PROMETHAZINE HYDROCHLORIDE SUPPOSITORIES, USP

Rx Only

DESCRIPTION

Each rectal suppository contains 12.5 mg or 25 mg promethazine HCl with ascordyl palmitate, colloidal silicon dioxide, glyceryl monostearate, hard fat, and white wax. Promethazine HCl suppositories, USP are for rectal administration only. Promethazine HCl sa racemic compound; the empirical formula is C₁,H₂N,S+HCl and its molecular weight is 320.88. Promethazine HCl, a phenothiazine derivative, is designated chemically as 10/H-Phenothiazine, 10-ethanamine, N,N, \(\alpha\)-trimethyl-, monohydrochloride, (\pm\)-with the following sitory contains 12.5 mg or 25 mg promethazine HCl with ascorbyl palmitate, colloidal silicon dioxide, glyceryl monostearate, hard fat, and white wax

structural formula

·HCI

CH2CH(CH3)N(CH3)2



romethazine HCl occurs as a white to faint yellow, practically odd water and freely soluble in alcohol.

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CLINICAL PHARMACOLOGY

Promethazine is a phenothiazine derivative, which differs structurally from the antipsychotic phenothiazines by the presence of a branched side chain and no ring substit. It is thought that this configuration is responsible for its relative lack (1/10 that of chlorpromazine) of dopamine antagonist properties.

Promethazine is an H₁ receptor blocking agent. In addition to its antihistaminic action, it provides clinically useful sedative and antiemetic effects

Promethazine is metabolized by the liver to a variety of compounds; the sulfoxides of promethazine and N-demethylpromethazine are the predominant metabolites apprint the urine.

INDICATIONS AND USAGE

Promethazine HCl Suppositories, USP are useful for:

Perennial and seasonal allergic rhinitis

Vasomotor rhinitis.

Allergic conjunctivitis due to inhalant allergens and foods.

Mild, uncomplicated allernic skin manifestations of unticon

Mild, uncomplicated allergic skin manifestations of lioration of allergic reactions to blood or plasm aria and angioedema

Amelioration of a Dermographism.

Anaphylactic reactions, as adjunctive therapy to epinephrine and other standard measures, after the acute manifestations have been controlled Preoperative, postoperative, or obstetric sedation

Prevention and control of nausea and vomiting associated with certain types of anesthesia and surgery.

Prevention and control or Instased and voluming associated with certain types or aniestnessa and surgery.

Therapy adjunctive to meperfaine or other analgesics for control of postoperative pain.

Sedation in both children and adults, as well as relief of apprehension and production of light sleep from which the patient can be easily and Active and prophylactic treatment of motion sixchess.

Antiemetic therapy in postoperative patients.

CONTRAINDICATIONS

Promethazine HCl Suppositories are contraindicated for use in pediatric patients less than two years of age.

Promethazine HCI Suppositories are contraindicated in comatose states, and in individuals known to be hypersensitive or to have had an idiosyncratic reaction to promethazi or to other phenothiazines.

Antihistamines are contraindicated for use in the treatment of lower respiratory tract symptoms including asthma.

WARNINGS

WARNING

PROMETHAZINE HCL SUPPOSITORIES SHOULD NOT BE USED IN PEDIATRIC PATIENTS LESS THAN 2 YEARS OF AGE BECAUSE OF THE POTENTIAL FOR

FATAL RESPIRATORY DEPRESSION.

POSTMARKETING CASES OF RESPIRATORY DEPRESSION, INCLUDING FATALITIES, HAVE BEEN REPORTED WITH USE OF PROMETHAZINE HCL SUPPOSITORIES IN PEDIATRIC PATIENTS LESS THAN 2 YEARS OF AGE. A WIDE RANGE OF WEIGHT-BASED DOSES OF PROMETHAZINE HCL SUPPOSITORIES HAVE RESULTED IN RESPIRATORY DEPRESSION IN THESE PATIENTS. CALITION SHOULD BE EXERCISED WHEN ADMINISTERING PROMETHAZINE HOLTO PEDIATRIC PATIENTS 2 YEARS OF AGE AND OLDER

IT IS RECOMMENDED THAT THE LOWEST EFFECTIVE DOSE OF PROMETHAZINE NCI. BE USED IN PEDIATRIC PATIENTS 2 YEARS OF AGE AND OLDER AND CONCOMITANT ADMINISTRATION OF OTHER DRUGS WITH RESPIRATORY DEPRESSANT EFFECTS BE AVOIDED.

CNS Depression

Promethazine HCI Suppositories may impair the mental and/or physical abilities required for the performance of potentially hazardous tasks, such as driving a vehicle or operating machinery. The impairment may be amplified by concomitant use of other central-nervous-system depressants such as alcohol, sedatives/ hypnotics (including netics, tricyclic antidepressants, and tranquilizers; therefore, such agents should either be eliminated or given in barbiturates), narcotics, narcotic analgesics, general anesti reduced dosage in the presence of promethazine HCl (see PRECAUTIONS-Information for Patients and Drug Interactions

Respiratory Depression nethazine HCl Suppositories may lead to potentially fatal respiratory depression

Use of Promethazine HCl Suppositories in patients with compromised respiratory function (e.g., COPD, sleep apnea) should be avoided.

Lower Seizure Threshold

Promethazine HCI Suppositories may lower seizure threshold. It should be used with caution in persons with seizure disorders or in persons who are using concomitant medications, such as narcotics or local anesthetics, which may also affect seizure three Bone-Marrow Depression

Promethazine HCl Suppositories should be used with cautio promethazine HCl has been used in association with other k positories should be used with caution in patients with bone-marrow depression. Leukopenia and agranulocytosis have been reported, usually when been used in association with other known marrow-toxic agents.

Neuroleptic Malignant Syndrome
A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with promethazine HCI alone or in combination with antipsychotic drugs. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis and cardiac dysrhythmias). The diagnostic evaluation of patients with this syndrome is complicated. In arriving at a diagnosis, it is it mportant to identify cases

both serious medical illnesses (e.g., pneumonia, systemic infection, etc.) and untreated or inadequately treated extrapyramidal signs and symptoms (EPS). Other important considerations in the differential diagnosis include central anticholinergic toxicity, heat stroke, drug fever and primary central nervous system (CNS) pathology. The management of NMS should include 1) immediate discontinuation of promethazine HCl, antipsychotic drugs, if any, and other drugs not essential to concurrent the

2) intensive symptomatic treatment and medical monitoring, and 3) treatment of any concomitant serious medical problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for uncomplicated NMS.

Since recurrences of NMS have been reported with phenothiazines, the reintroduction of promethazine HCI should be carefully considered.

Use in Pediatric Patients
Promethazine HCL suppositories are contraindicated for the USE in Pediatric Patients less than two years of Age.

CAUTION SHOULD BE EXERCISED WHEN ADMINISTERING PROMETHAZINE HCL SUPPOSITORIES TO PEDIATRIC PATIENTS 2 YEARS OF AGE AND OLDER BE-CAUSE OF THE POTENTIAL FOR FATAL RESPIRATORY DEPRESSION. RESPIRATORY DEPRESSION AND APNEA, SOMETIMES ASSOCIATED WITH DEATH, ARE CAUSE OF THE POTENTIAL FUR PAIAL RESPIRATORY DEPRESSION. RESPIRATORY DEPRESSION AND APPREA, SUMETIMES ASSUCIATED WITH DEATH,
STRONGLY ASSOCIATED WITH PROMETHAZINE PRODUCTS AND ARE NOT DIRECTLY RELATED TO INDIVIDUALIZED WEIGHT-BASED DOSING, WHICH M
OTHERWISE PERMIT SAFE ADMINISTRATION. CONCOMITANT ADMINISTRATION OF PROMETHAZINE PRODUCTS WITH OTHER RESPIRATORY DEPRESS.
HAS AN ASSOCIATION WITH RESPIRATORY DEPRESSION, AND SOMETIMES DEATH, IN PEDIATRIC PATIENTS.

ANTIEMETICS ARE NOT RECOMMENDED FOR TREATMENT OF UNCOMPLICATED VOMITING IN PEDIATRIC PATIENTS, AND THEIR USE SHOULD BE LIMITED TO PROLONGED VOMITING OF KNOWN ETIOLOGY. THE EXTRAPYRAMIDAL SYMPTOMS WHICH CAN OCCUR SECONDARY TO PROMETHAZINE RCL. SUPPOSITORIES ADMINISTRATION MAY BE CONFUSED WITH THE CRS SIGNS OF UNDIAGNOSED PRIMARY DISEASE, E.G., ENCEPHALOPATHY OR REYE'S SYNDROME THE USE OF PROMETHAZINE RCL SUPPOSITORIES SHOULD BE AVOIDED IN PEDIATRIC PATIENTS WHOSE SIGNS AND SYMPTOMS MAY SUGGEST REYE'S SYNDROME OR OTHER HEPATIC DISEASES.

s, in pediatric patients may cause sudden death (see OVERDOSAGE). Hallucinations and Excessively large dosages of antihistamines, including Promethazine HCl Supposito convulsions have occurred with therapeutic doses an d overdoses of promethazine HCl in pediatric patients. In pediatric patients who are acutely ill associated with dehydration. there is an increased susceptibility to dystonias with the use of pro nethazine HC

Other Considerations

ethazine HCl has been associated with reported cholestatic jaundice

PRECAUTIONS

veneral

Drugs having anticholinergic properties should be used with caution in patients with narrow-angle glaucoma, prostatic hypertrophy, stenosing peptic ulcer, pyloroduoder
obstruction, and bladder-neck obstruction.

Promethazine HCl Suppositories should be used cautiously in persons with cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with impairment of liver fundamental programment of the cardiovascular disease or with the cardiovascular disease or with the cardiovascular disease or with the cardiovascular disease of the cardiovascular disease or with the car Information for Patients
Promethazine HCl Suppositories may cause marked dro

as driving a vehicle or operating machinery. The use of alcohol or other central-nervous-system depressants such as sedatives/hypnotics (including barbiturates), narcotics, narcotics, analysiss, general anesthetics, tripcilc artificpressants, and transqualizers, may entenance impairment (see WARNINGS-CNS Depression and PRECAUTIONS-Drug Interactions). Pediatric patients should be supervised to avoid potential harm in bike riding or other hazardous activities.

The concomitant use of alcohol or other central nervous system depressants, including narcotic analoesics, sedatives, hypnotics, and tranquilizers, may have an additive effect and should be avoided or their dosage reduced.

Patients should be advised to report any involuntary muscle movements

Avoid prolonged exposure to the sun

Drug Interactions

CNS Depressants – Promethazine HCl Suppositories may increase, prolong, or intensify the sedative action of other central-nervous-system depressants, such as alcohol, sedatives/hypnotics (including barbiturates), narcotics, narcotic analgesics, general anesthetics, tricyclic antidepressants, and tranquilizers; therefore, such agents should be avoided or administered in reduced dosage to patients receiving promethazine HCI. When given concomitantly with Promethazine HCI suppositories, the dose of barbiturates should be reduced by at least one-half, and the dose of narcotics should be reduced by one-quarter to one-half. Rosage must be individualized. Excessive amounts of promethazine HCI relative to a narcotic may lead to restlessness and motor hyperactivity in the patient with pain; these symptoms usually disappear with adequate control of the pain.

Epinephrine – Because of the potential for prowith Promethazine HCl Suppositories overdose. ntial for promethazine HCI to reverse epinephrine's vasopressor effect, epi

Anticholinergics - Concomitant use of other agents with anticholinergic properties should be undertaken with caution.

Monoamine Oxidase Inhibitors (MAOI) – Drug interactions, including an increased incidence of extrapyramidal effects, have been reported when some MAOI and phenothiazines are used concomitantly. This possibility should be considered with Promethazine HCI Suppositories.

Drug/Laboratory Test Interactions
The following laboratory tests may be affected in patients who are receiving the

Pregnancy Tests

Diagnostic pregnancy tests based on immunological reactions between HCG and anti-HCG may result in false-negative or false-positive interpretation

Glucose Tolerance Test
An increase in blood glucose has been reported in patients receiving promethazine I

Carcinogenesis, Mutagenesis, Impairment of Fertility
Long-term animal studies have not been performed to assess the carcinogenic potential of promethazine, nor are there other animal or human data concerning carcinogenic mutagenicity, or impairment of fertility with this drug. Promethazine was nonmutagenic in the Salmonella test system of Ames.

Pregnancy
Teratogenic Effects - Pregnancy Category C

Teratogenic effects have not been demonstrated in rat-feeding studies at doses of 6.25 and 12.5 mg/kg of promethazine. These doses are from approximately 2.1 to 4.2 times the maximum recommended total daily dose of promethazine for a 50-kg subject, depending upon the indication for which the drug is prescribed. Daily doses of 25 mg/kg intraperitoneally have been found to produce fetal mortality in rats.

Specific studies to test the action of the drug on parturition, lactation, and development of the animal neonate were not done, but a ger no effect on these parameters. Although antihistamines have been found to produce fetal mortality in rodents, the pharmacological effects of histamine in the rodent do not parallel those in man. There are no adequate and well-controlled studies of Promethazine HCl Suppositories in pregnant women.

Promethazine HCl Suppositories should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

Nonteratogenic Effects

Promethazine HCl Suppositories administered to a pregnant woman within two weeks of delivery may inhibit platelet aggregation in the newborn

Labor and Delivery

Promethazine HCl may be used alone or as an adjunct to narcotic analgesics during labor and delivery. (See "DOSAGE AND ADMINISTRATION"). Limited data suggest that use of promethazine HCl during labor and delivery does not have an appreciable effect on the duration of labor or delivery and does not increase the risk of need for intervention use of promethazine HCl during labor and delivery does not have an app in the newborn. The effect on later growth and development of the newborn is unknown. (See also Nonteratogenic Effects.)

Nursing Mothers

It is not known whether promethazine HCl is excreted in human milk. Because many drups are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from Promethazine HCl Suppositories, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use

PEDIATION USE

PROMETHAZINE HCL SUPPOSITORIES ARE CONTRAINDICATED FOR USE IN PEDIATRIC PATIENTS LESS THAN TWO YEARS OF AGE (see WARNINGS-Black Box Warning and Use in Pediatric Patients).

Promethazine HCl Suppositories should be used with caution in pediatric patients 2 years of age and older (see WARNINGS - Use in Pediatric

Geriatric Use

Clinical studies of promethazine formulations did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of con-

Sedating drugs may cause confusion and over-sedation in the elderly; elderly patients generally should be started on low doses of promethazine HCl suppositories and observed clos

ADVERSE REACTIONS

comitant disease or other drug therapy.

Central Nervous System Drowsiness is the most pro

Torowsiness is the most prominent CNS effect of this drug. Sedation, somnolence, blurred vision, dizziness; confusion, disorientation, and extrapyramidal symptoms such as oculogytic crisis, torticollis, and tongue protrusion; lassitude, tinnitus, incoordination, fatigue, euphoria, nervousness, diplopia, insomnia, tremors, convulsive seizures, excitation, catatonic-like states, hysteria. Hallucinations have also been reported.

Cardiovascular - Increased or decreased blood pressure, tachycardia, bradycardia, faintness

Dermatologic - Dermatitis, photosensitivity, urticaria.

Hematologic - Leukopenia, thrombocytopenia, thrombocytopenic purpura, agranulocytosis

Gastrointestinal - Dry mouth, nausea, vomiting, jaundice,

Respiratory - Asthma, nasal stuffiness, respiratory depression (potentially fatal) and apnea (potentially fatal), (See WARNINGS-Respiratory Depression).

Other – Angioneurotic edema. Neuroleptic malignant syndrome (potentially fatal) has also been reported (See WARNINGS–Neuroleptic Malignant Syndrome).

Hyperexcitability and abnormal movements have been reported in patients following a single administration of promethazine HCI. Consideration should be given to the dis-

continuation of promethazine HCl and to the use of other druos if these reactions occur. Respiratory depression, nightmares, delirium, and agitated behavior have also been reported in some of these patients. TO report SUSPECTED ADVERSE REACTIONS, contact G&W Laboratories, Inc. at 1-800-922-1038 or FDA at 1-800-FDA-1088 or

w.fda.gov/medwatch

OVERDOSAGE

and symptoms of overdosage with promethazine HCl range from mild depression of the central nervous system and cardiovascular system to profound hypotension, ratory depression, and unconsciousness, and sudden death. Other reported reactions include hyperreflexia, hypertonia, ataxia, athetosis, and extensor-plantar reflexes

Stimulation may be evident, especially in children and geriatric patients. Convulsions may rarely occur. A paradoxical-type reaction has been reported in children receiving single doses of 75 mg to 125 mg orally, characterized by hyperexcitability and nightmares. Atropine-like signs and symptoms-dry mouth, fixed, dilated pupils, flushing, as well as gastrointestinal symptoms-may occur.

Treatment

Treatment of overdosage is essentially symptomatic and supportive. Only in cases of extreme overdosage or individual sensitivity do vital signs, including respiration, pulse, blood pressure, temperature, and EKG, need to be monitored. Activated charcoal orally or by lavage may be given, or sodium or magnesium sulfate orally as a cathartic. Attention should be given to the reestablishment of adequate respiratory exchange through provision of a patent airway and institution of assisted or controlled ventilation. Diazepam may be used to control convulsions. Acidosis and electrolyte losses should be corrected. Note that any depressant effects of promethazine HCl are not reversed by naloxone. Avoid analeptics, which may cause convulsions.

The treatment of choice for resulting hypotension is administration of intravenous fluids, accompanied by repositioning if indicated. In the event that vasopressors are co ered for the management of severe hypotension that does not respond to intravenous fluids and repositioning, the administration of norepinephrine or phenylephrine should be considered. EPINEPHRINE SHOULD NOT BE USED, since its use in patients with partial adrenergic blockade may further lower the blood pressure. Extrapyramidal reactions may be treated with anticholinergic antiparkinsonian agents, diphenhydramine, or barbiturates. Oxygen may also be administered. Limited experience with dialysis indicates that it is not helpful.

DOSAGE AND ADMINISTRATION

Prometha Patients). azine HCI Rectal Suppositories are contraindicated for children under 2 years of age (see WARNINGS-Black Box Warning and Use in Pediatric Promethazine HCl Suppositories are for rectal administration only

Allergy

The average dose is 25 mg taken before retiring; however, 12.5 mg may be taken before meals and on retiring, if necessary. Single 25-mg doses at bedtime or 6.25 to 12.5 mg taken three times daily will usually suffice. After initiation of treatment in children or adults, doseage should be adjusted to the smallest amount adequate to relieve symptoms. The administration of promethazine hydrochloride in 25-mg doses will control minor transfusion reactions of an allergic nature.

The average adult dose is 25 mg taken twice daily. The initial dose should be taken one-half to one hour before anticipated travel and be repeated 8 to 12 hours later, if necessary. On succeeding days of travel, it is recommended that 25 mg be given on arising and again before the evening meal. For children, Promethazine HCl Rectal Suppositories, 12.5 to 25 mg, twice daily, may be administered.

Nausea and Vomiting Antiemetics should not be used in vomiting of unknown etiology in children and adolescents (see WARNINGS- Use in Pediatric Patients).

The average effective dose of promethazine HCl for the active therapy of nausea and vomiting in children or adults is 25 mg. 12.5- to 25-mg doses may be repeated, as

necessary, at 4- to 6-hour intervals. For nausea and vomiting in children, the usual dose is 0.5 mg per pound of body weight, and the dose should be adjusted to the age and weight of the patient and the severity

For prophylaxis of nausea and vomiting, as during surgery and the postoperative period, the average dose is 25 mg repeated at 4- to 6-hour intervals, as necessary.

Sedation

This product relieves apprehension and induces a quiet sleep from which the patient can be easily aroused. Administration of 12.5 to 25 mg promethazine HCl by rectal suppository at bedtime will provide sedation in children. Adults usually require 25 to 50 mg for nighttime, presurgical, or obstetrical sedation

Pre- and Postopertive Use

of the condition being treated

Promethazine HCl in 12.5- to 25-mq doses for children and 50-mg doses for adults the night before surgery relieves apprehension and produces a quiet sleep

For preoperative medication children require doses of 0.5 mg per pound of body weight in combination with an appropriately reduced dose of narcotic or barbiturate and the appropriate dose of an atropine-like drug. Usual adult dosage is 50 mg promethazine HCl with an appropriately reduced dose of narcotic or barbiturate and the required amount of a belladonna alkaloid.

Postoperative sedation and adjunctive use with analgesics may be obtained by the administration of 12.5 to 25 mg in children and 25- to 50-mg doses in adults

Promethazine HCl Rectal Suppositories are not recommended for children under 2 years of age.

HOW SUPPLIED

ne HCl Rectal Suppositories, USP are available in boxes of 12 as follow 12.5 mg, white, bullet-shaped suppository wrapped in silver foil. Box of 12 25 mg, white, bullet-shaped suppository wrapped in silver foil. Box of 12 25 mg, white, bullet-shaped suppository wrapped in silver foil. Box of 12 NDC 51672-5296-1

Store refrigerated between 2°-8°C (36°-46°F).

Dispense in well-closed container.

Mfd. by: G&W Laboratories Inc., South Plainfield, NJ 07080 Dist. by: **Taro Pharmaceuticals U.S.A., Inc.**, Hawthorne, NY 10532 8-PROMTRO1

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