

LIDOCAINE HYDROCHLORIDE- lidocaine hydrochloride injection, solution
Hospira, Inc.

**Lidocaine Hydrochloride
Injection, USP**

**AQUEOUS SOLUTIONS FOR
INFILTRATION AND NERVE BLOCK**

Ampul

Plastic Multiple-dose Fliptop Vial

Glass Teartop Vial

Rx only

DESCRIPTION

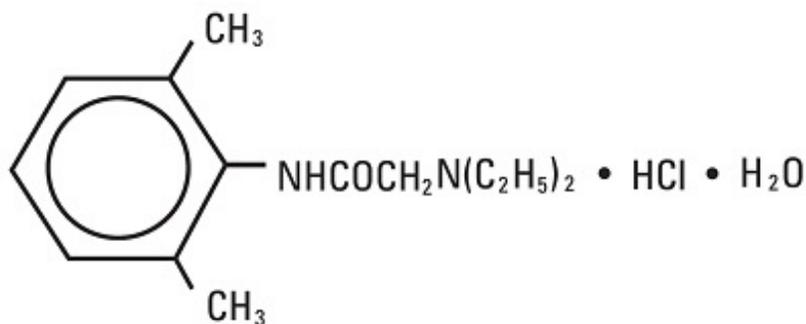
Lidocaine Hydrochloride Injection, USP is a sterile, nonpyrogenic solution of lidocaine hydrochloride in water for injection for parenteral administration in various concentrations with characteristics as follows:

Concentration	0.5%	1%	1.5%	2%
mg/mL lidocaine HCl (anhyd.)	5	10	15	20
mg/mL sodium chloride	8	7	6.5	6

Multiple-dose vials contain 0.1% of methylparaben added as preservative. May contain sodium hydroxide and/or hydrochloric acid for pH adjustment. The pH is 6.5 (5.0 to 7.0). See **HOW SUPPLIED** section for various sizes and strengths.

Lidocaine is a local anesthetic of the amide type.

Lidocaine Hydrochloride, USP is chemically designated 2-(diethylamino)-N-(2,6-dimethylphenyl)-acetamide monohydrochloride monohydrate, a white powder freely soluble in water. The molecular weight is 288.82. It has the following structural formula:



The semi-rigid vial used for the plastic vials is fabricated from a specially formulated polyolefin. It is a copolymer of ethylene and propylene. The safety of the plastic has been confirmed by tests in animals according to USP biological standards for plastic containers. The container requires no vapor barrier to maintain the proper drug concentration.

CLINICAL PHARMACOLOGY

Mechanism of Action

Lidocaine HCl stabilizes the neuronal membrane by inhibiting the ionic fluxes required for the initiation and conduction of impulses thereby effecting local anesthetic action.

Hemodynamics

Excessive blood levels may cause changes in cardiac output, total peripheral resistance, and mean arterial pressure. With central neural blockade these changes may be attributable to block of autonomic fibers, a direct depressant effect of the local anesthetic agent on various components of the cardiovascular system, and/or the beta-adrenergic receptor stimulating action of epinephrine when present. The net effect is normally a modest hypotension when the recommended dosages are not exceeded.

Pharmacokinetics and Metabolism

Information derived from diverse formulations, concentrations and usages reveals that lidocaine HCl is completely absorbed following parenteral administration, its rate of absorption depending, for example, upon various factors such as the site of administration and the presence or absence of a vasoconstrictor agent. Except for intravascular administration, the highest blood levels are obtained following intercostal nerve block and the lowest after subcutaneous administration.

The plasma binding of lidocaine HCl is dependent on drug concentration, and the fraction bound decreases with increasing concentration. At concentrations of 1 to 4 mcg of free base per mL 60 to 80 percent of lidocaine HCl is protein bound. Binding is also dependent on the plasma concentration of the alpha-1-acid glycoprotein.

Lidocaine HCl crosses the blood-brain and placental barriers, presumably by passive diffusion.

Lidocaine HCl is metabolized rapidly by the liver, and metabolites and unchanged drug are excreted by the kidneys. Biotransformation includes oxidative N-dealkylation, ring hydroxylation, cleavage of the amide linkage, and conjugation. N-dealkylation, a major pathway of biotransformation, yields the metabolites monoethylglycinexylidide and glycinexylidide. The pharmacological/toxicological actions of these metabolites are similar to, but less potent than, those of lidocaine HCl. Approximately 90% of lidocaine HCl administered is excreted in the form of various metabolites, and less than 10% is excreted unchanged. The primary metabolite in urine is a conjugate of 4-hydroxy-2,6-dimethylaniline.

The elimination half-life of lidocaine HCl following an intravenous bolus injection is typically 1.5 to 2 hours. Because of the rapid rate at which lidocaine HCl is metabolized, any condition that affects liver function may alter lidocaine HCl kinetics. The half-life may be prolonged two-fold or more in patients with liver dysfunction. Renal dysfunction does not affect lidocaine HCl kinetics but may increase the accumulation of metabolites.

Factors such as acidosis and the use of CNS stimulants and depressants affect the CNS levels of lidocaine HCl required to produce overt systemic effects. Objective adverse manifestations become increasingly apparent with increasing venous plasma levels above 6 mcg free base per mL. In the rhesus monkey arterial blood levels of 18 to 21 mcg/mL have been shown to be threshold for convulsive activity.

INDICATIONS AND USAGE

Lidocaine Hydrochloride Injection, USP is indicated for production of local or regional anesthesia by infiltration techniques such as percutaneous injection and intravenous regional anesthesia by peripheral nerve block techniques such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks, when the accepted procedures for these techniques as described in standard textbooks are observed.

CONTRAINDICATIONS

Lidocaine HCl is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type.

WARNINGS

LIDOCAINE HYDROCHLORIDE INJECTION, FOR INFILTRATION AND NERVE BLOCK, SHOULD BE EMPLOYED ONLY BY CLINICIANS WHO ARE WELL VERSED IN DIAGNOSIS AND MANAGEMENT OF DOSE-RELATED TOXICITY AND OTHER ACUTE EMERGENCIES THAT MIGHT ARISE FROM THE BLOCK TO BE EMPLOYED AND THEN ONLY AFTER ENSURING THE **IMMEDIATE** AVAILABILITY OF OXYGEN, OTHER RESUSCITATIVE DRUGS, CARDIOPULMONARY EQUIPMENT AND THE PERSONNEL NEEDED FOR PROPER MANAGEMENT OF TOXIC REACTIONS AND RELATED EMERGENCIES (see also **ADVERSE REACTIONS** and **PRECAUTIONS**). DELAY IN PROPER MANAGEMENT OF DOSE-RELATED TOXICITY, UNDERVENTILATION FROM ANY CAUSE AND/OR ALTERED SENSITIVITY MAY LEAD TO THE DEVELOPMENT OF ACIDOSIS, CARDIAC ARREST AND, POSSIBLY, DEATH.

Methemoglobinemia

Cases of methemoglobinemia have been reported in association with local anesthetic use. Although all patients are at risk for methemoglobinemia, patients with glucose-6-phosphate dehydrogenase deficiency, congenital or idiopathic methemoglobinemia, cardiac or pulmonary compromise, infants under 6 months of age, and concurrent exposure to oxidizing agents or their metabolites are more susceptible to developing clinical manifestations of the condition. If local anesthetics must be used in these patients, close monitoring for symptoms and signs of methemoglobinemia is recommended.

Signs of methemoglobinemia may occur immediately or may be delayed some hours after exposure, and are characterized by a cyanotic skin discoloration and/or abnormal coloration of the blood.

Methemoglobin levels may continue to rise; therefore, immediate treatment is required to avert more serious central nervous system and cardiovascular adverse effects, including seizures, coma, arrhythmias, and death.

Discontinue lidocaine hydrochloride and any other oxidizing agents. Depending on the severity of the signs and symptoms, patients may respond to supportive care, i.e., oxygen therapy, hydration. A more severe clinical presentation may require treatment with methylene blue, exchange transfusion, or hyperbaric oxygen.

Intra-articular infusions of local anesthetics following arthroscopic and other surgical procedures is an unapproved use, and there have been post-marketing reports of chondrolysis in patients receiving such infusions. The majority of reported cases of chondrolysis have involved the shoulder joint; cases of gleno-humeral chondrolysis have been described in pediatric and adult patients following intra-articular infusions of local anesthetics with and without epinephrine for periods of 48 to 72 hours. There is insufficient information to determine whether shorter infusion periods are not associated with these findings. The time of onset of symptoms, such as joint pain, stiffness and loss of motion can be variable, but may begin as early as the 2nd month after surgery. Currently, there is no effective treatment for chondrolysis; patients who experienced chondrolysis have required additional diagnostic and therapeutic procedures and some required arthroplasty or shoulder replacement.

To avoid intravascular injection, aspiration should be performed before the local anesthetic solution is injected. The needle must be repositioned until no return of blood can be elicited by aspiration. Note, however, that the absence of blood in the syringe does not guarantee that intravascular injection has been avoided.

Local anesthetic solutions containing antimicrobial preservatives (e.g., methylparaben) should not be used for epidural or spinal anesthesia because the safety of these agents has not been established with

regard to intrathecal injection, either intentional or accidental.

Anaphylactic reactions may occur following administration of lidocaine hydrochloride (see **ADVERSE REACTIONS**).

In the case of severe reaction, discontinue the use of the drug.

PRECAUTIONS

General

The safety and effectiveness of lidocaine HCl depend on proper dosage, correct technique, adequate precautions, and readiness for emergencies. Standard textbooks should be consulted for specific techniques and precautions for various regional anesthetic procedures.

Resuscitative equipment, oxygen, and other resuscitative drugs should be available for immediate use (see **WARNINGS** and **ADVERSE REACTIONS**). The lowest dosage that results in effective anesthesia should be used to avoid high plasma levels and serious adverse effects. Syringe aspirations should also be performed before and during each supplemental injection when using indwelling catheter techniques. During the administration of epidural anesthesia, it is recommended that a test dose be administered initially and that the patient be monitored for central nervous system toxicity and cardiovascular toxicity, as well as for signs of unintended intrathecal administration, before proceeding. When clinical conditions permit, consideration should be given to employing local anesthetic solutions that contain epinephrine for the test dose because circulatory changes compatible with epinephrine may also serve as a warning sign of unintended intravascular injection. An intravascular injection is still possible even if aspirations for blood are negative. Repeated doses of lidocaine HCl may cause significant increases in blood levels with each repeated dose because of slow accumulation of the drug or its metabolites. Tolerance to elevated blood levels varies with the status of the patient. Debilitated, elderly patients, acutely ill patients, and children should be given reduced doses commensurate with their age and physical condition. Lidocaine HCl should also be used with caution in patients with severe shock or heart block. Lumbar and caudal epidural anesthesia should be used with extreme caution in persons with the following conditions: existing neurological disease, spinal deformities, septicemia, and severe hypertension.

Local anesthetic solutions containing a vasoconstrictor should be used cautiously and in carefully circumscribed quantities in areas of the body supplied by end arteries or having otherwise compromised blood supply. Patients with peripheral vascular disease and those with hypertensive vascular disease may exhibit exaggerated vasoconstrictor response. Ischemic injury or necrosis may result. Preparations containing a vasoconstrictor should be used with caution in patients during or following the administration of potent general anesthetic agents, since cardiac arrhythmias may occur under such conditions.

Careful and constant monitoring of cardiovascular and respiratory (adequacy of ventilation) vital signs and the patient's state of consciousness should be accomplished after each local anesthetic injection. It should be kept in mind at such times that restlessness, anxiety, tinnitus, dizziness, blurred vision, tremors, depression or drowsiness may be early warning signs of central nervous system toxicity.

Since amide-type local anesthetics are metabolized by the liver, lidocaine should be used with caution in patients with hepatic disease. Patients with severe hepatic disease, because of their inability to metabolize local anesthetics normally, are at greater risk of developing toxic plasma concentrations. Lidocaine should also be used with caution in patients with impaired cardiovascular function since they may be less able to compensate for functional changes associated with the prolongation of A-V conduction produced by these drugs. Many drugs used during the conduct of anesthesia are considered potential triggering agents for familial malignant hyperthermia. Since it is not known whether amide-type local anesthetics may trigger this reaction and since the need for supplemental general anesthesia cannot be predicted in advance, it is suggested that a standard protocol for the management of malignant

hyperthermia should be available. Early unexplained signs of tachycardia, tachypnea, labile blood pressure and metabolic acidosis may precede temperature elevation. Successful outcome is dependent on early diagnosis, prompt discontinuance of the suspect triggering agent(s) and institution of treatment, including oxygen therapy, indicated supportive measures and dantrolene (consult dantrolene sodium intravenous package insert before using).

Proper tourniquet technique, as described in publications and standard textbooks, is essential in the performance of intravenous regional anesthesia. Solutions containing epinephrine or other vasoconstrictors should not be used for this technique.

Lidocaine HCl should be used with caution in persons with known drug sensitivities. Patients allergic to para-aminobenzoic acid derivatives (procaine, tetracaine, benzocaine, etc.) have not shown cross-sensitivity to lidocaine HCl.

Use in the Head and Neck Area

Small doses of local anesthetics injected into the head and neck area, including retrobulbar, dental and stellate ganglion blocks, may produce adverse reactions similar to systemic toxicity seen with unintentional intravascular injections of larger doses. Confusion, convulsions, respiratory depression and/or respiratory arrest, and cardiovascular stimulation or depression have been reported. These reactions may be due to intra-arterial injections of the local anesthetic with retrograde flow to the cerebral circulation. Patients receiving these blocks should have their circulation and respiration monitored and be constantly observed. Resuscitative equipment and personnel for treating adverse reactions should be immediately available. Dosage recommendations should not be exceeded (see **DOSAGE AND ADMINISTRATION**).

Information for Patients

When appropriate, patients should be informed in advance that they may experience temporary loss of sensation and motor activity, usually in the lower half of the body, following proper administration of epidural anesthesia.

Inform patients that use of local anesthetics may cause methemoglobinemia, a serious condition that must be treated promptly. Advise patients or caregivers to seek immediate medical attention if they or someone in their care experience the following signs or symptoms: pale, gray, or blue colored skin (cyanosis); headache; rapid heart rate; shortness of breath; lightheadedness; or fatigue.

Clinically Significant Drug Interactions

The administration of local anesthetic solutions containing epinephrine or norepinephrine to patients receiving monoamine oxidase inhibitors or tricyclic anti-depressants may produce severe, prolonged hypertension.

Phenothiazines and butyrophenones may reduce or reverse the pressor effect of epinephrine.

Concurrent use of these agents should generally be avoided. In situations when concurrent therapy is necessary, careful patient monitoring is essential.

Concurrent administration of vasopressor drugs (for the treatment of hypotension related to obstetric blocks) and ergot-type oxytocic drugs may cause severe, persistent hypertension or cerebrovascular accidents.

Drug/Laboratory Test Interactions

The intramuscular injection of lidocaine HCl may result in an increase in creatine phosphokinase levels. Thus, the use of this enzyme determination, without isoenzyme separation, as a diagnostic test for the presence of acute myocardial infarction may be compromised by the intramuscular injection of lidocaine HCl.

Patients who are administered local anesthetics are at increased risk of developing methemoglobinemia

when concurrently exposed to the following drugs, which could include other local anesthetics:

Examples of Drugs Associated with Methemoglobinemia:

Class	Examples
Nitrates/Nitrites	nitric oxide, nitroglycerin, nitroprusside, nitrous oxide
Local anesthetics	articaine, benzocaine, bupivacaine, lidocaine, mepivacaine, prilocaine, procaine, ropivacaine, tetracaine
Antineoplastic agents	cyclophosphamide, flutamide, hydroxyurea, ifosfamide, rasburicase
Antibiotics	dapsone, nitrofurantoin, para-aminosalicylic acid, sulfonamides
Antimalarials	chloroquine, primaquine
Anticonvulsants	phenobarbital, phenytoin, sodium valproate
Other drugs	acetaminophen, metoclopramide, quinine, sulfasalazine

Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies of lidocaine HCl in animals to evaluate the carcinogenic and mutagenic potential or the effect on fertility have not been conducted.

Pregnancy

Teratogenic Effects

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 HCl. 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 HCl to women of childbearing potential, especially during early pregnancy when maximum organogenesis takes place.

Labor and Delivery

Local anesthetics rapidly cross the placenta and when used for epidural, paracervical, pudendal or caudal block anesthesia, can cause varying degrees of maternal, fetal and neonatal toxicity (see **CLINICAL PHARMACOLOGY, Pharmacokinetics and Metabolism**). The potential for toxicity depends upon the procedure performed, the type and amount of drug used, and the technique of drug administration. Adverse reactions in the parturient, fetus and neonate involve alterations of the central nervous system, peripheral vascular tone and cardiac function.

Maternal hypotension has resulted from regional anesthesia. Local anesthetics produce vasodilation by blocking sympathetic nerves. Elevating the patient's legs and positioning her on her left side will help prevent decreases in blood pressure. The fetal heart rate also should be monitored continuously, and electronic fetal monitoring is highly advisable.

Epidural, spinal, paracervical, or pudendal anesthesia may alter the forces of parturition through changes in uterine contractility or maternal expulsive efforts. In one study, paracervical block anesthesia was associated with a decrease in the mean duration of first stage labor and facilitation of cervical dilation. However, spinal and epidural anesthesia have also been reported to prolong the second stage of labor by removing the parturient's reflex urge to bear down or by interfering with motor function. The use of obstetrical anesthesia may increase the need for forceps assistance.

The use of some local anesthetic drug products during labor and delivery may be followed by diminished muscle strength and tone for the first day or two of life. The long-term significance of these observations is unknown. Fetal bradycardia may occur in 20 to 30 percent of patients receiving

paracervical nerve block anesthesia with the amide-type local anesthetics and may be associated with fetal acidosis. Fetal heart rate should always be monitored during paracervical anesthesia. The physician should weigh the possible advantages against risks when considering a paracervical block in prematurity, toxemia of pregnancy, and fetal distress. Careful adherence to recommended dosage is of the utmost importance in obstetrical paracervical block. Failure to achieve adequate analgesia with recommended doses should arouse suspicion of intravascular or fetal intracranial injection. Cases compatible with unintended fetal intracranial injection of local anesthetic solution have been reported following intended paracervical or pudendal block or both. Babies so affected present with unexplained neonatal depression at birth, which correlates with high local anesthetic serum levels, and often manifest seizures within six hours. Prompt use of supportive measures combined with forced urinary excretion of the local anesthetic has been used successfully to manage this complication.

Case reports of maternal convulsions and cardiovascular collapse following use of some local anesthetics for paracervical block in early pregnancy (as anesthesia for elective abortion) suggest that systemic absorption under these circumstances may be rapid. The recommended maximum dose of each drug should not be exceeded. Injection should be made slowly and with frequent aspiration. Allow a 5-minute interval between sides.

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 HCl is administered to a nursing woman.

Pediatric Use

Dosages in children should be reduced, commensurate with age, body weight and physical condition (see **DOSAGE AND ADMINISTRATION**).

ADVERSE REACTIONS

Systemic

Adverse experiences following the administration of lidocaine HCl 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, rapid absorption or inadvertent intravascular injection, 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:

Central Nervous System

CNS manifestations are excitatory and/or depressant and may be characterized by lightheadedness, nervousness, apprehension, euphoria, confusion, dizziness, drowsiness, tinnitus, blurred or double vision, vomiting, sensations of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness, respiratory depression and arrest. The excitatory manifestations may be very brief or may not occur at all, in which case the first manifestation of toxicity may be drowsiness merging into unconsciousness and respiratory arrest.

Drowsiness following the administration of lidocaine HCl is usually an early sign of a high blood level of the drug and may occur as a consequence of rapid absorption.

Cardiovascular System

Cardiovascular manifestations are usually depressant and are characterized by bradycardia, hypotension, and cardiovascular collapse, which may lead to cardiac arrest.

Allergic

Allergic reactions are characterized by cutaneous lesions, urticaria, edema or anaphylactoid reactions. Allergic reactions may occur as a result of sensitivity either to local anesthetic agents or to the methylparaben used as a preservative in the multiple dose vials. Allergic reactions, including anaphylactic reactions, may occur as a result of sensitivity to lidocaine, but are infrequent. If allergic reactions do occur, they should be managed by conventional means. The detection of sensitivity by skin testing is of doubtful value.

There have been no reports of cross sensitivity between lidocaine hydrochloride and procainamide or between lidocaine hydrochloride and quinidine.

Neurologic

The incidences of adverse reactions associated with the use of local anesthetics may be related to the total dose of local anesthetic administered and are also dependent upon the particular drug used, the route of administration and the physical status of the patient. In a prospective review of 10,440 patients who received lidocaine HCl for spinal anesthesia, the incidences of adverse reactions were reported to be about 3 percent each for positional headaches, hypotension and backache; 2 percent for shivering; and less than 1 percent each for peripheral nerve symptoms, nausea, respiratory inadequacy and double vision. Many of these observations may be related to local anesthetic techniques, with or without a contribution from the local anesthetic.

In the practice of caudal or lumbar epidural block, occasional unintentional penetration of the subarachnoid space by the catheter may occur. Subsequent adverse effects may depend partially on the amount of drug administered subdurally. These may include spinal block of varying magnitude (including total spinal block), hypotension secondary to spinal block, loss of bladder and bowel control, and loss of perineal sensation and sexual function. Persistent motor, sensory and/or autonomic (sphincter control) deficit of some lower spinal segments with slow recovery (several months) or incomplete recovery have been reported in rare instances when caudal or lumbar epidural block has been attempted. Backache and headache have also been noted following use of these anesthetic procedures.

There have been reported cases of permanent injury to extraocular muscles requiring surgical repair following retrobulbar administration.

Hematologic

Methemoglobinemia.

OVERDOSAGE

Acute emergencies from local anesthetics are generally related to high plasma levels encountered during therapeutic use of local anesthetics or to unintended subarachnoid injection of local anesthetic solution (see **ADVERSE REACTIONS, WARNINGS, and PRECAUTIONS**).

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 injection. At the first sign of change, oxygen should be administered.

The first step in the management of convulsions, as well as underventilation or apnea due to unintended subarachnoid injection of drug solution, consists of immediate attention to the maintenance of a patent airway and assisted or controlled ventilation with oxygen and a delivery system capable of permitting immediate positive airway pressure by mask. Immediately after the institution of these ventilatory measures, the adequacy of the circulation should be evaluated, keeping in mind that drugs used to treat convulsions sometimes depress the circulation when administered intravenously. Should convulsions persist despite adequate respiratory support, and if the status of the circulation permits, small increments of an ultra-short acting barbiturate (such as thiopental or thiamylal) or a benzodiazepine (such as

diazepam) may be administered intravenously. The clinician should be familiar, prior to the use of local anesthetics, with these anticonvulsant drugs. Supportive treatment of circulatory depression may require administration of intravenous fluids and, when appropriate, a vasopressor as directed by the clinical situation (e.g., ephedrine).

If not treated immediately, both convulsions and cardiovascular depression can result in hypoxia, acidosis, bradycardia, arrhythmias and cardiac arrest. Underventilation or apnea due to unintentional subarachnoid injection of local anesthetic solution may produce these same signs and also lead to cardiac arrest if ventilatory support is not instituted. If cardiac arrest should occur, standard cardiopulmonary resuscitative measures should be instituted.

Endotracheal intubation, employing drugs and techniques familiar to the clinician, may be indicated, after initial administration of oxygen by mask, if difficulty is encountered in the maintenance of a patent airway or if prolonged ventilatory support (assisted or controlled) is indicated.

Dialysis is of negligible value in the treatment of acute overdosage with lidocaine HCl.

The oral LD₅₀ of lidocaine HCl in non-fasted female rats is 459 (346 to 773) mg/kg (as the salt) and 214 (159 to 324) mg/kg (as the salt) in fasted female rats.

DOSAGE AND ADMINISTRATION

Table 1 (Recommended Dosages) summarizes the recommended volumes and concentrations of Lidocaine Hydrochloride Injection, USP for various types of anesthetic procedures. The dosages suggested in this table are for normal healthy adults and refer to the use of epinephrine-free solutions. When larger volumes are required, only solutions containing epinephrine should be used except in those cases where vasopressor drugs may be contraindicated.

There have been adverse event reports of chondrolysis in patients receiving intra-articular infusions of local anesthetics following arthroscopic and other surgical procedures. Lidocaine is not approved for this use (see **WARNINGS** and **DOSAGE AND ADMINISTRATION**).

These recommended doses serve only as a guide to the amount of anesthetic required for most routine procedures. The actual volumes and concentrations to be used depend on a number of factors such as type and extent of surgical procedure, depth of anesthesia and degree of muscular relaxation required, duration of anesthesia required, and the physical condition of the patient. In all cases the lowest concentration and smallest dose that will produce the desired result should be given. Dosages should be reduced for children and for the elderly and debilitated patients and patients with cardiac and/or liver disease.

The onset of anesthesia, the duration of anesthesia and the degree of muscular relaxation are proportional to the volume and concentration (i.e., total dose) of local anesthetic used. Thus, an increase in volume and concentration of Lidocaine Hydrochloride Injection will decrease the onset of anesthesia, prolong the duration of anesthesia, provide a greater degree of muscular relaxation and increase the segmental spread of anesthesia. However, increasing the volume and concentration of Lidocaine Hydrochloride Injection may result in a more profound fall in blood pressure when used in epidural anesthesia. Although the incidence of side effects with lidocaine HCl is quite low, caution should be exercised when employing large volumes and concentrations, since the incidence of side effects is directly proportional to the total dose of local anesthetic agent injected.

For intravenous regional anesthesia, only the 50 mL single-dose vial containing 0.5% Lidocaine Hydrochloride Injection, USP should be used.

Epidural Anesthesia

For epidural anesthesia, only the following available specific products of Lidocaine Hydrochloride Injection by Hospira are recommended:

1%	30 mL single-dose teartop vials
1.5%	20 mL single-dose ampuls
2%	10 mL single-dose ampuls

Although these solutions are intended specifically for epidural anesthesia, they may also be used for infiltration and peripheral nerve block, provided they are employed as single dose units. These solutions contain no bacteriostatic agent.

In epidural anesthesia, the dosage varies with the number of dermatomes to be anesthetized (generally 2 to 3 mL of the indicated concentration per dermatome).

Caudal and Lumbar Epidural Block

As a precaution against the adverse experience sometimes observed following unintentional penetration of the subarachnoid space, a test dose such as 2 to 3 mL of 1.5% lidocaine HCl should be administered at least 5 minutes prior to injecting the total volume required for a lumbar or caudal epidural block. The test dose should be repeated if the patient is moved in a manner that may have displaced the catheter. Epinephrine, if contained in the test dose (10 to 15 mcg have been suggested), may serve as a warning of unintentional intravascular injection. If injected into a blood vessel, this amount of epinephrine is likely to produce a transient "epinephrine response" within 45 seconds, consisting of an increase in heart rate and systolic blood pressure, circumoral pallor, palpitations and nervousness in the unsedated patient. The sedated patient may exhibit only a pulse rate increase of 20 or more beats per minute for 15 or more seconds. Patients on beta-blockers may not manifest changes in heart rate, but blood pressure monitoring can detect an evanescent rise in systolic blood pressure. Adequate time should be allowed for onset of anesthesia after administration of each test dose. The rapid injection of a large volume of Lidocaine Hydrochloride Injection through the catheter should be avoided, and, when feasible, fractional doses should be administered.

In the event of the known injection of a large volume of local anesthetic solution into the subarachnoid space, after suitable resuscitation and if the catheter is in place, consider attempting the recovery of drug by draining a moderate amount of cerebrospinal fluid (such as 10 mL) through the epidural catheter.

Maximum Recommended Dosages

NOTE: The products accompanying this insert do not contain epinephrine.

Adults

For normal healthy adults, the individual maximum recommended dose of lidocaine HCl with epinephrine should not exceed 7 mg/kg (3.5 mg/lb) of body weight, and in general it is recommended that the maximum total dose not exceed 500 mg. When used without epinephrine the maximum individual dose should not exceed 4.5 mg/kg (2 mg/lb) of body weight, and in general it is recommended that the maximum total dose does not exceed 300 mg. For continuous epidural or caudal anesthesia, the maximum recommended dosage should not be administered at intervals of less than 90 minutes. When continuous lumbar or caudal epidural anesthesia is used for non-obstetrical procedures, more drug may be administered if required to produce adequate anesthesia.

The maximum recommended dose per 90 minute period of lidocaine hydrochloride for paracervical block in obstetrical patients and non-obstetrical patients is 200 mg total. One-half of the total dose is usually administered to each side. Inject slowly, five minutes between sides (see also discussion of paracervical block in **PRECAUTIONS**).

For intravenous regional anesthesia, the dose administered should not exceed 4 mg/kg in adults.

Children

It is difficult to recommend a maximum dose of any drug for children, since this varies as a function of age and weight. For children over 3 years of age who have a normal lean body mass and normal body development, the maximum dose is determined by the child's age and weight. For example, in a child of 5 years weighing 50 lbs the dose of lidocaine HCl should not exceed 75 to 100 mg (1.5 to 2 mg/lb). The use of even more dilute solutions (i.e., 0.25 to 0.5%) and total dosages not to exceed 3 mg/kg (1.4 mg/lb) are recommended for induction of intravenous regional anesthesia in children.

In order to guard against systemic toxicity, the lowest effective concentration and lowest effective dose should be used at all times. In some cases it will be necessary to dilute available concentrations with 0.9% sodium chloride injection in order to obtain the required final concentration.

NOTE: Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever the solution and container permit. Solutions that are discolored and/or contain particulate matter should not be used.

Table 1 Recommended Dosages

Procedure	Lidocaine Hydrochloride Injection, USP (without Epinephrine)		
	Conc. (%)	Vol. (mL)	Total Dose (mg)
<i>Infiltration</i>			
Percutaneous	0.5 or 1	1 to 60	5 to 300
Intravenous regional	0.5	10 to 60	50 to 300
<i>Peripheral Nerve Blocks, e.g.</i>			
Brachial	1.5	15 to 20	225 to 300
Dental	2	1 to 5	20 to 100
Intercostal	1	3	30
Paravertebral	1	3 to 5	30 to 50
Pudendal (each side)	1	10	100
Paracervical			
Obstetrical analgesia (each side)	1	10	100
<i>Sympathetic Nerve Blocks, e.g.</i>			
Cervical (stellate ganglion)	1	5	50
Lumbar	1	5 to 10	50 to 100
<i>Central Neural Blocks</i>			
<i>Epidural*</i>			
Thoracic	1	20 to 30	200 to 300
Lumbar			
Analgesia	1	25 to 30	250 to 300
Anesthesia	1.5	15 to 20	225 to 300
	2	10 to 15	200 to 300
<i>Caudal</i>			
Obstetrical analgesia	1	20 to 30	200 to 300
Surgical anesthesia	1.5	15 to 20	225 to 300

* Dose determined by number of dermatomes to be anesthetized (2 to 3 mL/dermatome).

THE ABOVE SUGGESTED CONCENTRATIONS AND VOLUMES SERVE ONLY AS A GUIDE. OTHER VOLUMES AND CONCENTRATIONS MAY BE USED PROVIDED THE TOTAL MAXIMUM RECOMMENDED DOSE IS NOT EXCEEDED.

Sterilization, Storage and Technical Procedures

Disinfecting agents containing heavy metals, which cause release of respective ions (mercury, zinc, copper, etc.) should not be used for skin or mucous membrane disinfection as they have been related to incidents of swelling and edema. When chemical disinfection of multi-dose vials is desired, either isopropyl alcohol (91%) or ethyl alcohol (70%) is recommended. Many commercially available brands of rubbing alcohol, as well as solutions of ethyl alcohol not of USP grade, contain denaturants which are injurious to rubber and therefore are not to be used. It is recommended that chemical disinfection be accomplished by wiping the vial stopper thoroughly with cotton or gauze that has been moistened with the recommended alcohol just prior to use.

HOW SUPPLIED

Lidocaine Hydrochloride Injection, USP is supplied as follows:

Unit of Sale	Concentration
NDC 0409-4278-01 Tray of 25 Glass Teartop Vials	0.5% 250 mg/50 mL (5 mg/mL)
NDC 0409-4713-62 Case of 800 Glass Ampuls	1% 20 mg/2 mL (10 mg/mL)
NDC 0409-4713-65 Case of 800 Glass Ampuls	1% 50 mg/5 mL (10 mg/mL)
NDC 0409-4279-02 Tray of 25 Glass Teartop Vials	1% 300 mg/30 mL (10 mg/mL)
NDC 0409-4776-01 Carton of 25 Glass Ampuls	1.5% 300 mg/20 mL (15 mg/mL)
NDC 0409-4282-02 Carton of 25 Glass Ampuls	2% 200 mg/10 mL (20 mg/mL)

Unit of Sale	Concentration
NDC 0409-4713-02 Bundle of 5 clamcells containing 5 ampuls per clamcell	1% 50 mg/5 mL (10 mg/mL)
NDC 0409-4713-32 Bundle of 5 cartons containing 10 ampuls per carton	1% 20 mg/2 mL (10 mg/mL)
NDC 0409-4282-01 Bundle of 5 clamcells containing 5 ampuls per clamcell	2% 40 mg/2 mL (20mg/mL)

Unit of Sale	Concentration
NDC 0409-4275-01 Tray of 25 Plastic Fliptop Vials	0.5% 250 mg/50 mL (5 mg/mL)
	1%

NDC 0409-4276-01 Tray of 25 Plastic Fliptop Vials	200 mg/20 mL (10 mg/mL)
NDC 0409-4276-02 Tray of 25 Plastic Fliptop Vials	1% 500 mg/50 mL (10 mg/mL)
NDC 0409-4277-01 Tray of 25 Plastic Fliptop Vials	2% 400 mg/20 mL (20 mg/mL)
NDC 0409-4277-02 Tray of 25 Plastic Fliptop Vials	2% 1000 mg/50 mL (20 mg/mL)

Single-dose products are preservative-free.

Store at 20 to 25°C (68 to 77°F). [see USP Controlled Room Temperature.]

Lidocaine Hydrochloride Injection, USP solutions packaged in ampuls and glass teartop vials may be autoclaved one time only. Autoclave at 15 pounds pressure, 121°C (250°F) for 15 minutes. **DO NOT AUTOCLAVE PRODUCT IN PLASTIC VIALS.**

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

LAB-1118-4.0

02/2019

PRINCIPAL DISPLAY PANEL - 5 mL Ampule Label - NDC 0409-4713-12

5 mL

NDC 0409-4713-12

Preservative-Free

Rx only

1%

Lidocaine HCl

Injection, USP

50 mg/5 mL (10 mg/mL)

Dist. by Hospira, Inc.

Lake Forest, IL 60045 USA

RL-7440

LOT #-###-AA

EXP DMMMYYYY

5 mL

NDC 0409-4713-12

Preservative-Free

Rx only

1%

Lidocaine HCl

Injection, USP

50 mg/5 mL (10 mg/mL)

Dist. by Hospira, Inc.
Lake Forest, IL 60045 USA

FPO / 7.5 MII

RL-7440

LOT ##-###-AA

EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 5 mL Ampule Cello Pack Label

5 mL

Single-dose Ampuls

Rx only

NDC 0409-4713-26

Contains 5 of NDC 0409-4713-12

Preservative-Free

1%

Lidocaine HCl Inj., USP

50 mg/5 mL (10 mg/mL)

FOR INFILTRATION AND NERVE BLOCK INCLUDING EPIDURAL AND CAUDAL.

Each mL contains lidocaine hydrochloride, anhydrous 10 mg; sodium chloride 7 mg. May contain sodium hydroxide and/or hydrochloric acid for pH adjustment. pH 6.5 (5.0 to 7.0). 0.31 mOsmol/mL (calc).

Usual dosage: See insert. Discard unused portion.

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

Distributed by

Hospira, Inc., Lake Forest, IL 60045 USA

Hospira

RL-7439

LOT ##-###-AA

EXP DMMMYYYY

5 mL Single-dose Ampuls

Rx only NDC 0409-4713-26

Contains 5 of NDC 0409-4713-12

Preservative-Free

1% Lidocaine HCl Inj., USP
50 mg/5 mL (10 mg/mL)

**FOR INFILTRATION AND NERVE BLOCK INCLUDING
EPIDURAL AND CAUDAL.**

Each mL contains lidocaine hydrochloride, anhydrous 10 mg; sodium chloride 7 mg. May contain sodium hydroxide and/or hydrochloric acid for pH adjustment. pH 6.5 (5.0 to 7.0). 0.31 mOsmol/mL (calc).

Usual dosage: See insert. Discard unused portion.

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

RL-7439

LOT ##-###-AA
EXP DMMMYYYY



PRINCIPAL DISPLAY PANEL - 2 mL Ampule Label - NDC 0409-4713-72

PAA136897

2 mL

NDC 0409-4713-72

Preservative-Free

1%

Lidocaine HCl

Injection, USP

20 mg/2 mL

(10 mg/mL)

AP/DRUGS/08/2013

M.L.No. 08/VP/AP/2013/F/G

Distributed by Hospira, Inc.

Lake Forest, IL 60045 USA

Rx only



PRINCIPAL DISPLAY PANEL - 5 mL Ampule Label - NDC 0409-4713-75

5 mL
NDC 0409-4713-75

Preservative-Free

Rx only

1%
Lidocaine HCl
Injection, USP
50 mg/5 mL (10 mg/mL)

Dist. by Hospira, Inc.
Lake Forest, IL 60045 USA

RL-7441

LOT ##-###-AA
EXP DMMMYYYY

5 mL

NDC 0409-4713-75

Preservative-Free

Rx only

1%

Lidocaine HCl

Injection, USP

50 mg/5 mL (10 mg/mL)

Dist. by Hospira, Inc.
Lake Forest, IL 60045 USA

FPO / 7.5 MII

RL-7441

LOT ##-###-AA

EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 5 mL Ampule Label - RL-4825

RL - 4825

5 mL

NDC 0409-4713-75

Preservative-Free

1%

Lidocaine HCl

Injection, USP

50 mg/5 mL

(10 mg/mL)

Rx only

Hospira, Inc.

Lake Forest, IL 60045 USA

Hospira

RL - 4825



5 mL

NDC 0409-4713-75

Preservative-Free

1%	Lidocaine HCl
	Injection, USP
	50 mg/5 mL (10 mg/mL)

Rx only

Hospira, Inc.
Lake Forest, IL 60045 USA



PRINCIPAL DISPLAY PANEL - 2 mL Ampule Label - NDC 0409-4713-42

#####AA

DMMMYYYY

LOT

EXP

PAA118801

2 mL

NDC 0409-4713-42

Preservative-Free

Rx only

1%

Lidocaine HCl

Injection, USP

20 mg/2 mL

(10 mg/mL)

Distributed by Hospira, Inc.

Lake Forest, IL 60045 USA

Hospira



PRINCIPAL DISPLAY PANEL - 2 mL Ampule Carton

LOT #####AA

EXP DMMYYYYY

NDC 0409-4713-25

Contains 10 of NDC 0409-4713-42

Rx only

2 mL

10 Single-dose Ampuls

Preservative-Free

1%

Lidocaine HCl Injection, USP

20 mg/2 mL

(10 mg/mL)

FOR INFILTRATION AND NERVE BLOCK INCLUDING EPIDURAL AND CAUDAL

Hospira

LOT *****AA
EXP DMMYYYYY

NDC 0409-4713-25
Contains 10 of NDC 0409-4713-42

2 mL 10 Single-dose Ampuls
Preservative-Free

Rx only

1%

Lidocaine HCl Injection, USP
20 mg/2 mL
(10 mg/mL)

FOR INFILTRATION AND NERVE BLOCK INCLUDING EPIDURAL AND CAUDAL



0
9
8
7
6
5
4
3
2
1



2 mL 10 Single-dose Ampuls
Preservative-Free

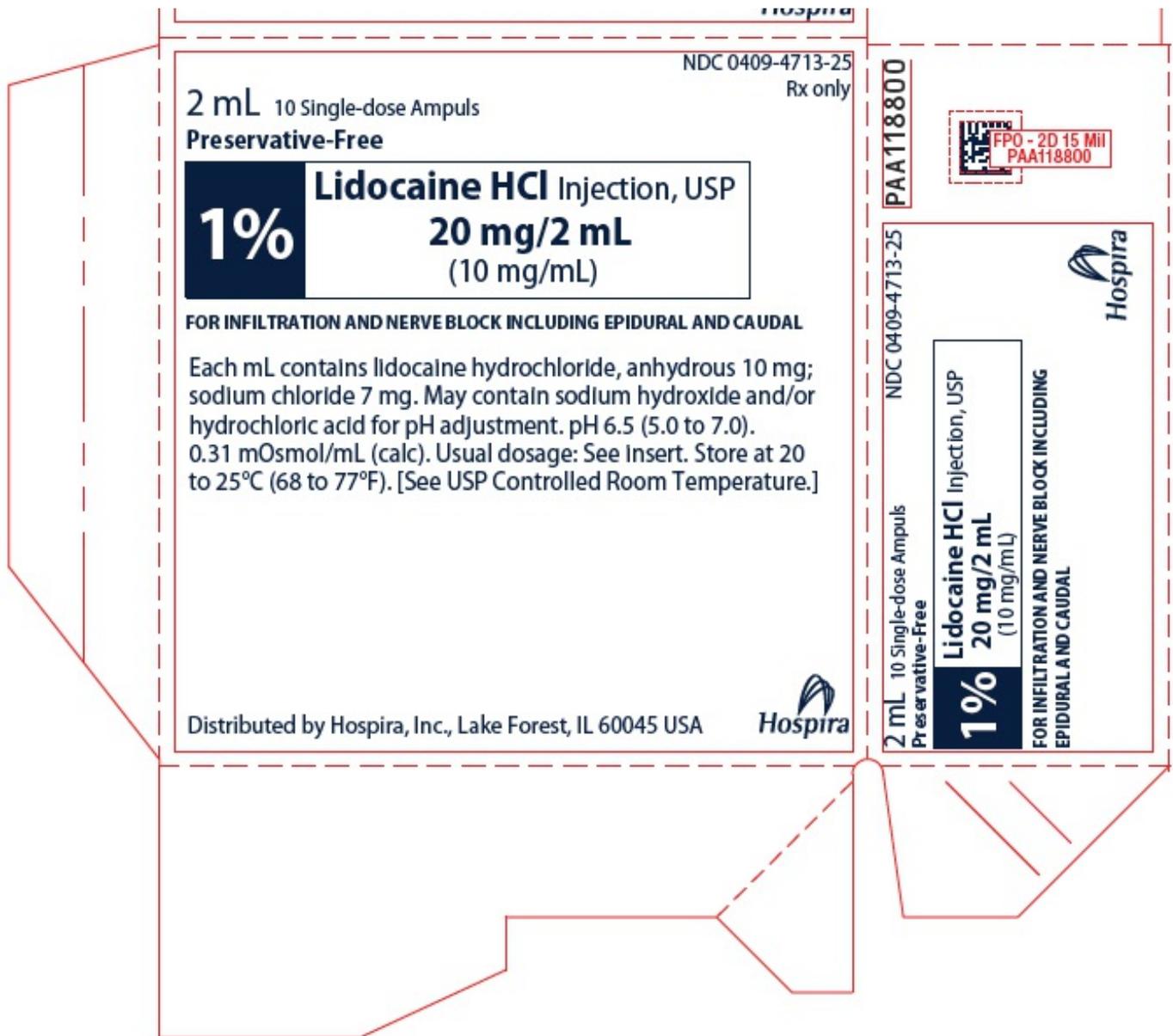
NDC 0409-4713-25

1%

Lidocaine HCl Injection, USP
20 mg/2 mL
(10 mg/mL)

FOR INFILTRATION AND NERVE BLOCK INCLUDING EPIDURAL AND CAUDAL





PRINCIPAL DISPLAY PANEL - 50 mL Vial Label - 4278

50 mL Single-dose
Preservative-Free

0.5%
Lidocaine HCl
Injection, USP

250 mg/50 mL
(5 mg/mL)

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

RL-7432

50 mL Single-dose **Preservative-Free** Rx only NDC 0409-4278-16

0.5% Lidocaine HCl
Injection, USP

250 mg/50 mL
(5 mg/mL)

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA R L - 7 4 3 2

FOR INFILTRATION TECHNIQUE INCLUDING PERCUTANEOUS INJECTION AND INTRAVENOUS REGIONAL ANESTHESIA. Each mL contains lidocaine hydrochloride, anhydrous 5 mg; NaCl 8 mg. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Discard unused portion. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]


Hospira

LOT ##-###-AA

EXP DMMYYYY

11 Quiet Zone
To Use Vantage
Barcode

Barcode Area



(01)00304094278162

PRINCIPAL DISPLAY PANEL - 50 mL Vial Tray - 4278

50 mL Single-dose Teartop Vials

0.5%

Lidocaine HCl

Injection, USP

250 mg/50 mL

(5 mg/mL)

NDC 0409-4278-01

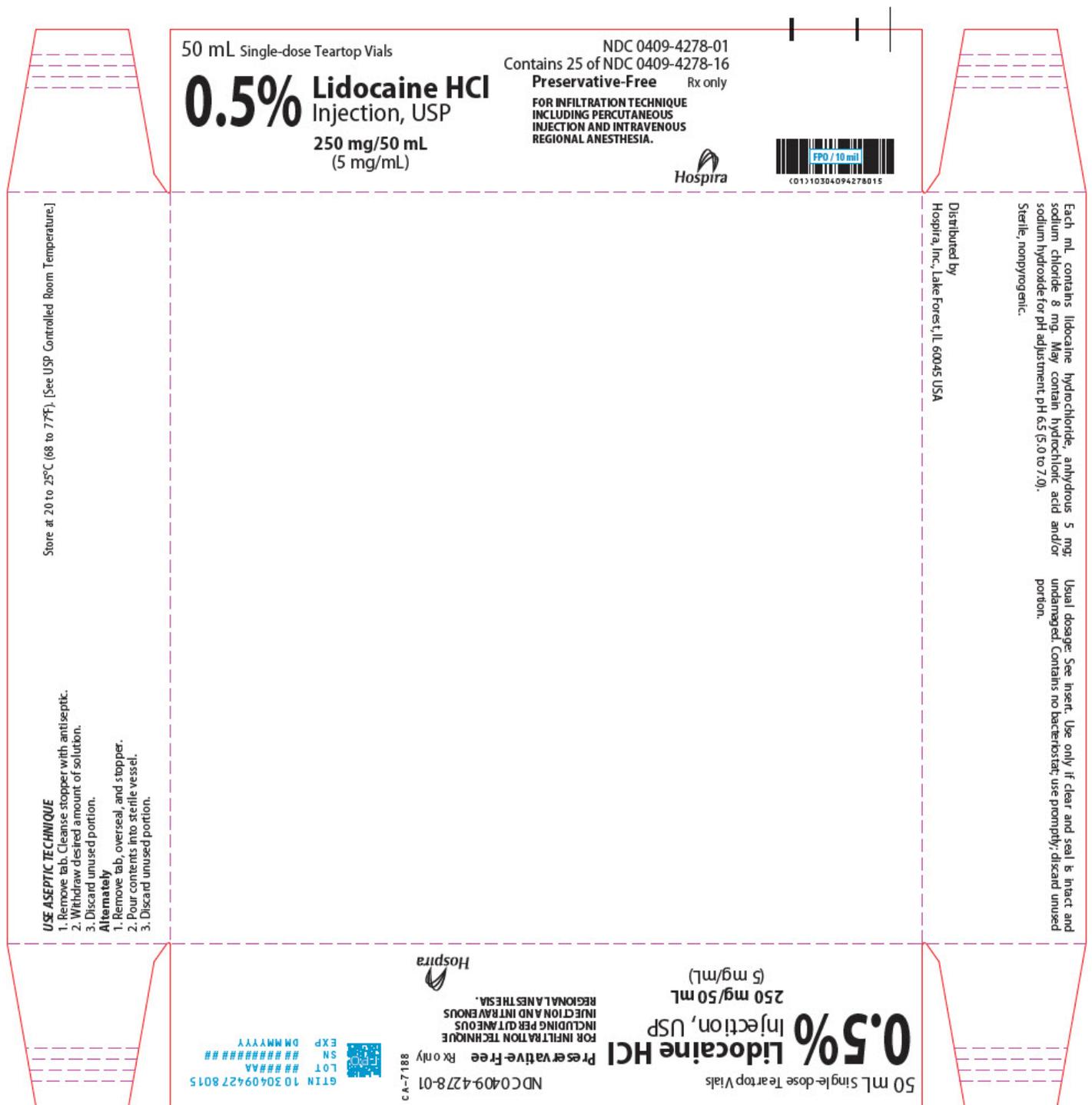
Contains 25 of NDC 0409-4278-16

Preservative-Free

Rx only

FOR INFILTRATION TECHNIQUE
INCLUDING PERCUTANEOUS
INJECTION AND INTRAVENOUS
REGIONAL ANESTHESIA.

Hospira



PRINCIPAL DISPLAY PANEL - 30 mL Vial Label - 4279

30 mL Single-dose

Rx only

Preservative-Free

1%

Lidocaine HCl

Injection, USP

300 mg/30 mL

(10 mg/mL)

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

LOT ##-###-AA

EXP DMMYYYY

30 mL Single-dose Preservative-Free	Rx only	NDC 0409-4279-16
1% Lidocaine HCl Injection, USP 300 mg/30 mL (10 mg/mL)	FOR INFILTRATION AND NERVE BLOCK INCLUDING EPIDURAL AND CAUDAL. Each mL contains lidocaine HCl, anhyd. 10 mg; NaCl 7 mg. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Discard unused portion. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]	
	Distributed by Hospira, Inc., Lake Forest, IL 60045 USA RL-7434 	
LOT ##-###-AA EXP DMMYYYY	LOT/EXP Area (SVP)	

PRINCIPAL DISPLAY PANEL - 30 mL Vial Tray

30 mL

Single-dose Teartop Vials

Preservative-Free

1%

Lidocaine HCl

Injection, USP

300 mg/30 mL

(10 mg/mL)

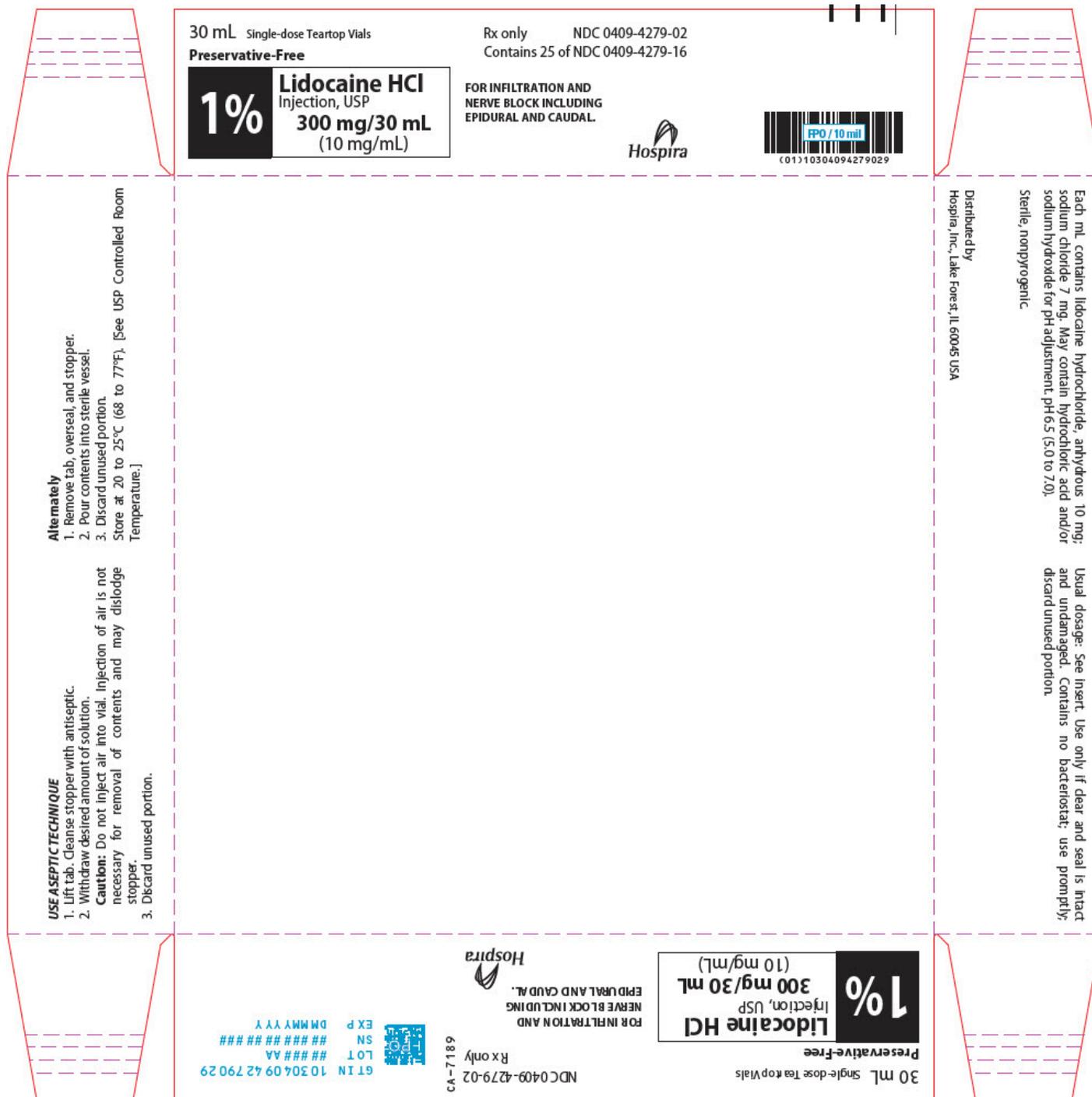
Rx only

NDC 0409-4279-02

Contains 25 of NDC 0409-4279-16

FOR INFILTRATION AND
NERVE BLOCK INCLUDING
EPIDURAL AND CAUDAL.

Hospira



PRINCIPAL DISPLAY PANEL - 20 mL Ampule Label

20 mL Single-dose
Rx only

Preservative-Free

1.5%

Lidocaine

HCl Inj., USP

300 mg/20 mL

(15 mg/mL)

Hospira

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

20 mL Single-dose
Preservative-Free

Rx only

NDC 0409-4776-10

1.5%
Lidocaine
HCl Inj., USP
300 mg/20 mL
(15 mg/mL)

**FOR INFILTRATION AND NERVE BLOCK
INCLUDING EPIDURAL AND CAUDAL.**

Each mL contains lidocaine hydrochloride
15 mg; sodium chloride 6.5 mg. May contain
sodium hydroxide and/or hydrochloric acid
for pH adjustment. pH 6.5 (5.0 to 7.0).

Sterile, nonpyrogenic. Usual dosage: See
insert. Store at 20 to 25°C (68 to 77°F). [See
USP Controlled Room
Temperature.]

RL-7442

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA



LOT ##-###-AA
EXP DMMMYYYY

PRINCIPAL DISPLAY PANEL - 20 mL Ampule Carton

20 mL
Single-dose Ampuls

Rx only
NDC 0409-4776-01
Contains 25 of NDC 0409-4776-10

Preservative-Free

1.5%
Lidocaine HCl
Injection, USP
300 mg/20 mL
(15 mg/mL)

**FOR INFILTRATION AND NERVE BLOCK INCLUDING
EPIDURAL AND CAUDAL.**

Hospira

GTIN 10304094776016
LOT #####AA
SN #####
EXP DMMMYYYY

CA-7191

20 mL Single-dose Ampuls

Rx only NDC 0409-4776-01
Contains 25 of NDC 0409-4776-10

Preservative-Free

1.5%

Lidocaine HCl

Injection, USP

300 mg/20 mL
(15 mg/mL)

FOR INFILTRATION AND NERVE BLOCK INCLUDING
EPIDURAL AND CAUDAL.



GTIN 10304094776016
LOT #####
SN #####
EXP DMMYYYY

CA-7191



20 mL Single-dose Ampuls

NDC 0409-4776-01
Rx only

Preservative-Free

1.5%

Lidocaine HCl

Injection, USP

300 mg/20 mL
(15 mg/mL)

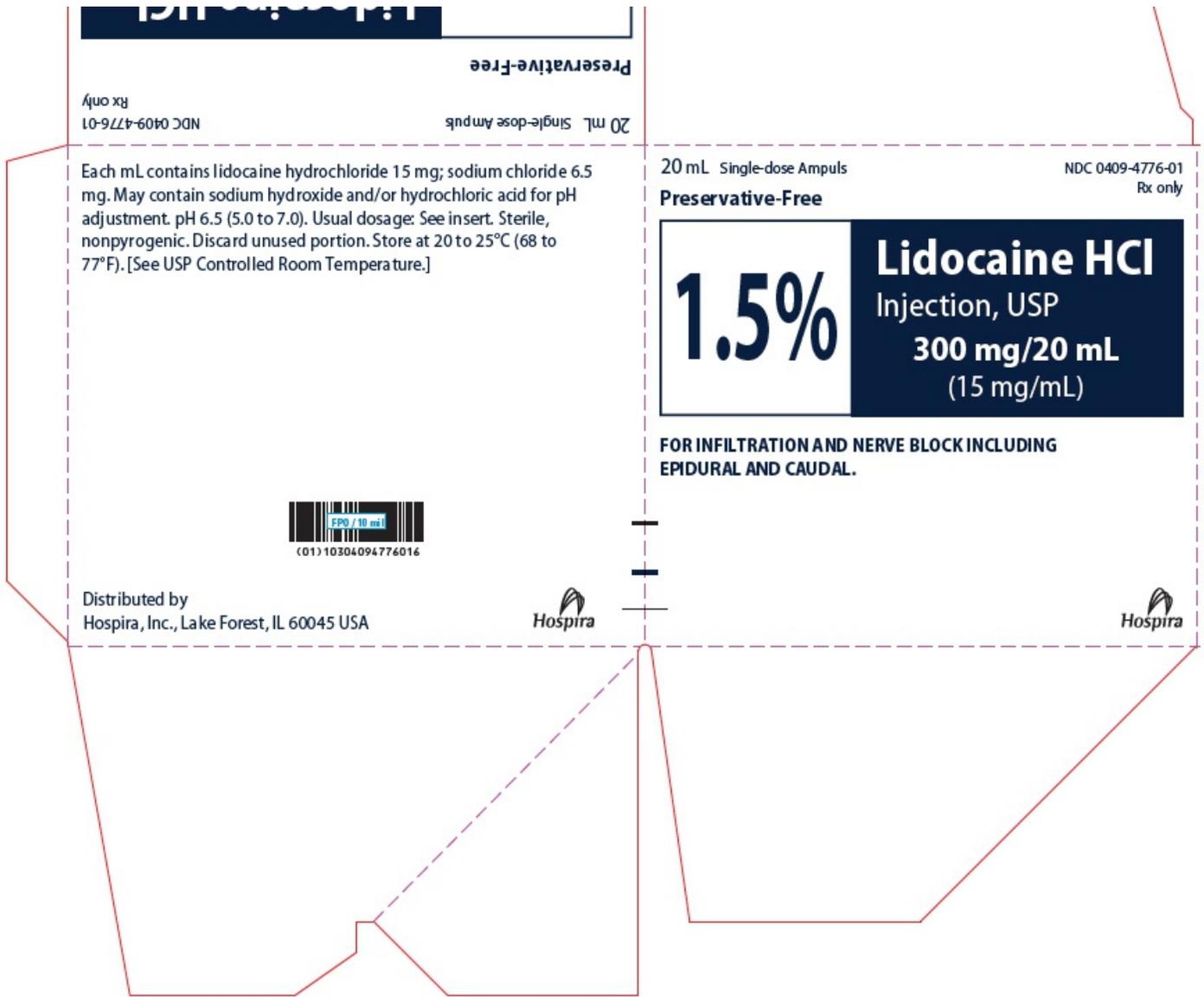
FOR INFILTRATION AND NERVE BLOCK INCLUDING
EPIDURAL AND CAUDAL.



FOR INFILTRATION AND NERVE BLOCK INCLUDING
EPIDURAL AND CAUDAL.

Lidocaine HCl
Injection, USP
300 mg/20 mL
(15 mg/mL)

1.5%



PRINCIPAL DISPLAY PANEL - 2 mL Ampule Label

2 mL Single-dose
Preservative-Free

NDC 0409-4282-11
Rx only

2%
Lidocaine HCl
Injection, USP
40 mg/2 mL
(20 mg/mL)

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

RL-7733

LOT ##-###-AA
EXP DMMMYYYY

2 mL Single-dose

NDC 0409-4282-11

Preservative-Free

Rx only

2% **Lidocaine HCl**
Injection, USP
40 mg/2 mL
(20 mg/mL)

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

RL-7733



LOT ##-###-AA

EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 2 mL Ampule Cello Pack

2 mL Single-dose Ampuls
Preservative-Free

NDC 0409-4282-25
Contains 5 of NDC 0409-4282-11

2%
Lidocaine HCl
Injection, USP
40 mg/2 mL (20 mg/mL)

MAY BE USED FOR INFILTRATION, PERIPHERAL
OR SYMPATHETIC NERVE BLOCKS, EPIDURAL
AND CAUDAL BLOCKS.

Not for spinal use.

Rx only

Each mL contains lidocaine hydrochloride, anhydrous 20 mg;
sodium chloride 6 mg. May contain HCl and/or NaOH for
pH adjustment. pH 6.5 (5.0 to 7.0). Usual dosage:
See insert. Store at 20 to 25°C (68 to 77°F).
[See USP Controlled Room Temperature.]

Hospira

Distributed by Hospira, Inc.
Lake Forest, IL 60045 USA

RL-7436

LOT ##-###-AA
EXP DMMYYYY

2 mL Single-dose Ampuls NDC 0409-4282-25
Preservative-Free Contains 5 of NDC 0409-4282-11

2% **Lidocaine HCl**
Injection, USP
40 mg/2 mL (20 mg/mL)

**MAY BE USED FOR INFILTRATION, PERIPHERAL
OR SYMPATHETIC NERVE BLOCKS, EPIDURAL
AND CAUDAL BLOCKS.**

Not for spinal use.

Rx only

Each mL contains lidocaine hydrochloride, anhydrous 20 mg;
sodium chloride 6 mg. May contain HCl and/or NaOH for
pH adjustment. pH 6.5 (5.0 to 7.0). Usual dosage:
See insert. Store at 20 to 25°C (68 to 77°F).
[See USP Controlled Room Temperature.]



Distributed by Hospira, Inc.
Lake Forest, IL 60045 USA

LOT ##-###-AA
EXP DMMYYYY

RL-7436



PRINCIPAL DISPLAY PANEL - 10 mL Ampule Label

10 mL Single-dose
Preservative-Free

NDC 0409-4282-12

Rx only

2%
Lidocaine HCl
Injection, USP
200 mg/10 mL
(20 mg/mL)

**FOR INFILTRATION AND NERVE BLOCK
INCLUDING EPIDURAL AND CAUDAL.**

Each mL contains lidocaine HCl, anhyd. 20 mg; NaCl 6 mg.
May contain HCl and/or NaOH for pH adjustment. pH 6.5
(5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert.
Discard unused portion. Store at 20 to 25°C (68 to 77°F).

[See USP Controlled Room Temperature.]

RL-7438

Hospira

Distributed by Hospira, Inc.,
Lake Forest, IL 60045 USA

10 mL Single-dose NDC 0409-4282-12
Preservative-Free Rx only

2% **Lidocaine HCl**
Injection, USP
200 mg/10 mL
(20 mg/mL)

**FOR INFILTRATION AND NERVE BLOCK
INCLUDING EPIDURAL AND CAUDAL.**

Each mL contains lidocaine HCl, anhyd. 20 mg; NaCl 6 mg.
May contain HCl and/or NaOH for pH adjustment. pH 6.5
(5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert.
Discard unused portion. Store at 20 to 25°C (68 to 77°F).
[See USP Controlled Room Temperature.]

RL-7438 Distributed by Hospira, Inc.,
Lake Forest, IL 60045 USA

LOT ##-###-AA
EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 10 mL Ampule Carton

10 mL Single-dose Ampuls

Preservative-Free

Rx only

NDC 0409-4282-02

Contains 25 of NDC 0409-4282-12

2%

Lidocaine HCl
Injection, USP

200 mg/10 mL
(20 mg/mL)

FOR INFILTRATION AND NERVE BLOCKS INCLUDING
EPIDURAL AND CAUDAL.

GTIN 10304094282029

LOT #####AA

SN #####

EXP DMMYYYY

CA-7190

Hospira

10 mL Single-dose Ampuls

Rx only NDC 0409-4282-02
Contains 25 of NDC 0409-4282-12

Preservative-Free

2% **Lidocaine HCl**
Injection, USP
200 mg/10 mL
(20 mg/mL)

FOR INFILTRATION AND NERVE BLOCKS INCLUDING
EPIDURAL AND CAUDAL.



GTIN 10304094282029
LOT #####
SN #####
EXP DMMYYYY

CA-7190



10 mL Single-dose Ampuls

NDC 0409-4282-02
Rx only

Preservative-Free

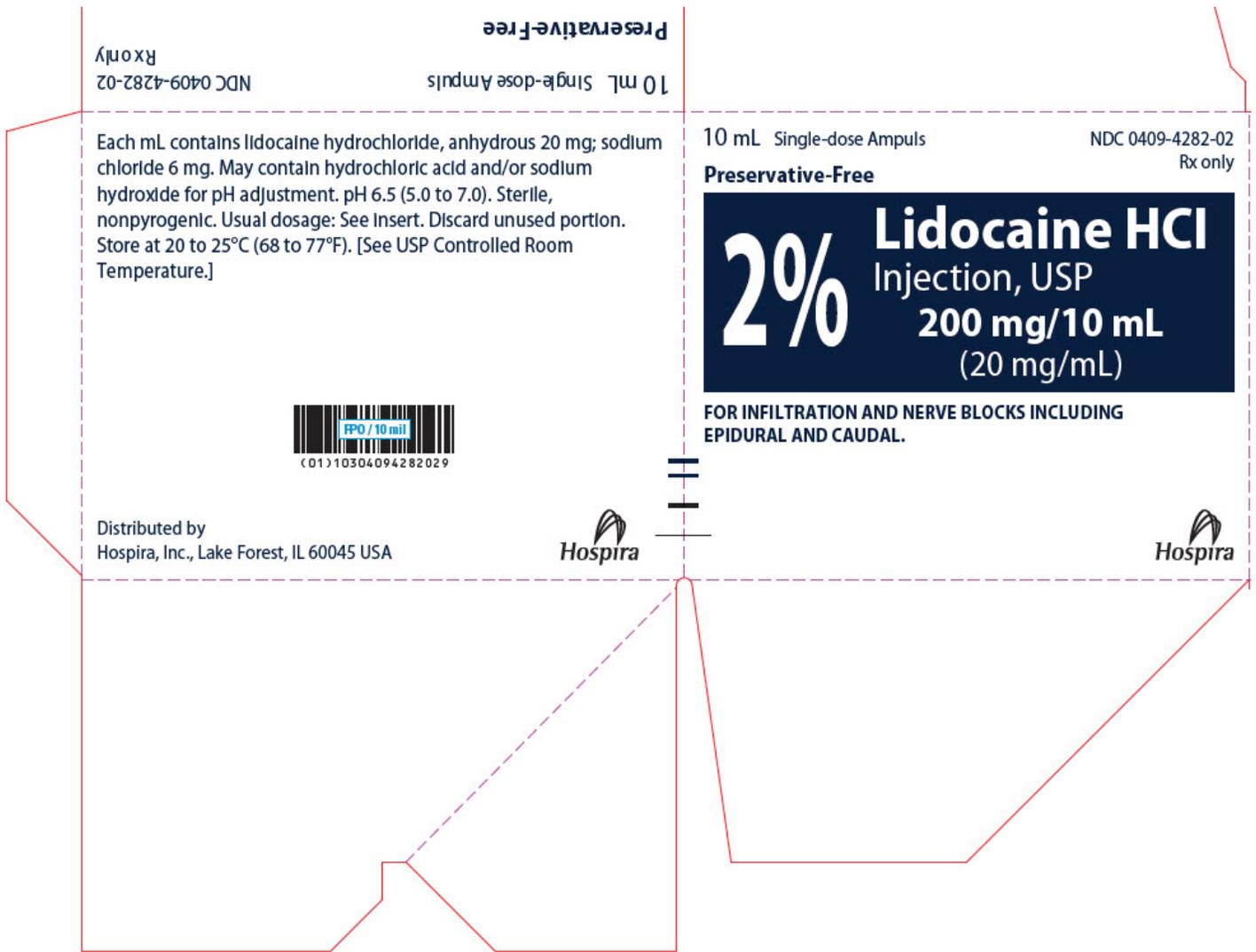
2% **Lidocaine HCl**
Injection, USP
200 mg/10 mL
(20 mg/mL)

FOR INFILTRATION AND NERVE BLOCKS INCLUDING
EPIDURAL AND CAUDAL.



FOR INFILTRATION AND NERVE BLOCKS INCLUDING
EPIDURAL AND CAUDAL

2% **Lidocaine HCl**
Injection, USP
200 mg/10 mL
(20 mg/mL)



PRINCIPAL DISPLAY PANEL - 400 mg/20 mL Vial Label

20 mL

Multiple-dose

2%

Lidocaine HCl

Injection, USP

400 mg/20 mL

(20 mg/mL)

LOT ##-###-AA

EXP DMMMYYYY

20 mL **Multiple-dose**

Rx only

NDC 0409-4277-16

FOR INFILTRATION AND NERVE BLOCK.

Lidocaine HCl
2% Injection, USP
400 mg/20 mL
(20 mg/mL)

Not for epidural and caudal use.
Contains preservative.

Each mL contains lidocaine hydrochloride, anhydrous 20 mg; sodium chloride 6 mg; methylparaben 1 mg added as preservative. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

RL-7428

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA



LOT ##-###-AA
EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 400 mg/20 mL Vial Tray

20 mL Multiple-dose Fliptop Vials

2%

Lidocaine HCl

Injection, USP

400 mg/20 mL

(20 mg/mL)

Rx only

NDC 0409-4277-01

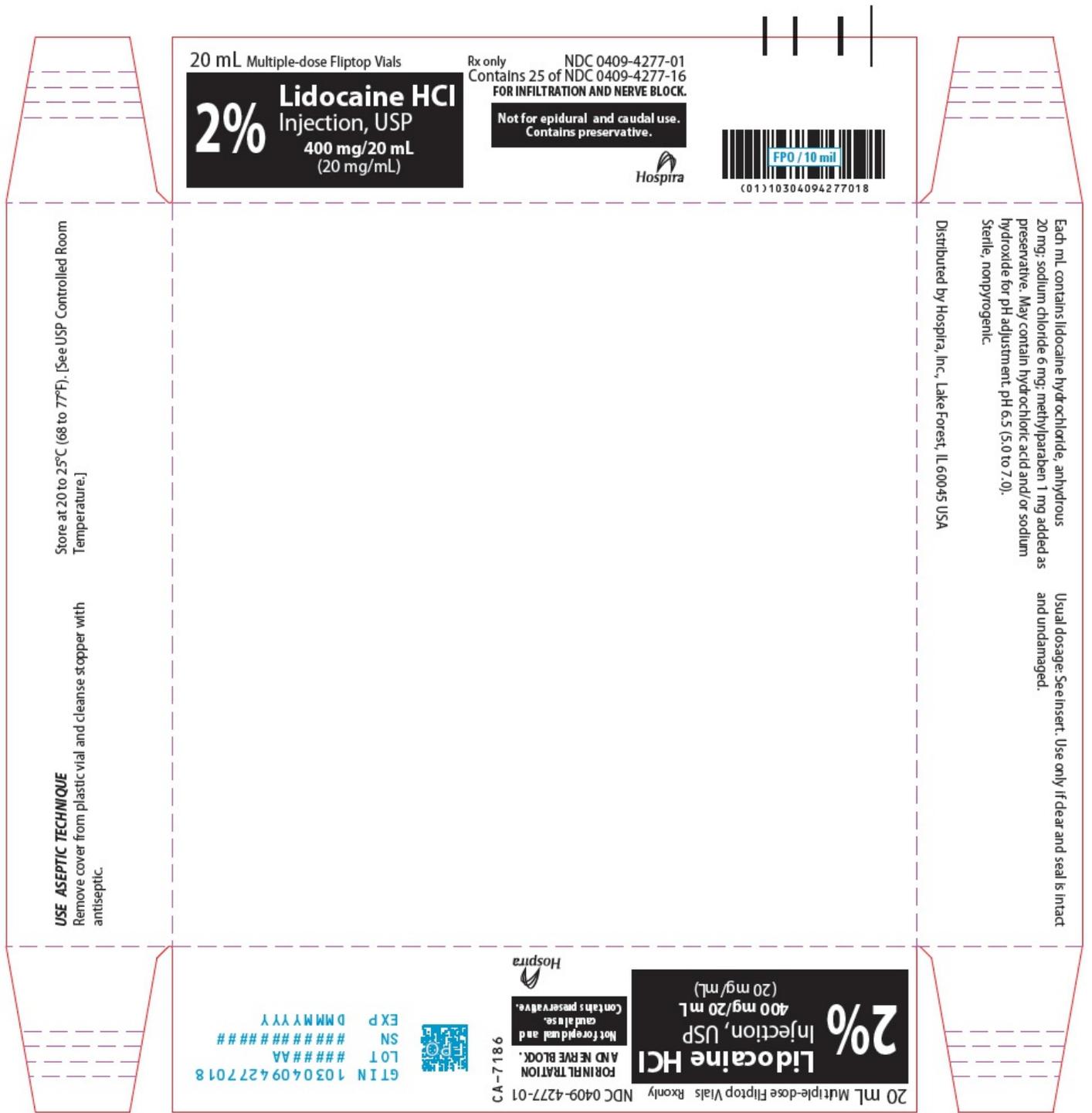
Contains 25 of NDC 0409-4277-16

FOR INFILTRATION AND NERVE BLOCK.

Not for epidural and caudal use.

Contains preservative.

Hospira



PRINCIPAL DISPLAY PANEL - 1000 mg/50 mL Vial Label

50 mL

Multiple-dose

2%

Lidocaine HCl

Injection, USP

1000 mg/50 mL

(20 mg/mL)

LOT ##-###-AA

EXP DMMMYYYY

50 mL **Multiple-dose**

Lidocaine HCl
2% Injection, USP
1000 mg/50 mL
(20 mg/mL)

Rx only NDC 0409-4277-17
FOR INFILTRATION AND NERVE BLOCK.
Not for epidural and caudal use.
Contains preservative.

Each mL contains lidocaine hydrochloride, anhydrous 20 mg; sodium chloride 6 mg; methylparaben 1 mg added as preservative. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

LOT ##-###-AA
EXP DMMMYYYY

RL-7430
Dist. by Hospira, Inc., Lake Forest, IL 60045 USA

PRINCIPAL DISPLAY PANEL - 1000 mg/50 mL Vial Tray

50 mL Multiple-dose Fliptop Vials

2%

Lidocaine HCl
Injection, USP

1000 mg/50 mL
(20 mg/mL)

Rx only

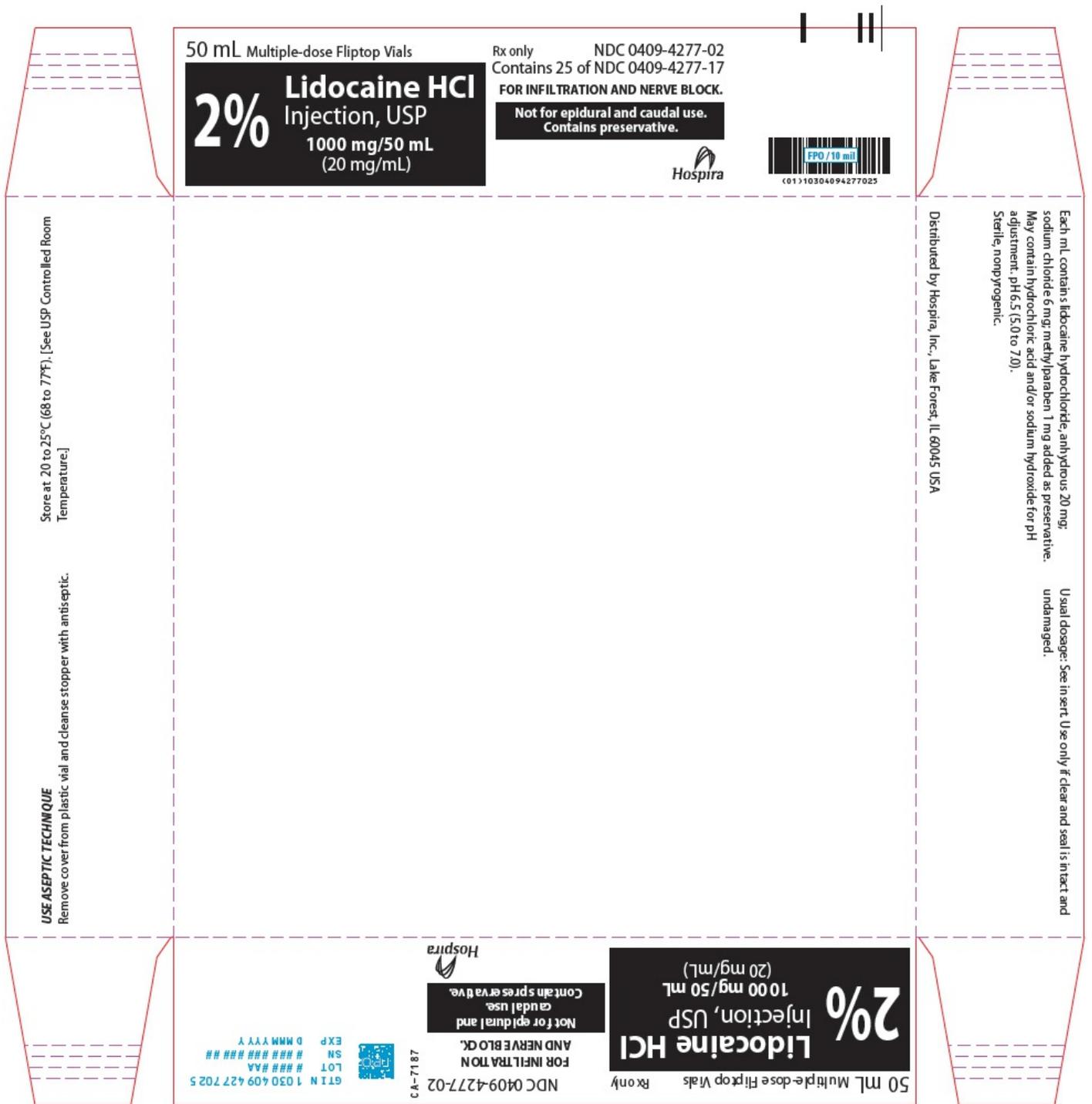
NDC 0409-4277-02

Contains 25 of NDC 0409-4277-17

FOR INFILTRATION AND NERVE BLOCK.

Not for epidural and caudal use.
Contains preservative.

Hospira



PRINCIPAL DISPLAY PANEL - 200 mg/20 mL Vial Label

20 mL

Multiple-dose

1%

Lidocaine HCl

Injection, USP

200 mg/20 mL

(10 mg/mL)

LOT ##-###-AA

EXP DMMMYYYY

20 mL

Multiple-dose

Rx only

NDC 0409-4276-16

FOR INFILTRATION AND NERVE BLOCK.

1%

Lidocaine HCl

Injection, USP

200 mg/20 mL
(10 mg/mL)

Not for epidural and caudal use.
Contains preservative

Each mL contains lidocaine hydrochloride, anhydrous 10 mg; sodium chloride 7 mg; methylparaben 1 mg added as preservative. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F).

[See USP Controlled Room Temperature.] RL-7424

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA



(01) 00304094276168

LOT ##-###-AA

EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 200 mg/20 mL Vial Tray

20 mL Multiple-dose Fliptop Vials

1%

Lidocaine HCl

Injection, USP

200 mg/20 mL

(10 mg/mL)

Rx only

NDC 0409-4276-01

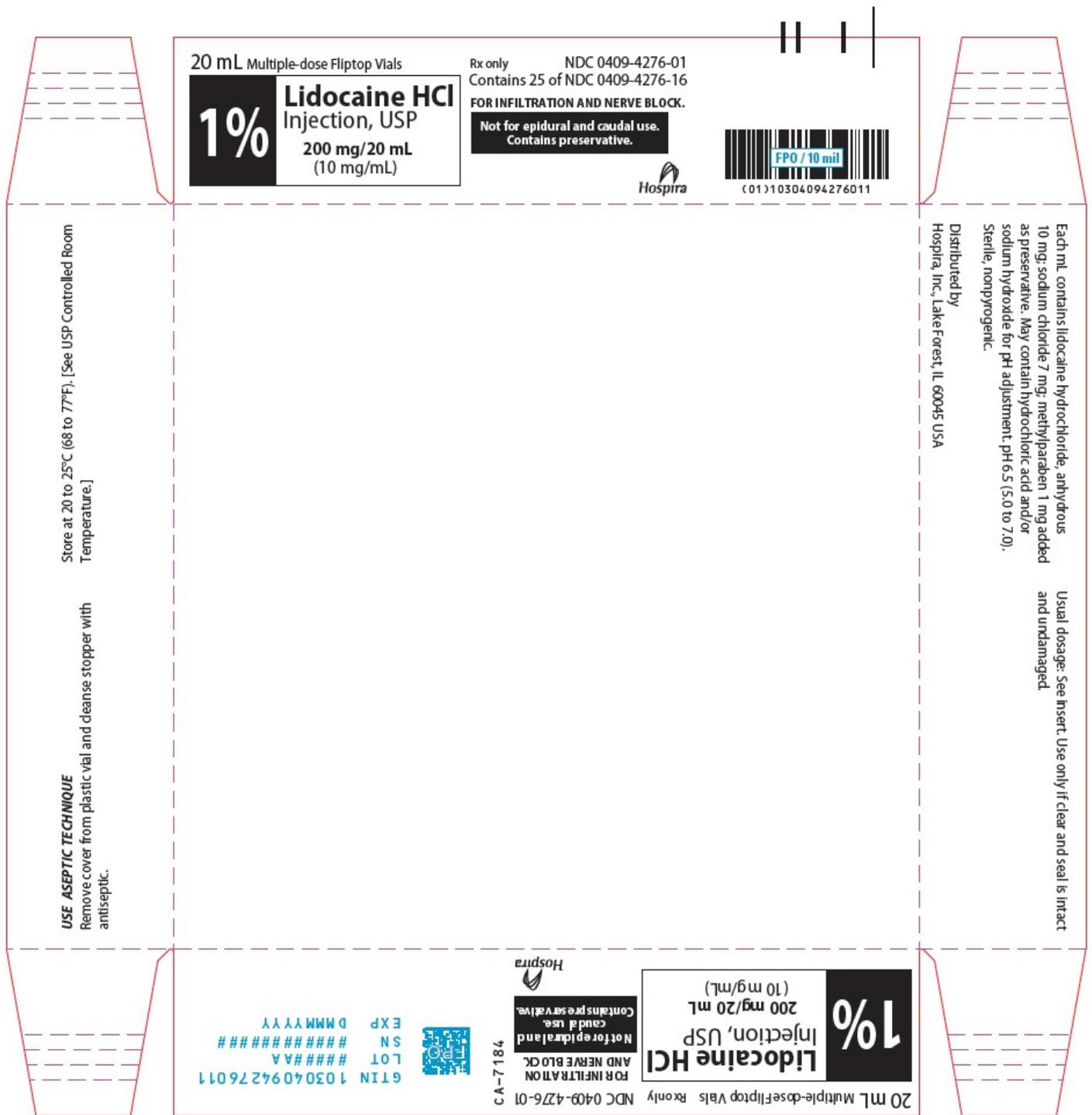
Contains 25 of NDC 0409-4276-16

FOR INFILTRATION AND NERVE BLOCK.

Not for epidural and caudal use.

Contains preservative.

Hospira



PRINCIPAL DISPLAY PANEL - 500 mg/50 mL Vial Label

50 mL

Multiple-dose

1%

Lidocaine HCl

Injection, USP

500 mg/50 mL

(10 mg/mL)

LOT ##-###-AA

EXP DMMMYYYY

50 mL **Multiple-dose**

1% **Lidocaine HCl**
Injection, USP
500 mg/50 mL
(10 mg/mL)

Rx only NDC 0409-4276-17
FOR INFILTRATION AND NERVE BLOCK.
Not for epidural and caudal use.
Contains preservative.

Each mL contains lidocaine hydrochloride, anhydrous 10 mg; sodium chloride 7 mg; methylparaben 1 mg added as preservative. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

R L - 7 4 2 6
Distributed by Hospira, Inc., Lake Forest, IL 60045 USA 

LOT ##-###-AA
EXP DMMMYYYY

FPO / 7.5 Mil
(01)00304094276175

PRINCIPAL DISPLAY PANEL - 500 mg/50 mL Vial Tray

50 mL Multiple-dose Fliptop Vials

1%

Lidocaine HCl

Injection, USP

500 mg/50 mL

(10 mg/mL)

Rx only

NDC 0409-4276-02

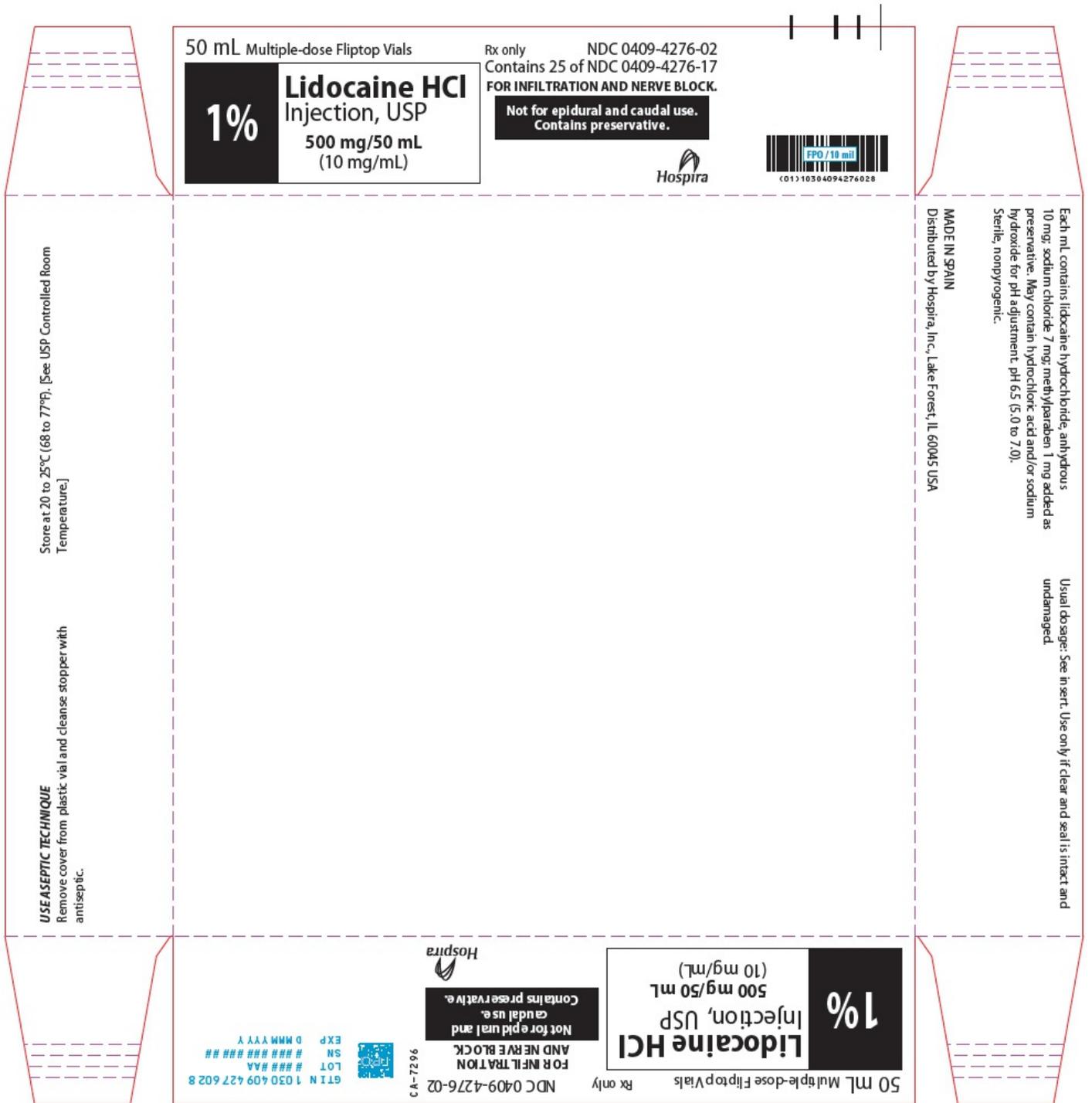
Contains 25 of NDC 0409-4276-17

FOR INFILTRATION AND NERVE BLOCK.

Not for epidural and caudal use.

Contains preservative.

Hospira



PRINCIPAL DISPLAY PANEL - 250 mg/50 mL Vial Label

50 mL
Multiple-dose

0.5%
Lidocaine HCl
 Injection, USP

250 mg/50 mL
 (5 mg/mL)

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

LOT ## ###-AA

EXP DMMMYYYY

50 mL **Multiple-dose**

0.5% Lidocaine HCl
Injection, USP
250 mg/50 mL
(5 mg/mL)

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

LOT ##-###-AA
EXP DMMMYYYY

Rx only NDC 0409-4275-16
FOR INFILTRATION AND NERVE BLOCK.
Not for epidural and caudal use.
Contains preservative.

Each mL contains lidocaine hydrochloride, anhydrous 5 mg; sodium chloride 8 mg; methylparaben 1 mg added as preservative. May contain HCl and/or NaOH for pH adjustment. pH 6.5 (5.0 to 7.0). Sterile, nonpyrogenic. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

RL-7422

Hospira

FPO / 7.5 MUI
(01)00304094275161

PRINCIPAL DISPLAY PANEL - 250 mg/50 mL Vial Tray

50 mL Multiple-dose Fliptop Vials

0.5%

Lidocaine HCl

Injection, USP

250 mg/50 mL

(5 mg/mL)

Rx only

NDC 0409-4275-01

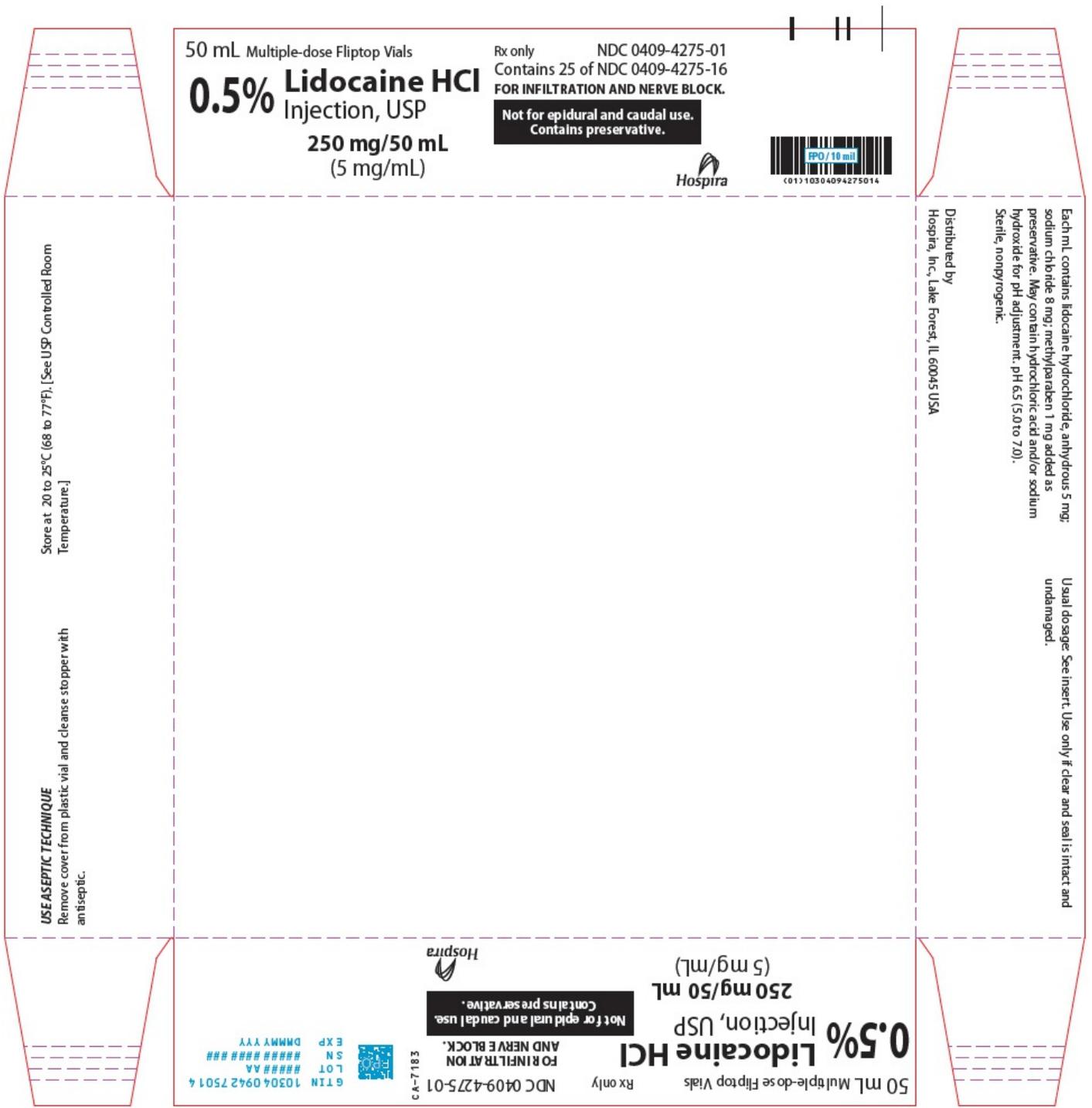
Contains 25 of NDC 0409-4275-16

FOR INFILTRATION AND NERVE BLOCK.

Not for epidural and caudal use.

Contains preservative.

Hospira



LIDOCAINE HYDROCHLORIDE			
lidocaine hydrochloride injection, solution			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4713
Route of Administration	INFILTRATION, PERINEURAL, EPIDURAL, INTRACAUDAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	10 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	7 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4713-02	5 in 1 PACKAGE	11/16/2005	
1	NDC:0409-4713-26	5 in 1 CELLO PACK		
1	NDC:0409-4713-12	5 mL in 1 AMPULE; Type 0: Not a Combination Product		
2	NDC:0409-4713-62	800 in 1 CASE	10/11/2005	
2	NDC:0409-4713-72	2 mL in 1 AMPULE; Type 0: Not a Combination Product		
3	NDC:0409-4713-65	800 in 1 CASE	07/08/2005	
3	NDC:0409-4713-75	5 mL in 1 AMPULE; Type 0: Not a Combination Product		
4	NDC:0409-4713-32	5 in 1 PACKAGE	09/02/2005	
4	NDC:0409-4713-25	10 in 1 CARTON		
4	NDC:0409-4713-42	2 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA080408	07/08/2005	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4278
Route of Administration	INFILTRATION, INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	5 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	8 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4278-01	25 in 1 TRAY	06/30/2005	
1	NDC:0409-4278-16	50 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA088328	06/30/2005	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4279
Route of Administration	INFILTRATION, PERINEURAL, EPIDURAL, INTRACAUDAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	10 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	7 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
---	-----------	---------------------	----------------------	--------------------

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4279-02	25 in 1 TRAY	08/30/2005	
1	NDC:0409-4279-16	30 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA088329	08/30/2005	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4776
Route of Administration	INFILTRATION, PERINEURAL, EPIDURAL, INTRACAUDAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	15 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	6.5 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4776-01	25 in 1 CARTON	01/06/2006	
1	NDC:0409-4776-10	20 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA080408	01/06/2006	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4282
Route of Administration	INFILTRATION, PERINEURAL, EPIDURAL, INTRACAUDAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	20 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	6 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4282-01	5 in 1 PACKAGE	09/14/2005	
1	NDC:0409-4282-25	5 in 1 CELLO PACK		
1	NDC:0409-4282-11	2 mL in 1 AMPULE; Type 0: Not a Combination Product		
2	NDC:0409-4282-02	25 in 1 CARTON	01/06/2006	
2	NDC:0409-4282-12	10 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA088294	09/14/2005	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4277
Route of Administration	INFILTRATION, PERINEURAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	20 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	6 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
METHYL PARABEN (UNII: A2I8C7HI9T)	1 mg in 1 mL

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4277-01	25 in 1 TRAY	06/15/2005	
1	NDC:0409-4277-16	20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		
2	NDC:0409-4277-02	25 in 1 TRAY	08/19/2005	
2	NDC:0409-4277-17	50 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA088327	06/15/2005	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4276
Route of Administration	INFILTRATION, PERINEURAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	10 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	7 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
METHYL PARABEN (UNII: A2I8C7HI9T)	1 mg in 1 mL

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4276-01	25 in 1 TRAY	08/16/2005	
1	NDC:0409-4276-16	20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		
2	NDC:0409-4276-02	25 in 1 TRAY	07/12/2005	
2	NDC:0409-4276-17	50 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA088299	07/12/2005	

LIDOCAINE HYDROCHLORIDE

lidocaine hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-4275
Route of Administration	INFILTRATION, PERINEURAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LIDOCAINE HYDROCHLORIDE (UNII: V13007Z41A) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE HYDROCHLORIDE ANHYDROUS	5 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	8 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
METHYL PARABEN (UNII: A2I8C7HI9T)	1 mg in 1 mL

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-4275-01	25 in 1 TRAY	01/04/2006	
1	NDC:0409-4275-16	50 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA088325	01/04/2006	

Labeler - Hospira, Inc. (141588017)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		093132819	ANALYSIS(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , LABEL(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , MANUFACTURE(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , PACK(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		030606222	ANALYSIS(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , LABEL(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , MANUFACTURE(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , PACK(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		827731089	ANALYSIS(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776)

Establishment

Name	Address	ID/FEI	Business Operations
Pfizer Healthcare India Private Limited		860037912	ANALYSIS(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , LABEL(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , MANUFACTURE(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776) , PACK(0409-4275, 0409-4276, 0409-4277, 0409-4278, 0409-4279, 0409-4282, 0409-4713, 0409-4776)