Pre-medicative and Emergency Drugs

Table showing Drugs used for Premedication in order of administration

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| Drug Name | Concentration | Dosage | Calculation of VolumeFor 500kg animal | Rationale | WDI |
| Xylazine Ketamine (In combination) | 2% (20mg/ml)10% (100mg/ml) | 0.025mg/kg IM0.5mg/kg IM |  0.025mg x 500kg/20mg/ml=0.63ml0.5mg x 500kg/100mg/ml=0.25ml | Sedation | Meat= 4 days(Milk=24hrs)Meat=3 days(Milk= 48hrs) |
| Combikel(Pen-Strep) | 200,000I.U/ml | 20,000I.U/kg IM | 20,000IU x 500kg /200,000IU/ml=50ml | Intra- and Post-Operative Antimicrobial Protection | Meat=21 days(Milk=3 days) |
| Banamine(Flunixin) | 50mg/ml | 1.1mg/kg IV | 1.1mg x 500kg/50mg/ml=11ml | Analgesia | Meat= 4days (for 2.2mg/kg dose)(Milk= 72hrs )Use in dairy cattle extra-label. |

Table of Emergency Drugs that may be needed Intra- or Post-Operatively.

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| Drug Name | Concentration | Dosage | Calculation of Volume | Rationale | WDI |
| Tolazoline | 100mg/ml | 2-4x Xylazine dose IV | For 3x xylazine dose0.025mg x 500kg x3/100mg/ml=0.375ml = 0.38ml | Alpha-antagonist that reverses the effects of xylazine. | Meat= 8daysMilk= 48hrs |
| Atropine | 15mg/ml | 0.04mg/kg IV | 0.04mg x 500kg/ 15mg=1.33ml | Anti-cholinergic that reverse bradycardia | Meat= 14days(Milk= 3days) |
| Epinephrine | 1mg/ml | 0.02mg/kg IM | 0.02mg x 500kg/ 1mg/ml=10ml | Causes vasoconstriction to counteract vasodilation in anaphylactic shock. | Endogenous molecule so no residues. |
| Fluids | 0.9% saline | 10ml/kg/hr | 10ml x 500kg= 5L/hr | To correct hypovolemia after haemorrhage as well as dehydration before surgery | N/A |