**Maintenance fluid – CRI**



**Table 3: Volumes of fluid infused into 1L bag of saline**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Drug | Concentration | Dose rate | Calculation | Withdrawal time | Indications for use |
| Ketamine | 100mg/ml | 4mg/kg/hr  OR  66mcg/kg/min | 66 x 33.4 x 1000 /  16.67 x (5x33.4)  =791.84  NOW divide by [ ]  = 791.84 / 100  = 7.92 mls  + 5.525mls additional Ketamine used IV during the course of the surgery because animal was light in anaesthesia) | 3 days meat  24 hrs milk | Continuous analgesia for the 2 hrs of surgery |
| Lidocaine | 20mg/ml | 20 mcg/kg/  min | 20 x 33.4 x 1000 /  16.67 x (5 x 33.4)  = 239.95  NOW divide by [ ]  = 239.95 / 20  = 11.99  = 12 | 1 day meat  24 hrs milk | Toxic dose:  10mg/kg |
| Xylazine | 20 mg/ml | 0.04 mg/kg/hr  OR  0.66 mcg/kg/min | 0.66 x 33.4 x 1000 /  16.67 x (5 x 33.4)  = 7.91  NOW divide by [ ]  = 7.91 / 20  = 0.39  = 0.4 | 14 days meat  48 hrs milk | Continuous analgesia for the 2 hrs of surgery |

**DRIP RATE**

* Rate of fluid delivery = 5mls/kg/hr
* Drop factor = 20 drops / ml

Therefore:

* Drip rate = wt. of animal x rate of fluid delivery x drop factor

= 33.4kg x 5mls / kg / hr x 20 drops / ml

= 3340 drops / hr

= 3340 / 60 = 55.66 drops / min

= 55.66 / 60 = 0.9 drops / sec

= 1 drop / sec