Weight (W) / Concentration ©
* CRI (M) = [Dose (D) x Weight (w) x Volume (v)/ 16.67 x rate ®]/conc ©
  + Where rate ® = fluid rate (5mL/kg/min) x weight (37.7kg) = 188.5 mL/min
  + And Volume (v) = 1000 mL
* Drop factor 20 drops/mL