**Pre- operative Procedures**

**Preparation for surgery**

***Off feed period***

The calf was off feed for 24 hrs.

***Anesthetic protocol***

Table 1.1 showing loading dose

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pre medication drug | Dose Rate (mg/kg) | Total dose (mg/kg) | Concentration (mg/ml) | Volume (mls) | Route | Time given |
| Xylazine | 0.05 | 20 | 20 | 0.26 | IM | 1:38pm |
| Ketamine | 5.0 | 100 | 100 | 5.2 | IM | 1:38 pm |
| Lidocaine | 1.0 | 20 | 20 | 5.2 | IM | 2:30 pm |

Table 1.2 showing induction dose

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Induction agent | Dose Rate (mg/kg) | Total dose (mg/kg) | Concentration (mg/ml) | Volume (mls) | Route | Time given |
| Flunixin | 2.2 | 50 | 50 | 4.5 | IV | 1:46 pm |

Table 1.3 showing other drugs that were given

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Other drugs | Dose Rate (IU/kg) | Total dose (IU/kg) | Concentration (IU/ml) | Volume (mls) | Route | Time given |
| Pencillin-Streptomycin | 20000 | 20000 | 200000 | 10.3 | IM | 1:36 pm |

Table 1.4 showing reversal drugs for surgery

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Reversal agent | Dose Rate (mg/kg) | Total dose (mg/kg) | Calculations  | Concentration (mg/ml) |  Volume (mls) |  Route | Time given |
| Tolazoline | 0.1 | 0.1 | $$4 ×dose of xylazine=4 ×0.05=0.2$$$$V=\frac{103kg×0.2}{100}$$$=0.206 ml$  | 100 | 0.206 | IM |  |
| Epinephrine | 0.02 | 0.02 | $$V=\frac{103kg×0.02}{\begin{array}{c}1\\=0.206 ml\end{array}}$$ | 1 | 0.206 | IM |  |
| Atropine | 0.04 | 0.04 | $$V=\frac{103kg ×0.04}{\begin{array}{c}0.54\\=7.62 ml\end{array}}$$ | 0.54 |  | IM |  |