|  |  |  |  |
| --- | --- | --- | --- |
| **Drug** | **Usage** | **Dosage and Route of Delivery** | **Contraindications** |
| Sodium Bicarbonate | As an antacid to help treat acidosis in animals due to respiratory retention of carbon dioxide, metabolic disorders and retention of hydrogen ions in the kidneys | Usually intravenously. Dosage depends on the condition and severity. | Alkalosis, convulsions or congestive heart failure |
| Sterile Water | Used as an additive to drugs for injection intravenously | Intravenously with other drugs. | Due to being hypotonic to the body, it should not be given without the appropriate mixture to leave it isotonic to cells. |
| Neuromax 1.5% | Used to constrict nerves to prevent the transmission of signals. | Dosage depends on the nerve’s size that is being blocked. Given either subcutaneously or intramuscularly |  |
| Flunixin Meglumine (Injectable) | In horses, used to treat inflammation and pain due to musculoskeletal diseases, as well as swelling in colic.In cows, used to treat pyrexia due to bovine respiratory disease, endotoxemia and acute mastitis. It also treats inflammation due to endotoxemia. | Cattle, 1.1-2.2 mg/kg either once a day or split into two doses via a slow intravenous drip.Horses, 1.1 mg/kg once daily up to 5 days either intramuscular or intravenously | Has a withdrawal time of 4 days in meat and 36 hours in milk for cattle. Not suitable for dry dairy cows. |
| Dexamethasone | Used to decrease inflammatory and immune responses in horses. | Intramuscularly at different doses depending on if the disease is an emergency or not. | Young horses, horses with weakened immune system. |
| Atropine Sulfate | Used to reduce pain in the eye after a surgery on it. Also used to treat secondary forms of glaucoma | Topical administration to the eye | Animals with primary glaucoma. Animals suffering from anticholinergic poisoning. |
| Heparin | Used to treat clotting disorders that cause increased clotting. | Dosage varies depending on each individual animal reaction to it. Monitoring is required for proper usage. Given either subcutaneously or intravenously. | Can interact with drugs such as NSAIDS, aspirin and warfarin. Can also interact with corticosteroids, insulin and ACTH. |
| Urolix | Used as a rapid acting diuretic. | Cattle and Horses:1.5 mg/kg twice a day between 6 and 8 hours interval.Swine: 0.5 mg/kg | Dehydrated animals. Meat and milk from animals should not be consumed after 48 hours of use. |