**Table 1: Drugs Necessary For Eye Enucleation (Pre-Op, Intra-Op, Post-Op & Emergency)**

Small Ruminants - Weight assumption = 50kg

Large Ruminants - Weight assumption = 500kg

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| Drug | Concentration | Dose rate | Calculations | Indications for use | Contraindications | WDT | Adverse Reactions |
| Xylazine 2% | 20mg/ml | 0.025mg/kg | **V= dose x wt/[ ]****Small Ruminant:**= 0.025 x 50/20= 0.0625mls**Large Ruminant:**= 0.025 x 500/20= 0.625mls | Sedative | Careful consideration should be given before administering to cattle with significantly depressed respiration, severe pathologic heart disease, advanced liver or kidney disease, severe endotoxic or traumatic shock.Special precautions should be taken when administered during warm environmental conditions as HYPERTHERMIA may occur. Proper aftercare must be provided for those cases. Always provide cool shade during the recovery period.Do not use in pregnant animals as studies have not been completed to show its safety in all stages of pregnancy. Premature parturition and retained placenta have been reported in a limited number of cases where Xylazine was administered during the last trimester of pregnancy.Lateral recumbency is to be avoided during recovery due to increasing the possibilities of bloat, regurgitation and/or aspiration. Sternal recumbency is the appropriate recovery position. A 24-hour fast prior to injection will also reduce the incidence of bloat.Do not use Xylazine in conjunction with tranquilizers.Following the use of Xylazine, veterinarians and attendants should continue to use care and appropriate handling techniques, since conscious animals, although sedated, are capable of inflicting personal injury. | Milk = 14 daysMeat = 48 hrs | Xylazine used at recommended dosage levels may occasionally cause slight muscle tremors, bradycardia and a reduced respiratory rate. Temporary salivation, diuresis and ruminal stasis may be observed during the period of sedation. A transient, self-limiting diarrhea may occur 24 to 48 hours following administration |
| Lidocaine 2% | 20mg/ml | 0.2mg/kg | **Small Ruminant:**5mls/eye**TOTAL=10mls****Toxic Dose:**10mg/kg= 10 x 50/20**= 25mls****Large Ruminant:**10mls/eye=**TOTAL=20mls****Toxic Dose:**10mg/kg= 10 x 500/20**= 250mls** | Local anaesthetic | Do not administer intravenously. Convulsions and shock may occur in sensitive animals if large doses of the drug are given intravenously (inadvertently) or intrathecally. This may be treated by injecting a short acting barbiturate intravenously to control central nervous system stimulation and immediately administering artificial respiration or oxygen. | Milk = 24hrsMeat = 1 day | Transient drowsiness may occur in animals receiving large doses of Lidocaine HCl. Signs of toxicity include: loss of consciousness, drop in blood pressure and respiratory collapse. The degree of toxicity depends upon the vascularization of the area. Spasm of certain muscle groups or convulsions may also occur. Treatment for toxicity is as follows: lowered head, artificial respiration, oxygen and I.V. pressor agents. Convulsions and spasm are controlled by means of small amounts of I.V. ultra short-acting barbiturates. |
| Flunixin Meglumine(Banamine) | 50mg/ml | 1.1mg/kg | **Small Ruminant:*** 1. x 50/50

= 1.1mls**Large Ruminants:*** 1. x 500/50

= 11mls | Pre-emptive analgesiaPost-op for 3 days | Do not administer intra-arterially. Inadvertent intra-arterial injection may cause adverse reactions. Do not use in cattle showing hypersensitivity to flunixin meglumine. The drug is contraindicated in animals with hepatic disease, renal and cardiovascular impairment, gastro-intestinal ulceration and/or platelet disorders. It is also contraindicated in dehydrated animals. | Meat = 4 days | Do not use in bulls intended for breeding as reproductive effects of Flunixin Injection in this class of cattle have not been investigated.During clinical studies no significant side effects were reported when the drug was injected slowly. In cattle, a temporary head thrashing can occur if the drug is injected too rapidly. |
| Penstrep | 200,000 IU/ml | 20,000 IU/kg | **Small Ruminants:**20,000 x 50/200,000= 5mls**Large Ruminants:**20,000 x 500/200,000=50mls | antibiotic | Contraindicated in known cases of hypersensitivity to penicillins. | 30 Days |  |
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| EMERGENCY DRUGS | **-------------------** | **-------------------** | **--------------------** | **-------------------** | **-----------------------** | **------------------** | **---------------------** |
| Tolazoline | 100mg/ml | 1. x Xylazine dose (0.025) i.e.

0.05mls  | **Small Ruminant:**0.05 x 50/100= 0.025mls**Large Ruminant:**0.05 x 500/100= 0.25mls | Xylazine reversal |  | None for food animals |  |
| Atropine | 0.54mg/ml | 0.04mg/kg | **Small Ruminant:**0.04 x 50/0.54= 3.7mls**Large Ruminant:**0.04 x 500/0.54= 37mls | Use if bradycardic(<30bpm) |  | Milk = 3 daysMeat = 14 days |  |
| Epinephrine | 1mg/ml | 0.02mg/kg | **Small Ruminant:**0.02 x 50/1= 1ml**Large Ruminant:**0.02 x 500/1= 10mls | Anaphylactic reactions |  | No WDT |  |