**DRUG TABLE Used for Castration (Open method)**

Animal # 789 Gender – Female BCS – 5 Weight (W) – 650kg

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Drug** |  | **Concentration ©** | **Dosage (D)** | **Volume Given (DxW/C)** | **Route** | **Time Given** | **Effect** | **Toxic Dose** | **Total volume given** |
| Xylazine |  | 2% (20mg/mL) | 0.05 mg/kg | 1.75 mL | IM (trapezius muscles) | 3:42pm | Sedative |  | **1.75mL** |
| Lidocaine  |  | 2% (20mg/mL) | 0.2 mg/kg |  |  |  | Analgesia | 10mg/mL (325mL) |  |
|  | Epidural | 6.5mL |  |  |  |  |  |
|  | Proximal Paravertebral | 10 mL per site (x3) |  |  |  |  |  |
|  | IV regional | 7mL |  |  |  |  |  |
|  | Auriculopalbebral | 10mL |  |  |  |  |  |
|  | **53.5mL** |
| Tolazaline |  | 100mg/mL | 0.05mg/kg | 0.325 mL |  IV (SLOW) |  | Reversal Drug |  |  |

Toxic Dose of 2% Lidocaine is 10mg/kg

Thus the toxic limit in this bull calf of weight 100kg is

 650\*10/20 = 325mL

Thus the total amount of Lidocaine that can be given should be less than 325mL.