DRUGS USED OR KEPT ON STANDY FOR POSSIBLE USE DURING EYE Surgery LAB

| Drug Used | Concentration | Dosage | Maximum <br> Volume that <br> can be <br> administered <br> ( $w^{*} d / c$ ) | Reason for utilizing drug | Withdrawal Period of Drug | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Xylazine | $20 \mathrm{mg} / \mathrm{ml}$ or $2 \%$ | $0.025 \mathrm{mg} / \mathrm{kg}$ | 0.5 ml IM | To achieve standing sedation | 14 days from meat | Drug is an alpha-2 agonist which causes respiratory depression so care must be taken when administering. |
| Flunixin Meglumine | $50 \mathrm{mg} / \mathrm{ml}$ or 5\% | $1.1 \mathrm{mg} / \mathrm{kg}$ | 8.8 ml IV | Utilized for its analgesic properties | 4 days from meat |  |
| Lidocaine | $20 \mathrm{mg} / \mathrm{ml}$ or $2 \%$ | $5 \mathrm{mg} / \mathrm{ml}$ | 100 ml . Considering a single eye is likely being operated on, the volumes utilized for local blocking would be including within the nerve block section. | To achieve local anaesthesia at the site of the procedure. | 24hrs from meat. | This volume refers to the total volume the animal can handle before hitting toxic therapeutic levels. For local blocks of the eye, this volume would not be needed, a much smaller volume can be administered. |
| Penn strep <br> - Procaine benzylpenicillin + Dihydrostreptomycin sulphate. | $200000 \mathrm{IU} / \mathrm{ml}$ | $20000 \mathrm{IU} / \mathrm{kg}$ | 40 ml | Antibiotic drug therapy | 30 days from meat. | Used as a prophylactic to prevent infection after the procedure. |
| Tolazoline | 100mg/ml | $0.05 \mathrm{mg} / \mathrm{ml}$ | 0.2 ml | Reversal agent for alpha-2 agonists |  | In the case a large dose of Alpha-2-Agonist must be used, tolazoline can be used to antagonise the |

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|  |  |  |  | agonist resulting in <br> alleviated respiratory <br> depression. |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Atropine | $150 \mathrm{mg} / \mathrm{ml}$ | $6 \mathrm{mg} / \mathrm{kg}$ | 16 ml | Kept on standby <br> if the heart <br> needs assistance <br> in returning to a <br> normal manner <br> of beating. | - |  |
| Epinephrine | $10 \mathrm{mg} / \mathrm{ml}$ | $0.02 \mathrm{mg} / \mathrm{kg}$ | 0.8 ml | Kept on standby <br> in the <br> occurrence of an <br> anaphylactic <br> reaction. | - | - |

Consider the following sample calculation for finding volume of drug administered for a 550kg animal.
Using Xylazine @ a concentration of $20 \mathrm{mg} / \mathrm{ml}$ and dosage of $0.05 \mathrm{mg} / \mathrm{kg}$ :

Volume of Xylazine Needed $=($ Weight of the animal * Dose of Xylazine Needed)
Concentration of Xylazine
Volume of Xylazine Needed $=(400 \mathrm{~kg} * 0.025 \mathrm{mg} / \mathrm{kg})$
$20 \mathrm{mg} / \mathrm{ml}$
Volume of Xylazine Needed $=0.5 \mathrm{ml}$ of $20 \mathrm{mg} / \mathrm{ml}$ Xylazine

