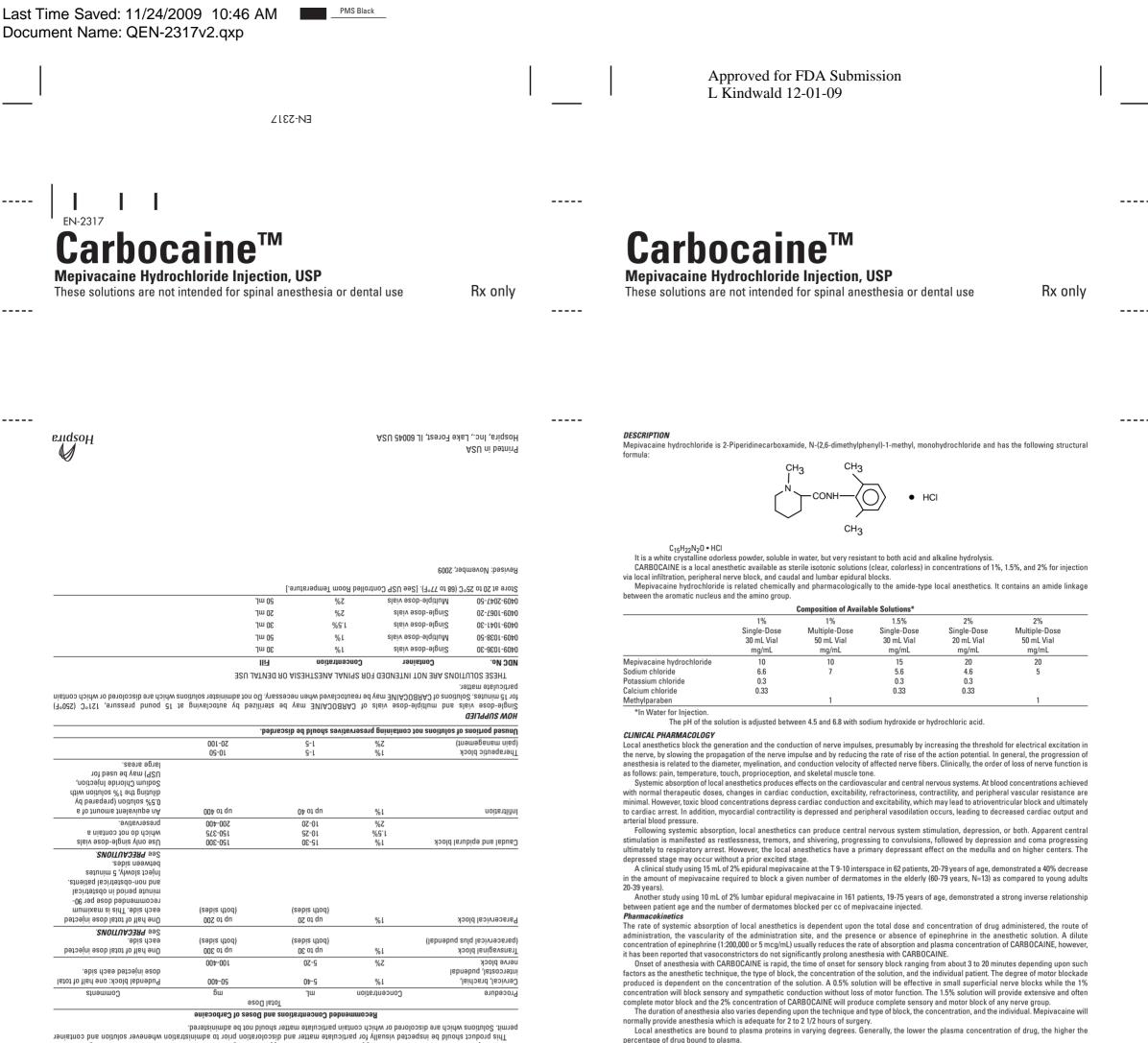
This label may not be the latest approved by FDA. For current labeling information, please visit https://www.fda.gov/drugsatfda



Unused portions of solutions not containing preservatives, i.e., those supplied in single-dose vials, should be discarded following initial use. This products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container mit. uoniq pe embioλeq.

weighing less than 30 lb. In pediatric patients under 3 years of age or weighing less than 30 lb concation 2x% (e.g., 0.5% to 1.5%) Pediatric patients to leteste the local anesthetic as well as adults. However, the pediatric dose should be **carefully measured** as a percentage of the cust adult dose **based** on **weight**, and should no exceed 5 mg/kg to 6 mg/kg (2,5 mg/b to 3 mg/b) in pediatric patients, especially those the set of the cust adult dose **based** on the set of the cust adult of the set of the set of the cust adult of the set of the .(CNUTUAJANA DAG VILLA DAG CLINICAL VALANDARAULULUG 16909) NOTE

nonionized drugs readily enter the fetal blood from the maternal circulation. Depending upon the route of administration, local anesthetics are distributed to some extent to all body tissues. in highly perfused organs such as the liver, lungs, heart, and brain.

Local anesthetics appear to cross the placenta by passive diffusion. The rate and degree of diffusion is governed by the degree of plasma

protein binding, the degree of ionization, and the degree of lipid solubility. Fetal/maternal ratios of local anesthetics appear to be inversely related to the degree of plasma protein binding, because only the free, unbound drug is available for placental transfer. CARBOCAINE is approximately 75%

bound to plasma proteins. The extent of placental transfer is also determined by the degree of ionization and lipid solubility of the drug. Lipid soluble,

Various pharmacokinetic parameters of the local anesthetics can be significantly altered by the presence of hepatic or renal disease, addition f epinephrine, factors affecting urinary pH, renal blood flow, the route of drug administration, and the age of the patient. The half-life of CARBOCAINE in adults is 1.9 to 3.2 hours and in neonates 8.7 to 9 hours.

Mepivacaine, because of its amide structure, is not detoxified by the circulating plasma esterases. It is rapidly metabolized, with only a small percentage of the anesthetic (5 percent to 10 percent) being excreted unchanged in the urine. The liver is the principal site of metabolism, with over 50% of the administered dose being excreted into the bile as metabolites. Most of the metabolized mepivacaine is probably resorbed in the intestine and then excreted into the urine since only a small percentage is found in the feces. The principal route of excretion is via the kidney. Most of the anesthetic and its metabolites are eliminated within 30 hours. It has been shown that hydroxylation and N-demethylation, which are detoxification reactions, play important roles in the metabolism of the anesthetic. Three metabolites of mepivacaine have been identified from human adults: two phenols, which are excreted almost exclusively as their glucuronide conjugates, and the N-demethylated compound (2'6'pipecoloxylidide).

Mepivacaine does not ordinarily produce irritation or tissue damage, and does not cause methemoglobinemia when administered in recommended doses and concentration

INDICATIONS AND USAGE

CARBOCAINE is indicated for production of local or regional analgesia and anesthesia by local infiltration, peripheral nerve block techniques, and central neural techniques including epidural and caudal blocks. The routes of administration and indicated concentrations for CARBOCAINE are:

local infiltration	0.5% (via dilution) or 1%
peripheral nerve blocks	1% and 2%
epidural block	1%, 1.5%, 2%
caudal block	1%, 1.5%, 2%

See DOSAGE AND ADMINISTRATION for additional information. Standard textbooks should be consulted to determine the accepted procedures and techniques for the administration of CARBOCAINE.

CONTRAINDICATIONS

CARBOCAINE is contraindicated in patients with a known hypersensitivity to it or to any local anesthetic agent of the amide-type or to other components of solutions of CARBOCAINE

DOSE-RELATED TOXICITY AND OTHER ACUTE EMERGENCIES WHICH MIGHT ARISE FROM THE BLOCK TO BE EMPLOYED, AND THEN ONLY AFTER INSURING THE IMMEDIATE AVAILABILITY OF OXYGEN, OTHER RESUSCITATIVE DRUGS, CARDIOPULMONARY RESUSCITATIVE EQUIPMENT, AND THE PERSONNEL RESOURCES 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.

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 influsion 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.

It is essential that aspiration for blood or cerebrospinal fluid (where applicable) be done prior to injecting any local anesthetic, both the original dose and all subsequent doses, to avoid intravascular or subarachnoid injection. However, a negative aspiration does not ensure against an intravascular or subarachnoid injection.

Reactions resulting in fatality have occurred on rare occasions with the use of local anesthetics.

CARBOCAINE with epinephrine or other vasopressors should not be used concomitantly with ergot-type oxytocic drugs, because a severe persistent hypertension may occur. Likewise, solutions of CARBOCAINE containing a vasoconstrictor, such as epinephrine, should be used with extreme caution in patients receiving monoamine oxidase inhibitors (MAOI) or antidepressants of the triptyline or imipramine types, because severe prolonged hypertension may result.

Local anesthetic procedures should be used with caution when there is inflammation and/or sepsis in the region of the proposed injection. Mixing or the prior or intercurrent use of any local anesthetic with CARBOCAINE cannot be recommended because of insufficient data on the clinical use of such mixtures.

PRECAUTIONS

General

The safety and effectiveness of local anesthetics depend on proper dosage, correct technique, adequate precautions, and readiness for emergencies. Resuscitative equipment, oxygen, and other resuscitative drugs should be available for immediate use. (See WARNINGS and ADVERSE REACTIONS.) During major regional nerve blocks, the patient should have IV fluids running via an indwelling catheter to assure a functioning intravenous pathway. The lowest dosage of local anesthetic that results in effective anesthesia should be used to avoid high plasma levels and serious adverse effects. Injections should be made slowly, with frequent aspirations before and during the injection to avoid intravascular injection. Current opinion favors fractional administration with constant attention to the patient, rather than rapid bolus injection. Syringe aspirations should also be performed before and during each supplemental injection in continuous (intermittent) catheter techniques. An intravascular injection is still possible even if aspirations for blood are negative.

During the administration of epidural anesthesia, it is recommended that a test dose be administered initially and the effects monitored before the full dose is given. When using a "continuous" catheter technique, test doses should be given prior to both the original and all reinforcing doses, because plastic tubing in the epidural space can migrate into a blood vessel or through the dura. When clinical conditions permit, an effective test dose should contain epinephrine (10 mcg to 15 mcg have been suggested) to serve as a warning of unintended intravascular injection. If injected into a blood vessel, this amount of epinephrine is likely to produce an "epinephrine response" within 45 seconds, consisting of an increase of pulse and 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. Therefore, following the test dose, the heart rate should be monitored for a heart rate increase. The test dose should also contain 45 mg to 50 mg of CARBOCAINE to detect an unintended intrathecal administration. This will be evidenced within a few minutes by signs of spinal block (e.g., decreased sensation of the buttocks, paresis of the leg, or, in the sedated patient, absent knee jerk).

Injection of repeated doses of local anesthetics may cause significant increases in plasma levels with each repeated dose due to slow accumulation of the drug or its metabolites or to slow metabolic degradation. Tolerance to elevated blood levels varies with the status of the patient. Debilitated, elderly patients, and acutely ill patients should be given reduced doses commensurate with their age and physical status. Local anesthetics should also be used with caution in patients with severe disturbances of cardiac rhythm, shock, heart block, or hypotension.

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

Local anesthetic solutions containing a vasoconstrictor should be used cautiously and in carefully restricted quantities in areas of the body supplied by end arteries or having otherwise compromised blood supply such as digits, nose, external ear, penis. Patients with hypertensive vascular disease may exhibit exaggerated vasoconstrictor response. Ischemic injury or necrosis may result.

Mepivacaine should be used with caution in patients with known allergies and sensitivities. Because amide-type local anesthetics such as CARBOCAINE are metabolized by the liver and excreted by the kidneys, these drugs, especially repeat doses, should be used cautiously in patients with hepatic and renal disease. Patients with severe hepatic disease, because of their inability to metabolize local anesthetics normally, are at a greater risk of developing, toxic plasma concentrations. Local anesthetics should also be used with caution in patients with impaired cardiovascular function because they may be less able to compensate for functional changes associated with the prolongation of AV conduction produced by these drugs.

Serious dose-related cardiac arrhythmias may occur if preparations containing a vasoconstrictor such as epinephrine are employed in patients during or following the administration of potent inhalation anesthetics. In deciding whether to use these products concurrently in the same patient, the combined action of both agents upon the myocardium, the concentration and volume of vasoconstrictor used, and the time since inju applicable, should be taken into account.

Many drugs used during the conduct of anesthesia are considered potential triggering agents for familial malignant hyperthermia. Because it is not known whether amide-type local anesthetics may trigger this reaction and because the need for supplemental general anesthesia cannot be predicted in advance, it is suggested that a standard protocol for management should be available. Early unexplained signs of tachycardia, tachypnes, labile blook 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.)

Use In Head and Neck Area

Small doses of local anesthetics injected into the head and neck area may produce adverse reactions similar to systemic toxicity seen with unintentional intravascular injections of larger doses. The injection procedures require the utmost care. Confusion, convulsions, respiratory depression, and/or respiratory arrest, and cardiovascular stimulation or depression have been reported

These reactions may be due to intra-arterial injection 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. 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 caudal or epidural anesthesia. Also, when appropriate, the physician should discuss other information including adverse reactions listed in the package insert on CARBOCAINE.

Clinically Significant Drug Interactions

The administration of local anesthetic solutions containing epinephrine or norepinephrine to patients receiving monoamine oxidase inhibitors or tricyclic antidepressants may produce severe, prolonged hypertension. Concurrent use of these agents should generally be avoided. In situat when concurrent therapy is necessary, careful patient monitoring is essential.

circumstances and under no circumstances should the administration be repeated at intervals of less than 1 1/2 hours. The total dose for any 2A-hour period should not exceed 1,000 mg because of a slow security and an exceeding of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its derivatives or slower than normal metabolic detections of the anesthetic or its detections of the anesthetic o While maximum doses of 7 Mg/kg (650 mg) have been administered without adverse effect, these are not recommended, except in exceptional be reduced for elderly or debilitated patients.

The recommended single dore (or the total of a series of doses given in one procedure) of CARBORANE for unsedated, healthy, The recommended single dose (or the total of a series of doses given in one procedure) so the average sould should for the average is been on requirements for the average is pased on requirements for the average adult and should For specific techniques and procedures, refer to standard textbooks. There have been adverse event reports of chondrolysis in patients receiving intra-articular infusions of local anesthetics following and other surgical procedures. CARBOCAINE is not approved for this use (see WARNINGS and DOSAGE AND ADMINISTRATION).

be administered. Dosages of CARBOCAINE should be reduced for elderly and debilitated patients and patients with cardiac and/or liver disease. The repid injection of a large volume of local anesthetic solution should be avoided and fractional doses should be used when feasible. number of neuronal segments to be blocked, the depth of anesthesia and degree of muscle relaxation required, the duration of anesthesia desired, individual tolerance and the physicial condition of the patient. The smallest dose and concentration required to produce the destred result should

The dose of any local anesthetic administered varies with the anesthetic procedure, the area to be anestheticad, the vascularity of the tissues, the NOITAATSINIMAA ANA 30A200

24.4 mcg/mL. The intravenous and subcutaneous LD₅₀ in mice is 23 mg/kg to 35 mg/kg and 280 mg/kg respectively.

lateral decubitus position if possible, or manual displacement of the uterus off the great vessels be accomplished. The mean subjure dosage of mepivacaine in rhasus monkeys was found to be 18.8 mg/kg with mean afterial plasma concentration of

The supine position is dangerous in pregnant women at term because of aortocaval compression by the gravid uterus. Therefore during treatment of systemic toxicity, maternal hypotension, or fetal bradycardia following regional block, the parturient should be maintained in the left orolonged resuscitative efforts.

earliopulmonary resuscitative measures should be instituted and maintained for a prolonged period if necessary. Recovery has been reported after produce these same signs and also lead to cardiac arrest if ventilatory support is not instituted. It cardiac arrest should occur, standard effects of the local anesthetic may result in cardiac arrhythmias, bradycardia, asystole, ventricular fibrillation, or cardiac arrest. Respiratory abilitation of local anesthetic solution may abilitation of local anesthetic solution and local anesthetic solution may abilitation and local anesthetic solution and local anesthetic solution and local anesthetic solution and a If not treated immediately, convulsions with simultaneous hypoxia, hypercarbia, and acidosis, plus myocardial depression from the direct Joid cardiac arrest.

dreatly increased during local anesthetic convulsions and emphasize the importance of immediate and effective ventilation with oxygen which may Recent clinical data from patients experiencing local anesthetic induced convolsions demonstrated rapid development of hypoxia, hypercarbia, and accident software of the onset of convulsions. These observables suggest that exygen consumption and earbid more than and when the front of the onset of the o

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 or if proinghatory support (assisted or controlled) is indicated.

of the circulation should be evaluated. Supportive treatment of circulatory depression may require administration of intravenous fluids, and when appropriate, a vasopressor dictated by the clinical struation (such as ephedrine or epinephrine to enhance myocardial contractile force). respiratory, and cardiac function, add to postictal depression and may result in apnea. Intravenous barbiturates, anticonvulsant agents, or muscle relaxants should only be administered by those familiar with their use. Immediately after the institution of these ventilatory measures, the adequacy 100 mg of thiopental will permit ventilation and counteract central nervous system stimulation, but these drugs also depress central nervous system; If necessary, use drugs to control the convulsions. A 50 mg to 100 mg bolus IV injection of succinylicholine will paralyse the patient without of 0 mg to 100 mg to 100 mg to 100 mg to 20 mg to 20 mg to 20 mg to 100 m ουνυίειους if they have not aiready occurred.

trevent aritin 100% oxygen with a delivery system capable of permitting immediate positive airway pressure by mask. This may prevent The first step in the management of systemic toxic reactions, as well as underventilation or apnea due to unintentional subarachnoid injection of dug solution, consists of <u>immediate attention</u> to the establishment and maintenance of a parent airway and effective assisted or controlled in the statement and maintenance of a parent airway and effective assisted or controlled in the statement and maintenance of a parent airway and effective assisted or controlled in the statement and maintenance of a parent airway and effective assisted or controlled in the statement and maintenance of a parent airway and effective assisted or controlled in the statement and maintenance of a parent airway and effective assisted or controlled in the statement and the statement a

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. seionegrem2 oitentsenA leool to tnemegeneN

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

30A2008AGE

all of which may have slow, incomplete, or no recovery. Neurologic effects following other procedures or routes of administration may include persistent anesthesia, paresthesia, weakness, paralysis,

recovery; headache; backache; septic meningitis; meningismus; slowing of labor; increased incidence of forceps delivery; cranial nerve from loss of cerebrospinal fluid. Mouration on nerves from loss of cerebrospinal fluid. hypotension secondary to spinal block; urinary retention; fecal and urinary incontinence; loss of perineal sensation and sexual function; persistent anestisteia, parestibasia, weakness, paralysis of the lower extremities, and loss of spinitoter control all of which may have a low, incomplete, or no anestister and the set of the lower extremities, and loss of spinitoter control all of which extra a low, incomp

effects of a dural purcture. A high spinal is characterized by paralysis of the legs, loss of consciousness, respiratory paralysis, and bradycardia. Wourologic effects following epidena is characterized by paralysis in the legs, loss of consciousness, respiratory paralysis, and bradycardia. In the practice of caudal or lumbar epidural block, occasional unintentional penetration of the subarachnoid space by the catheter or needle may occur. Subsequent adverse effects may depend partially on the amount of drug administered intrathecally and the physiciological and physical

sttects may be related to local anesthetic techniques, with or without a contribution from the drug. dministered and are also dependent upon the particular drug used, the route of administration, and the physical status of the patient. Many of these The incidences of adverse neurologic reactions associated with the use of local anesthetics may be related to the total dose of local anesthetic

amide-type local anesthetic group has been reported. The usefulness of screening for sensitivity has not been definitely established.

erythema, angioneurotic edema (including laryngeal edema), tachycardia, sneezing, nausea, vomitting, dizziness, syncope, excessive sweating, elevated temperature, and possibly, anaphylactoid-like symptomatology (including severe hypotension). Cross sensitivity among members of the antimicrobial preservative methylparaben, contained in multiple-dose vials. These reactions are characterized by signs such as urticaria, pruritus, Allergic-type reactions are rare and may occur as a result of sensitivity to the local anesthetic or to other formulation ingredients, such as the วเชิงอุเเษ

output, heart block, hypotension (or sometimes hypertension), bradycardia, ventricular arrhythmias, and possibly cardiac arrest. (See WARNINGS, PRECADTIONS, and OVERDOSAGE sections.) High doses or, inadvertent intravascular injection, may lead to high plasma levels and related depression of the myocardium, decreased cardiac snoitseaA relusevoibre3 dministrations.

a survey of studies of epidural anesthesia, overt toxicity progressing to convulsions occurred in approximately 0.1% of local anesthetic The incidence of convulsions associated with the use of local anesthetics varies with the procedure used and the total dose administered. In This may quickly be followed by drowsiness merging into unconsciousness and respiratory arrest. Other central nervous system effects may be neuses, vomiting, chills, and constriction of the pupils.

These are characterized by excitation and/or depression. Restlessness, anxiety, disziness, tinnitus, blurred vision, or tremors may occur, possibly proceeding to convulsions. However, excitement may be transient or absent, with depression being the first manifestation of an adverse reaction. snoitoseA mətsy2 suovrəN lertnə2

ss acidosis, systemic diseases which alter protein production, or competition of other drugs for protein binding sites, may diminish individual ("Total or High Spinal"). Name to loss of synthesis of synthesis of synthesis of the syn solution. In addition to systemic dose-related toxicity, unintentional subarachnoid injection of drug during the intended performance of caudal or lumbar epidural block or nerve blocks near the vertebral column (especially in the head and neck region) may result in underventilation or apprea system and the cardiovascular system. These adverse experiences are generally dose related and due to high plasma levels which may result from overdosage, rapid absorption from the injection site, diminished tolerance, or from unintentional intravascular injection of the local anesthetic he most commonly encountered acute adverse experiences which demand immediate counter-measures are related to the central nervous

this group of drugs is excessive plasma levels, which may be due to overdosage, inadvertent intravascular injection, or slow metabolic degradation. Peactions to CARBOCAINE are characteristic of those associated with other amide-type local anesthetics. A major cause of adverse reactions to **SNOITDAAR ARACTIONS**

be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Mepivacaine and mepivacaine metabolites are known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may Clinical studies and other reported clinical experience indicates that use of the drug in elderly patients requires a decreased dosage, (see CLINICAL PHARMACOLOCK PRECAUTIONS, General, and DOSAGE AUD ADMINISTRATIOM. Monitorial and the dialy effective constraints of the drug in elderly platent of the studies and the dialy effective constraints and the d

seriatric Use

. NOITART SINIMOA OVA 328200 ni betnesenge are stratised stratised of a construction of motors of the stratised

be exercised when local anesthetics are administered to a nursing woman. Pediatric Use

It is not known whether local anesthetic drugs are excreted in human milk. Because many drugs are excreted in human milk, caution should

vursing Mothers

uterus displaced to the left.

It is extremely important to avoid sortocaval compression by the gravid uterus during administration of regional block to parturients. To do this, the pareitent must be maintisined in the left lateral decubitus position or a blanket roll or sandbag may be placed beneath the right hip and the gravid nterval between sides.

minixem dose of the local anesthetic should not be exceeded. Injection should be made slowly and with frequent aspiration. Allow a five-minute pregnancy las 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 repid. The recommended

or pudendal block or both. Babies so affected present with unexplained neonatal depression at birth which correlates with high local anexthetic serum levels and usually manifest seizures within six hours. Prompt use of supportive measures combined with forced urinary excretion of the local

Cases compatible with unintended fetal intracrainal injection of local anesthetic solution have been reported following intended paracervical

may be associated with fetal acidosis. Fetal heart rate should always be monitored during percentrical anesthesia. Added risk appears to be present in percentrical anesthesia. Fetal heart rate appears to be secordised with fetal acidosis. Fetal heart rate should always be monitored during percentrical anesthesia. Added risk appears to be when considering percentricy, postmaturity, toxemia of pregnancy, and fetal acidosis. Fetal heart rate should always be monitored during percentricy percentricy postmaturity, toxemia of pregnancy, and fetal acidosis. Careful adherence to recommended dosage is of the utmost importance in obstetrical percentrical percentrical percentrical percentrical percentrical percentrical percentrical percentrical acidosis with recommended doses should acuse supprison of intravascular or fetal intractanial percentrical percentrican percentrical percentrical acidosis with recommended doses should acuse supprison of intravascular or fetal intractanial percentrican percent

ι-είει ριεσάγοειαια may ocont in 20 to 30 percent of patients receiving paracervical block anesthesia with the amide-type local anesthetics an

WARNINGS

LOCAL ANESTHETICS SHOULD ONLY BE EMPLOYED BY CLINICIANS WHO ARE WELL VERSED IN DIAGNOSIS AND MANAGEMENT OF

Local anesthetic solutions containing antimicrobial preservatives (i.e., those supplied in multiple-dose vials) should not be used for epidural or caudal anesthesia because safety has not been established with regard to intrathecal injection, either intentionally or inadvertently. of such

day or two of life. The long-term significance of these observations is unknown.

The use of some local anesthetic drug products during labor and delivery may be followed by diminished muscle strength and tone for the first

facilitation of cervical dilation. Epidural anesthesia has been reported to prolong the second stage of labor by removing the parturient's reflex urge to best down or by interfering with motor function. The use of obstetricis langthas is an particism and provide the difference. εχρηιείνε επίοις, πο ότε στισχ, ρείδεσεινισεί διοσκ δηθετηθεία was associated with a decrease in the mean duration of π'rs stage labor and

Epidural, paracervical, caudal, or pudendal anesthesia may alter the forces of parturition through changes in uterine contractility or materna continuously and electronic fetal monitoring is highly advisable.

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

parturient, fetus, and neonate involve alterations of the central nervous system, peripheral vascular tone, and cardiac function. depend upon the procedure performed, the type and amount of drug used, and the technique of drug administration. Adverse reactions in the Local anesthetics rapidly cross the placenta, and when used for epidural, paracervical, caudal, or pudendal block anesthesia, can cause varying degrees of toxicity (See **Pharmacokinetics - CLINICAL PHARMACOLOGY**) The incidence and degree of toxicity degrees of toxicity Vieviled bne roded

tration of vasopressor drugs and of ergot-type oxytocic drugs may cause severe, persistent hype accidents.

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

Carcinogenesis. Mutagenesis. and Impairment of Fertility

Long-term studies in animals of most local anesthetics including mepivacaine to evaluate the carcinogenic potential have not been conducted. Mutagenic potential or the effect on fertility have not been determined. There is no evidence from human data that CARBOCAINE may be carcinogenic or mutagenic or that it impairs fertility.

Pregnancy Category C

Animal reproduction studies have not been conducted with menivacaine. There are no adequate and well-controlled studies in pregnant women of the effect of mepivacaine on the developing fetus. Mepivacaine hydrochloride should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. This does not preclude the use of CARBOCAINE at term for obstetrical anesthesia or analgesia. (See Labor and Delivery.

CARBOCAINE has been used for obstetrical analoesia by the epidural, caudal, and paracervical routes without evidence of adverse effects on the fetus when no more than the maximum safe dosages are used and strict adherence to technique is followed