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| Drug name | Active ingredient | Time given/onset/ duration | Indication | Contraindication | Dose/route of administration/Withdrawal time | Client information  |
| Xylazin 2%C:\Users\victoria\OneDrive\IMAG4175.jpg  | Xylazine at a concentration of 20mg/mlNOTE; only this concentration can be used in cattle | Given at 2:24pmOnset at 2:34pm (10mins)Duration : 45mins | Used in combination with other agents such as Ketamine for inducing anesthesia | Adverse effects such as : Salivation, ruminal atony, bloating, regurgitation, hypothermia, diarrhoea, premature partuation and ataxia.  Do not give to ruminants that are dehydrated, debilitated or with urinary tract obstruction | **Dose: 0.025mg/kg****Route**- IM**Withdrawal**: 8days -meat48hrs –milk**Note** :Dose for anxious or unruly cattle should be 0.05-0.1ml/kg of 2% Xylazine **based on plumbs drug handbook** | **Xylazine should only be used by individuals familiar with its use** |
| Ketamin 10%C:\Users\victoria\OneDrive\IMAG4172.jpg | Ketamine at 100mg/ml | Given at 2:22pmOnset 2:32 (10mins)Duration – 1hr | Used in combination with other agents such 2% Xylazine for inducing anesthesia | Respiratory depressionHigh doses- emesis , vocalization, erratic and prolonged recovery, cardiac arrest, dyspnea, muscular tremours | **Dose-** 0.05mg/kgRoute: IMWithdrawal period Milk- 3daysMeat-3days | **Should be administered by individuals familiar with its use.**  |
| Lidocaine injection BP 2%C:\Users\victoria\OneDrive\IMAG4171.jpg | Lidocaine at concentration 20mg/ml | Given at 2:55pm for epiduralTail tone lost at 2:57Onset – 2minsDuration 10-20mins | Used as local and topical anesthetic agent | Toxicity signs may include: loss of consciousness, drop in blood pressure and respiratory collapse.  | Dose- 0.2mg/kgWithdrawal time-Milk-96hrsMeat- 5days | This drug should only be used systemically by professionals familiar with its use and in a setting where adequate patient monitoring can be performed |
| Tolazine 10%Image result for tolazoline | Tolazoline at 100mg/ml- alpha-adrenergic blocker | Was not administered to animal | indicated for the reversal of effects associated with Xylazine | More sensitive to this drugs than horses. A dose od 1.5mg/kg IV can cause coughing, increased frequency of defecating and mild increases in breathing.High doses such as 2-10mg/kg IV can cause bright red conjunctival mucous membranes, coughing, nasal discharge, salivation, laboured breathing, CAN depression, straining , head pressing, restlessness, severe diarrhoea , signs of abdominal painRapid IV injection has been reported to cause significant cardiac stimulation, tachycardia, increased cardiac output, vasodilation, gastrointestinal distress | Dose- 2 to 4 times 0.025mg/kg (Xylazine Dose)**Withdrawal time**- milk - 48hrsmeat- 8days | **Because of risks associated with the use of Xylazine and the reversal of tolazoline, these drugs should be administered by veterinary professionals only** |