**DRUG INFORMATION**

| **SEDATIVE, ANESTHETIC & EUTHANIZING DRUGS** |
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| **TRADE NAME** | **DRUG NAME** | **INDICATION** | **CONTRAINDICATION** | **WITHDRAWAL TIME** | **MAJOR DRUG INTERACTIONS** |
| **Bupivacaine** | Bupivacaine hydrochloride | Local anesthetic used as analgesia for surgical incisions (particularly for dehorning and debudding) |  | N/A | Beta-blockers and Digoxin |
| **Xylaxin 2% INJ** | Zylaxine HCL | For sedative and analgesic purposes in oral, ophthalmic, orthopedic, dental procedures etc. | Careful consideration should be given before administering to horses and *Cervidae* with significantly depressed respiration, severe pathologic heart disease, advanced liver or kidney disease, severe endotoxic or traumatic shock and stress conditions such as extreme heat, cold, high altitude or fatigue.Do not use in conjunction with tranquilizers. | N/A |  |
| **Ketamine 10%** | Ketamine HCL | 1. Restraint or as the sole anesthetic agent for diagnostic or minor, brief, surgical procedures that do not require skeletal muscle relaxation
2. Pain control
 | Respiratory depression may occur following administration of high doses of Ketamine  | Meat: 3 days till slaughterMilk: 48 hours  |  |
| **Thiopental/Tiopental 1g** | Thiopental Sodium | Induction agent for general anesthesia used with other anesthetics or by itself for short procedures. | Absence of suitable veins for IV. Heart diseases, shock, myasthenia gravis, asthma, intracranial pressure,Hypersensitivity. | N//A |  |
| **Zylazin 100** | Xylazine | An analgesic, sedative and muscle relaxant for horses | Shock, late pregnancy, severe respiratory depression | 3 days |  |
| **Lidocaine 2%** | Lidocaine HCL | A potent local anesthetic for epidural and nerve conduction anesthesia | Animals with a known hypersensitivity to the drug or serious hepatic or cardiac damage | 36 hours |  |
| Propofol/Propovan |  | Short-acting anesthetic agent for induction and maintenance of general anesthesia |  |  |  |
| Buscopan compositum injekcio A.U.V. | Butylscopolamine bromide + Metamizole | 1. Controls pain associated with simple equine colic and as a diagnostic aid in more severe equine colic.
2. Controls diarrhoea in cattle and horses particularly when pain or abdominal discomfort is present.
3. For the control of pain associated with urinary obstruction in horses.
 | Paralytic ileus in horses. Hypersensitive patients.Pregnant animals | Horses: 12 days till slaughterMeat: 9 days after IV injection. 28 days after IM injection.Not to be used in milk producing cows |  |
| Morphine Sulphate Injection 15mg in 1ml | Morphine Sulphate | Morphine sulfate is an opioid agonist indicated for the management of pain not responsive to non-narcotic analgesics. | Known hypersensitivity to morphine.Respiratory depression in the absence of resuscitative equipment.Acute or severe bronchial asthma or hypercarbia.Any patient who has or is suspected of having paralytic ileus. |  |  |
| Valium | Diazepam | Sedative to treat convulsions, muscle relaxant, increase appetite, urine spraying, aggression, ease an animal in and out of anesthesia | Hypersensitivity or allergy to drug |  | Cimetidine, Antacids, Omeprazole, Erythromycin, Rifampin etc.  |
| Natrium Pentobarbital 20% | Pentobarbital Sodium | Barbiturate leading to immediate depression of the cerebral cortex, subcortical structures, vital cerebral centres and the cardiac muscle. Overdoses can be used for euthanasia  | Hypovolemia, anemia, cardiac and respiratory diseased animals | N/A |  |
| Atropine Sulphate 1/120 Grain | Atropine Sulphate | Pre-anesthetic adjuvant, reduce salivation, bronchial secretion or internal peristalsis associated with colic or diarrhea. An antidote for parasympathomimetic drugs | Hypersensitive patientsPatients that have myasthenia gravis | Cattle, Sheep, Pigs:Meat: In the UK, 28 days when used as an antidote and 14 days when used as an anti-muscarinic drug,Milk: 6 days when used as antidote and 3 days when used as an anti-muscarinic. |  |

**DOSAGES**

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| **SEDATIVES, ANESTHETICS & EUTHANIZING DRUGS** |
| **DRUG** | **CATTLE** | **SHEEP** | **GOAT** | **HORSE** | **SWINE** |
| **Bupivacaine** | **6ml** | **6ml** | **6ml** | **-** | **-** |
| **Xylazine 2%** |  |  |  |  |  |
| **Ketamine 10%** | **Analgesia:****0.4-1.2mg/kg/hr****Sedation:****2mg/kg IV after Xylazine** | **2mg/kg IV then 4ml/minute at 2mg/ml** | **-** | **2.2-2.75mg/kg IV after Xylazine** | **Anesthesia:****11mg/kg IM with Atropine (additional give 2-4mg/kg IV)** |
| **Thiopental/Tiopental 1g** | **8.14-15.4mg/kg IV** **Calves under 2 weeks 15-22 mg/kg IV** | **9.9-15mg/kg IV** |  | With a pre-anesthetic tranquilizer:8.25mg/kg IV | **5.5-11mg/kg IV** |
| **Xylazin 100** | **-** | **-** | **-** | **0.65-1.1ml** | **-/100kg IV slowly** |
| **Lidocaine 2%** | **Epidural:****5-15ml****Nerve Block:****5-20ml** | **-** | **-** | **Epidural:****5-15ml****Nerve Block:****5-20ml** | **-** |
| **Propofol/Propovan** | **5.5mg/kg slowly IP****(Maintenance 2.2 mg/kg)** | **-** | **-** | **With Xylazine 0.5mg/kg IV** **For induction:****2.4mg/kg IV****(Maintenance 0.3mg/kg/min IV** | **-** |
| **Buscopan compositum injekcio A.U.V.** | **5ml/100kg IV or IM** | **-** | **-** | **5ml/100kg IV** | **-** |
| **Morphine Sulphate Injection 15mg in 1ml** |  |  |  |  |  |
| **Valium** |  |  |  |  |  |
| **Natrium Pentobarbital 20%** | **Hydrocarbon toxicity:****30mg/kg IV****Sedation:****1-2g IV****(Calves 15-20mg/kg IV) Anesthetic** | **20-30mg/kg IV (adults)****Lamb 15-26 mg/kg IV** | **20-30mg/kg IV (adults)****Lamb 15-26 mg/kg IV** | 15-18 mg/kg IV | **Euthanasia:****30mg/kg IV****Anesthetic:****15-30mg/kg** |
| **Atropine Sulphate 1/120 Grain** | **Pre-anesthetic:****0.06-0.12mg/kg IM****As a cholinergic treatment:****0.5mg/kg (1/4th IV and the remainder IM or SC)** | **As a cholinergic treatment:****0.5mg/kg (1/4th IV and the remainder IM or SC)** | **As a cholinergic treatment:****0.5mg/kg (1/4th IV and the remainder IM or SC)** | **For Bradyarrhythmias:****0.01-0.02mg/kg IV****For bronchodilation:** **5mg/450kg IV****For organophosphate treatment:****1mg/kg IV** | **Pre-anesthetic:****0.04 mg/kg IM****For organophosphate treatment:****1mg/kg IV** |