

READ THIS INFORMATION BEFORE PRESCRIBING THIS PRODUCT

INDICATIONS AND USAGE

INDICATIONS AND USAGE Astero" is a medicated Hydrogel for wounds in a Metered Dose (M-DOSE^M) bottle containing Lidocaine Hydrochloride 4%, an amide type local anesthetic. A wound is defined as a tear, rupture, herniation or trauma resulting in the lack of continuity of a tissue of the body either internal or external. An open wound is a break in the skin or in a mucous membrane. A closed wound involves underlying tissues without a break in the skin or a mucous membrane. Astero" is indicated pair, pairing livel wound healing in either open and closed injuries or conditions. Conditions of pain include topical pain, postsurgical pain and pain associated with various types of closed or open wounds. Conditions of closed wounds include soft tissue and bony injuries caused by contusions, hematomas, crush injuries and sprains/strains due to torsion, traction, compression, tearing and/or blunt trauma. It also is indicated as a healing medium for open wounds, acute or chronic etiologies including lacerations, surgical wounds and there wounds, severe to mild abreasions and up to a degree burne as well as wounds due to mixed vacual etiologies, diabetic uiters, atterial and enous stasis lucers, decubitivu lucers, and painsure wounds.

DOSAGE

Apply to the affected area as directed. Maximum 12 pumps per day.

DOSAGE FORMS AND STRENGTHS

cated hydrogel for wounds. Each gram of Astero[®] contains 4% Lidocaine HCl USP (40mg). is a topica

CONTRAINDICATIONS

caine Hydrochloride USP is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type

TO EXECUTIONS For External Use Only. Avoid Contact with Eyes. If irritation or sensitivity occurs or infection appears, discontinue use and institute appropriate therapy. Astero® should be used with caution in ill, elderly, debilitated patients and children who may be more sensitive to the systemic effects of Lidocaine Hydrocholorde USP.

ADVERSE REACTIONS

Most common adverse reactions are redness or swell or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch redness or swelling at the application site. Less common side effects, such as sluggishness, confusion, slow breathing, low blood pressure, or slow heartbeat, may occur. To report SUSPECTED ADVERSE REACTIONS, contact Gensco Pharma at 866-608-6284

DRUG INTERACTIONS

Prilocaine, Bupivacaine, Amyl nitrates/sodium nitrate/sodium thiosulfate, Dofetilide. Lomitapide, Beta-blockers (e.g., atenolol), Cimetidine, or Class 1 antiarrhythmic drugs (ex. Mexiletine). This may not be a complete list of all interactions that may occur. Ask your health care provider if Astero' may interact with other medicines that you take.

USE IN SPECIFIC POPULATIONS

Use in Pregnancy: Teratogenic Effects - Pregnancy Category B. Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Lidocaine Hydrochloride USP is administered to a nursing woman. Pediatric use: Dosage in children should be reduced, commensurate with age, body weight and physical condition. Geriatric use: No overall clinical differences in safety or effectiveness have been observed between the healthy elderly and other adult patients.

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FULL PRESCRIBING INFORMATION: CONTENTS* WARNING 1 INDICATIONS AND USAGE 1 2 DOSAGE AND ADMINISTRATION 2.1 Dosage for children 2.2 Administration | 3 DOSAGE FORMS AND STRENGTHS | 4 CONTRAINDICATIONS | 5 WARNINGS AND PRECAUTIONS | 6 ADVERSE REACTIONS 6.1 Central nervous system 6.2 Cardiovascular system 6.3 Allergic | 7 DRUG INTERACTIONS 7.1 Serious interactions 7.2 General interactions | 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy 8.2 Labor and Delivery 8.3 Nursing Mothers 8.4 Pediatric Use 8.5 Geriatric Use | 9 OVER DOSAGE 9.1 Management of local anesthetic emergencies | 10 DESCRIPTION 10.0 Active Ingredients 10.2 Inactive Ingredients | 11 CUNICAL PHARMACOLOGY 11.1 Mechanism of Action 11.2 Onset of Anesthesia 11.3 Hemodynamics 11.4 Pharmacokinetics and Metabolism | 12 NONCLINICAL TOXICOLOGY 1.1 Carcinogenesis, Mutagement of Fertily | 13 HOW SUPPLIED / STORAGE AND HANDLING * Sections or subsections omitted from the prescribing information are not listed.

Warning: FOR EXTERNAL USE ONLY. NOT FOR OPHTHALMIC USE. EXCESSIVE DOSAGE, OR SHORT INTERVALS BETWEEN DOSES, CAN RESULT IN HIGH PLASMA LEVELS OF LIDOCAINE AND SERIOUS ADVERSE EFFECTS, PATIENTS SHOULD BE INSTRUCTED TO STRICTLY ADHERE TO THE RECOMMENDED DOSAGE AND ADMINISTRATION GUIDELINES AS SET FORTH IN THIS PACKAGE INSERT. THE MANAGEMENT OF SERIOUS ADVERSE REACTIONS MAY REQUIRE THE USE OF RESUSCITATIVE EQUIPMENT, OXYGEN, AND OTHER RESUSCITATIVE DRUGS.

1. Indications: Astero® is indicated for associated pain, painful wounds and wound healing in either open and closed injuries or conditions. Conditions of pain include topical pain, postsurgical pain and pain associated w/various types of closed or open wounds. Conditions of closed wounds include soft tissue and bony injuries caused by contusions, hematomas, crush injuries and sprains/strains due to torsion, traction, compression and/or blunt trauma. It also is indicated as a healing medium for open wounds caused by trauma, and acute or chronic etiologies including lacerations, surgical wounds, and puncture wounds, severe to mild abrasions and up to 2nd degree burns as well as wounds due to mixed vascular etiologies, diabetic ulcers, arterial and venous stasis ulcers, decubitus ulcers and pressure wounds.

2. Dosage and Administration: Each pump of the Astero® bottle (30mL Airless Metered Dose bottle) (NDC35781-2500-3) will deliver 0.25 mL of Astero® (10 mg Lidocaine Hydrochloride USP), enough to cover a 2-inch by 2-inch area of skin. A single application should not exceed 4 pumps of the M-DOSE bottle, equal to 1 gram of Astero®, (40 mg of Lidocaine Hydrochloride USP).
No more than 12 pumps of the M-DOSE bottle, equation 13 pumps of the M-DOSE bottle, equation 13 pumps of the M-DOSE bottle, equation should be exercised, particularly when employing large amounts, since the incidence of adverse effects is directly proportional to the total dose of local anesthetic agent administered.
2.1 Dosage for children: The recommended dose of Astero® varies as a function of age and weight. For children less than ten years who have a normal lean body mass and a normal lean body development, the maximum dose may be determined by the application of one of the standard pediatric drug formulas (e.g., Clark's rule). For example, a child of five years weighing 50 lbs, the dose of lidocaine should not exceed 75.100 mg (approximately 1.9 to 2.5 grams of Astero®) when calculated according to Clark's rule. In general, the maximum amount of lidocaine administered should not exceed 412 pumps in a twenty-four-hour (24-hour) period. One pump covers an area of 2 x2 inches.

3. Dosage Form and Strength: Astero® is a topical medicated hydrogel wound dressing. Each gram of Astero® contains 4% Lidocaine Hydrochloride USP (40mg).

4. Contraindications: Lidocaine Hydrochloride USP is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type or to other components of Astero*.

5. Warnings and Precautions: If irritation or sensitivity occurs or infection appears, discontinue use and institute appropriate therapy. Astero® should be used with caution in ill, elderly, debilitated patients and children who may be more sensitive to the systemic effects of Lidocaine Hydrochloride USP. In case of accidental ingestion get medical help or contact Poison Control Center right away.

Adverse Reactions: Adverse experiences following the administration of Lidocaine Hydrochloride USP are similar in nature to those observed with other amide local anesthetic agents. These adverse experiences are, in general, dose-related and may result from high plasma levels caused by excessive dosage or rapid absorption, or may result from a hypersensitivity, idiosyncrasy or diminished tolerance on the part of the patient. Serious adverse experiences are generally systemic in nature. The following types are those most commonly reported:
 6.1 Central nervous system: CNS manifestations of Lidocaine toxicity are excitatory and/or depression and arrest. The exitatory manifestations are by the evitatory for manifestations and be even brief or may not occur at all, in which case the first manifestation of toxicity may be drowsiness merging into unconsciousness, reprivative depression and arrest. The solution of a high blood level of the drug and may occur as a consequence of rapid absorption.
 6.2 Cardiovascular system: Cardiovascular rustications of Lidocaine toxicity are usually depressant and are characterized by bradycardia, hypotension, autorust all, in which case the first manifestation of toxicity may be drowsiness merging into unconsciousness, respiratory depressant and are statisticated and any occur as a consequence of rapid absorption.
 6.2 Cardiovascular system: Cardiovascular rustications are characterized by tradycardia, hypotension, and cardiovascular collapse, which may lead to cardiac arrest.
 6.3 Allergic: Allergic: reactions are characterized by cuaneous lesions, urticaria, edema or anaphylactoid reactions may occur as a result of sensitivity by skin testing is of doubtful value.

Drug Interactions:
 7.1 Serious Interactions: Antiarrhythmic Drugs: Astero® should be used with caution in patients receiving Class I antiarrhythmic drugs (such as tocainide and mexiletine) since the toxic effects are additive and potentially synergistic. Bupivacaine liposome: Lidocaine Hydrochloride USP increases effects of dofetilide through pharmacodynamic synergism. Lomitapide: Lidocaine Hydrochloride USP increases effects of dofetilide through pharmacodynamic synergism. Lomitapide: Lidocaine Hydrochloride USP increases elvels of lomitapide by affecting hepatic/intestinal enzymes (YP3A4 metabolism.
 7.2 General interactions: Drugs that affect hepatic CYP1A2 enzyme; (ex. Antipsychotics, SSRIs, TCAs, many chemotherapeutics, calcium channel blockers, benzodiazepines) Lidocaine Hydrochloride USP may increase serum levels of many drugs metabolism by CYP1A2 enzyme; (ex. Quinolone antibiotics, cimetidine, barbiturates, benzodiazepines, erythromycin) May increase serum Lidocaine Hydrochloride USP levels by decreasing Lidocaine Hydrochloride USP metabolism by CYP1A2 enzyme.

8. Use in Specific Populations

See in Specific Populations: 8.1 Use in Pregnancy: Teratogenic Effects of Lidocaine Hydrochloride USP. Pregnancy Category B. Reproduction studies have been performed in rats at doses up to 6.6 times the human dose and have revealed no evidence of harm to the fetus caused by Lidocaine Hydrochloride USP. There are, however, no adequate and well-controlled studies in pregnant women. Animal reproduction studies are not always predictive of human response. General consideration should be given to this fact before administering Lidocaine Hydrochloride USP to women of childbearing potential, especially during early pregnancy when maximum organogenesis takes place. 8.2 Labor and Delivery: Lidocaine Hydrochloride USP is not contraindicated in labor and delivery. Should Astero[®] be used concomitantly with other products containing Lidocaine Hydrochloride USP, the total dose contributed by all formulations must be kept in mind. 8.3 Norsing Mothers: It is not known whether this drug is excreted in human milk, Because many drugs are excreted in human milk, caution should be exercised when Lidocaine Hydrochloride USP is administered to a nursing woman. 8.4 Pediatric use: Doosge in children should be reduced, commensurate with age, body weight and physical condition. Caution must be taken to avoid over dosage when applying Astero[®] to large areas of injured or abraded skin, since the systemic absorption of Lidocaine Hydrochloride USP may be increased under such conditions. Do not use on children under 2 unless directed by a physical. 8.5 Genatric use: No wereal (Inicial differences is native or effectiveness Fave been been been been been been the head under adult natients.

8.5 Geriatric use: No overall clinical differences in safety or effectiveness have been observed between the healthy elderly and other adult patients.

9. Over Dosage: Acute emergencies from local anesthetics are generally related to high plasma levels encountered during therapeutic use of local anesthetics. (see ADVERSE REACTIONS, WARNINGS, and PRECAUTIONS) ---9.1 Management of local anesthetic emergencies: The first consideration is prevention, best accomplished by careful and constant monitoring of cardiovascular and respiratory vital signs and the patient's state of consciousness after each local anesthetic administration. At the first sign of change, oxygen should be administered. The first step in the management of convulsions consists of immediate attention to the maintenance of a patent airway and assisted or controlled ventilation with oxygen and adelivery system capable of permitting immediate positive airway pressure by mask. Immediately patent the institution of these ventilatory mesusces, the adequacy of the circulation should be evaluated, keeping in mind that drugs used to treat convulsions sometimes depress the circulation with see anticonvulses. Should be familitary in a support, and if the status of the circulation and trues-short acting barbiturate (such as thiopental or thiamyal) or a benzofilaszpine (such as diazepam) may be administered intravenously. The clinician should be evaluated, weeping evaluated intervenous fully and activation on their ventilitation in the status of the circulation with reation and drugs. Support, and if the status of the circulation ventile reative reative evaluated intervenous fully and a state and convulsions and cardioxascular durgs. Support, the reative reative and circulatory developments of an ultra-short acting barbiturate (such as thiopental or thiamyal) or a benzofilaszpine (such as diazepam) may be administered intravenously. The clinician should be familiaritation on firtreated immediately, both convulsions and cardioxascular depression can result in hypoxia, acidosis, bradycardia, arrhythmias and cardia arrest. If cardia arrest should occur, standard devalue are evalued advecare should be familit is of negligible value in the treatment of acute over dosage with Lidocaine Hydrochloride USP. The oral LD50 of Lidocaine HCI USP in non-fasted female rats is 459 (346-773) mg/kg (as the salt) and 214 (159-324) mg/kg (as the salt) in fasted female rats.

10. Description:

To 1.1 Active Ingredients: Each gram of Astero® contains Lidocaine Hydrochloride USP 4% (40 mg). Lidocaine Hydrochloride USP is chemically designated as acetamide, 2- (diethylamino)-N-(2,6-dimethylphenyl), and has the following structure: To 2. Inactive Ingredients: Polyethylene Glycol(PEG) 400 & Polyethylene Glycol 3350 as base, Oak Extract, Meadowsweet Extract, Zinc Acetate, and Water.

11. Clinical Pharmacology

сн Clinical Pharmacology: CH₃ 11.1 Mechanism of action: Astero®, when applied to wounds, provides for analgesia by the release of lidocaine from the gel into the epidermal and dermal layers of the skin and by the accumulation of lidocaine in the vicinity of dermal pain receptors and nerve endings. Astero® is a hydrated polymer (Hydrogel) wound dressing containing 4% w/w Lidocaine HCI USP. By providing moisture to the wound, Astero® creates a moist healing environment, which promotes granulation, epithelialization, and autolytic debridement. The high water content of hydrogel dressings cools the wound, producing pain relief that can last up to 6 hours. Dressing-change discomfort is also reduced because Astero® doesn't adhere to the wound surface. Astero® three sets indicate Hydrochoride USP from the Neutral (pH 7-2) Hydrogel to stabilize the neuronal membrane by inhibiting the ionic fluxes required for initiation and conduction of impulses, thereby effecting local anesthetic action. **112 Onset of anesthesis:** Astero® fields the neuronal membrane by inhibiting the ionic fluxes required for initiation and conduction of impulses, thereby effects local, topical anesthesia. The onset of action is 3-5 minutes.

11.2 Conset of anesthesia: Astero® effects local, topical anesthesia. The onset of action is 3-5 minutes. 11.3 Hemodynamics: Excessive blood levels may cause changes in cardiac output, total peripheral resistance, and mean arterial pressure. These changes may be attributable to a direct depressant effect of the local anesthetic agent on various components of the cardiovascular system. 11.4 Pharmacokinetics and metabolism: Lidocaine Hydrochloride USP may be absorbed following topical administration to mucous membranes or open wounds, its rate and extent of absorption depending upon the specific site of application, duration of exposure, concentration, and total dosage. Lidocaine Hydrochloride USP is also well-absorbed from the gastrointestinal tract, but little intact drug appears in the circulation because of biotransformation in the liver. Lidocaine Hydrochloride USP is metabolites and unchanged drug are excreted by the kidneys. Biotransformation, yields the metabolites moneethylgichinesylidide and glycinesylidide. The pharmacological/toxicological actions of these metabolites in to first or the form of various metabolites, and less than 10% is excreted unchanged. The primary metabolite in urine is a conjugate of 4-hydroxy-2-cd-dimethylaniline. The plasma binding of Lidocaine Hydrochloride USP and plasma bioting or lidocaine Hydrochloride USP administered is excreted in the form of various metabolites, and less than 10% is excreted base per ml, 60 to 80 percent of Lidocaine Hydrochloride USP is protein bound. Binding is also dependent on the elisant is agent is typically 1.5 to 2.0 hours. Because of the rapid rate are which Lidocaine Hydrochloride USP is metabolites and placentabolites or the alpha-la-ad glycoprotein. Lidocaine Hydrochloride USP kinetics, and placentabolites and placentabolites are similar on that affects liver function private the alpha-la-ad glycoprotein. Lidocaine Hydrochloride USP is protein and placentabolites are similar on that affects liver function private the alpha-la-ad gly

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12. Non-Clinical Toxicity: Studies of Lidocaine Hydrochloride USP in animals to evaluate the carcinogenic and mutagenic potential or the effect on fertility have not been conducted.

13. How Supplied / Storage and Handling:

13 more suppress values and name. HOW SUPPLED: Astero'' (Medicated Hydrogel containing: Lidocaine HCI USP 4%) | 1.00z (28.5g) 30mL Airless Pump - NDC 35781-2500-3 STORE AND DISPOSE OF THIS AND ALL MEDICATIONS OUT OF REACH OF CHILDREN AND PETS. All prescriptions using this product shall be pursuant to state statutes as applicable. This product may be administered only under a physician's supervision. There are no implied or explicit claims on the threarpeutic equivalence. Store at 25°C(77°); Exercisions constroled to 15°-30°C (5°)-86° Ph. See USP Controlled Room Temperature. Protect from freezing.