**Post operative drugs**

**Drug calculations**

Using an estimated weight of 100kg

* Flunixin- (1.1 x 100)/50=2.2ml

Using an estimated weight of 150kg

* Flunixin- (1.1 x 150)/50= 3.3ml
* Penstrep- (20,000 x 150)/200,000=15ml
* Xylazine- (0.025 x 150)/20= 0.19ml

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name of drug | Class of drug | Active ingredient | Description | Indications | Adverse effects | Dosage given | Additional info |
| combikel | antibiotics | Dihydrostreptomycin(aminoglycoside antibiotic)Benzathine benzylpenicillin(penicillin based antibiotic) | Injectable suspention antibiotic given IM or SC.Dihydrostreptomycin protects against gram negative cocci and bacilli with added gram positive protection | Treating infections with organisms that are DHS sensitive or penicillin G resistant.Post operative prevention of infection | Risks hypersensitivity reactions and irritation at site of injection.Procaine seldom causes abortion in pregnant sows and nervous reactions in pigs.Prolonged administration leads to:deafness, vestibulotoxic (ataxia, incoordination, nystagmus) and nephrotoxic signs | Cattle: 1ml/10kgAnimal 172, 15ml was given | Anesthetics and muscle relaxants potentiate the effects of the drug.Contraindications include: Known hypersensitivity and renal insufficiency. |
| tetravet | Antibiotic and antiseptic | Oxytetracycline hydrochlorideGentian violet | The oxytetracycline hydrochloride is a broad spectrum antibiotic . The gentian violet component is antiseptic and is used to protect against both fungal and bacterial injections. | Used to prevent infection in cuts, abrasions and other breaks in the skin | Can cause irritation in deep open woundsCauses staining of the affected area | As much as needed | Tetravet is used prior to the larvicid(larvicid) allowing the antibiotic and antiseptic effects to act on the wound . Larvicid prevents maggot infections |
| Banamine | Non SteroidalAnti Inflammatory Drug(NSAID) | Flunixin meglumine | Used to relieve pain, fever and inflammation by inhibiting COX 1 and COX 2. | Alleviation of pain and inflammation Control of pyrexia in bovine respiratory disease and endotoxemia | Can exacerbate existing ulcersHypersensitivity reactionsPotential delay in parturitionGI and Renal toxicity | Cattle:1.1mg/kgAnimal176-was given 2.2mlAnimal 172- was given 3.3ml | Contraindications:Known hyper sensitivity, renal failure , hepatic failure or hematological disordersMay mask cardio pulmonary signs associated with endotoxemia or intestinal devitalizationIf initial dose doesn’t work the others will not as well.Do not inject intra-arterially as it will cause CNS stimulation leading to hysteria, ataxia, muscle weakness and hyperventilationNot to be used in horses meant for food.Not recommended for breeding bulls as there are reports of it being tetratogenic. |
| Larvicid | LarvicieC:\Users\KIBBLES\Desktop\lab report detail pics 13_26\20130903_150932.jpg | Dimethyl dichlorovinyl phosphate(acetylcholinesterase inhibitor) | Organophosphorus insecticidal spray which has added antiseptic properties. | Prevention of myasis in open wounds(prevent egg laying as well as kills the existing larvae) Post surgical wound care also preventing myasis | Signs of organophosphate poisoning:Hypersalivation, increased sweating, vomiting , diarrhea, abdominal pain, blurring of vision  | Use as needed (enough to cover the affected area) | Toxic residues can affect the user through inhailation, intradermal absorption or accidental ingestion.Safety masks and gloves should be worn to prevent toxicity in user.Antidote for toxicity is pralidoxime or atropine sulphate. |