

Anestt

2% Lidocaine Hydrochloride

For Veterinary Use

Injectable solution

Action:

Antiarrhythmic and anticonvulsant for horses, cattle, swine, sheep, dogs, and cats.

Formula:

Each 100 mL contains:

Lidocaine (Hydrochloride) 2.060 g
Epinephrine bitartrate 1.001 mg
Sterile aqueous vehicle q.s. 100 mL

Indications of use:

Lidocaine hydrochloride is a local anesthetic drug that has demonstrated to have antidysrhythmic action and therapeutic application in treatment of supraventricular tachyarrhythmias, but is considered primarily useful for reversion of ventricular arrhythmias developed during general anesthesia, surgery, ischemia and other forms of trauma. Association with adrenaline allows local vasoconstriction, thus increasing anesthetic time. Anestt is indicated for horses, cattle, dogs, cats, sheep and swine.

Pharmacology and Toxicology:

Lidocaine stabilizes the neuronal membrane by inhibiting ionic flow necessary for initiation and conduction of impulses, providing local anesthetic action.

Lidocaine distribution occurs when the drug enters accidentally into blood circulation. It is first distributed to organs with higher blood perfusion as brain, liver, kidneys and lungs.

Then goes to tissues with intermediate blood supply, such as muscles and, finally, to tissues with lower blood perfusion, such as adipose tissue. The time for lidocaine metabolism varies among animals, depending on liposolubility and plasmatic protein binding. In general, drug binds to plasma albumin, having low affinity by gamma globulins. The main route of biotransformation is the enzymatic hydrolysis that occurs very slowly. Lidocaine in their complete form or metabolites is excreted almost entirely by the kidneys.

The period of action varies between 60 to 120 minutes and the half-life after intravenous injection occurs typically between 1.5 to 2 hours. No carcinogenic, mutagenic or teratogenic effects were reported, nor resistance to pathogens and blood dyscrasias were observed. The product does not cause physical or psychic dependence at indicated doses.

Application and Dosage:

Subcutaneous route is indicated. The dose varies according to animal species, but usually for small animals the dose is 1 - 3 mL and for large animals 5 - 10 mL to reach anesthetic action.

Precautions:

Disinfection procedures should be carried out before administration. Caution is recommended when administering lidocaine to animals under treatment with beta-adrenergic blockers such as metoprolol or propranolol.

Contraindications:

The drug should not be used in animals with hypersensitivity to lidocaine and adrenaline, under treatment with sulfonamides, and animals with hepatic or renal illness.

Adverse Effects:

Since that the drug concentration increases at central nervous system, the inhibitory circuit is depressed where excitatory signals, including seizure, occur.

Most local anaesthetics cause direct relaxation smooth muscle of blood vessels, which results in reducing both the contractile force as the stimulus conduction.

Presentation:

One 50 mL vial and one 20 mL vial, containing injectable solution of 2 % Lidocaine hydrochloride.

Keep the product in a cool dry place, away from direct sunlight and out of reach of children and pets.

Sold under mandatory veterinary prescription and application under Veterinarian direction.

Licensed by the Ministry of Agriculture with No. 7941 in 2001/09/24.

Responsible Technician:

Dra. Vera de Fátima Costa Calixto - CRF / SP 11.427

Manufacturer and License Holder:

Syntec do Brasil Ltda.

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