

chlorproMAZINE Hydrochloride Injection, USP

WARNING

Increased Mortality in Elderly Patients with Dementia-Related Psychosis Elderly patients with dementia-related

psychosis treated with antipsychotic drugs are at an increased risk of death. Analyses of seventeen placebo-controlled trials (modal duration of 10 weeks), largely in patients taking atypical antipsychotic drugs revealed a risk of death in drug-treated patients of between 1.6 to 1.7 times the risk of death in placeho-treated natients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to he either cardiovascular (e.g. heart failure sudden death) or infectious (e.g., pneumonia in nature. Observational studies sugge that, similar to atypical antipsychotic drugs. treatment with conventional antinsychotic drugs may increase mortality. The extent to which the findings of increased mortality in observational studies may be attributed to the antipsychotic drug as opposed to some characteristic(s) of the patients is not clear Chlorpromazine Hydrochloride Injection, is not approved for the treatment of patients with

dementia-related psychosis (see WARNINGS)

DESCRIPTION Chlororomazine HCL is chemically designated as 2-Chloro-10-[3-(dimethylamino)propyl phenothiazine monohydrochloride and has the following structural formula:

Chlorpromazine Hydrochloride Injection IISP is a sterile aqueous solution intended for deep intramuscular use. Each mL contains chlororomazine hydrochloride 25 mg. ascorbic acid 2 mg, sodium metabisulfite 1 mg, sodium

for Injection. pH is 3.4-5.4.

CLINICAL PHARMACOLOGY The precise mechanism whereby the therapeutic effects of chlororomazine are produced is not known. The principal pharmacological actions are psychotropic. It also exerts sedative and antiemetic activity. Chlorpromazine has actions at all levels of the central nervous systemprimarily at subcortical levels-as well as on

multiple organ systems. Chlorpromazine has

sulfite 1 mg and sodium chloride 6 mg in Water

strong antiadrenergic and weaker peripheral anticholinergic activity: ganglionic blocking action is relatively slight. It also possesses slight antihistaminic and antiserotonin activity

INDICATIONS AND USAGE

For the treatment of schizophrenia: to control nausea and vomiting: for relief of restlessness and apprehension before surgery; for acute intermittent porphyria; as an adjunct in the treatment of tetanus: to control the manifestations of the manic type of manic-depressive illness: for relief of intractable biccups: for the treatment of severe hehavioral problems in children (1 to 12 years of age) marked by combativeness and/or explosive hyperexcitable behavior (out of proportion to immediate provocations), and in the short-term treatment of hyperactive children who show excessive motor activity with accompanying conduct disorders consisting of some or all of the following symptoms: impulsivity, difficulty sustaining attention, aggressivity, mood lability. and poor frustration tolerance.

CONTRAINDICATIONS Do not use in patients with known hypersensitivity

to phenothiazines. Do not use in comatose states or in the presence of large amounts of central nervous system depressants (alcohol, barbiturates, parcotics, etc.

WARNINGS

Increased Mortality in Flderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Chlororomazine Hydrochloride Injection is not approved for the treatment of patients with dementia-related

psychosis (see BOXED WARNING) The extrapyramidal symptoms which can occur secondary to chlorpromazine may be confused with the central nervous system signs of an

undiagnosed primary disease responsible for syndrome and thereby may possibly mask the

the vomiting, e.g., Reve's syndrome or other encephalopathy. The use of chlorpromazine and other potential hepatotoxins should be avoided in children and adolescents whose signs and symptoms suggest Reve's syndrome.

Chlororomazine Hydrochloride Injection contains sodium metabisulfite and sodium sulfite, sulfites that may cause allergic-type reactions including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic than in nonasthmatic people.

Tardive Dyskinesia

Tardive dyskinesia, a syndrome consisting of potentially irreversible, involuntary, dyskinetic movements, may develop in patients treated with antipsychotic drugs. Although the prevalence of the syndrome appears to be highest among the elderly especially elderly women it is impossible to rely upon prevalenc eestimates to predict, a the inception of antipsychotic treatment, which patients are likely to develop the syndrome. Whether antipsychotic drug products differ in their potential to cause tardive dyskinesia is unknown. Both the risk of developing the syndrome and the likelihood that it will become irreversible are believed to increase as the duration of treatment and the total cumulative dose of antipsychotic drugs administered to the patient increase However, the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doses.

There is no known treatment for established cases of tardive dyskinesia, although the syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment itself, however, may suppress (or partially suppress) the signs and symptoms of the underlying disease process. The effect that Other important considerations in the differential symptomatic suppression has upon the long-term diagnosis include central anticholinergic toxicity. course of the syndrome is unknown. heat stroke, drug fever and primary central

Given these considerations, antineychotics should

reassessed periodically

presence of the syndrome.

and ADVERSE REACTIONS

For further information about the description

of tardive dyskinesia and its clinical detection.

please refer to the sections on PRECAUTIONS

A potentially fatal symptom complex sometimes

referred to as Neurolentic Malignant Syndrome

(NMS) has been reported in association 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.

The diagnostic evaluation of natients with

this syndrome is complicated. In arriving at a

diagnosis, it is important to identify cases where

the clinical presentation includes both serious

medical illness (e.g., pneumonia, systemic

infection, etc.) and untreated or inadequately

diaphoresis and cardiac dysrhythmias)

Neuroleptic Malignant Syndrome (NMS)

be prescribed in a manner that is most likely to The management of NMS should include minimize the occurrence of tardive dyskinesia immediate discontinuation of antinsychotic Chronic antipsychotic treatment should generally drugs and other drugs not essential to concurrent be reserved for patients who suffer from a chronic therapy, 2) intensive symptomatic treatment illness that 1) is known to respond to antinsychotic and medical monitoring and 3) treatment of any drugs, and, 2) for whom alternative, equally concomitant serious medical problems for which effective, but potentially less harmful treatments specific treatments are available. There is no are not available or appropriate. In patients who general agreement about specific pharmacologica do require chronic treatment, the smallest dose eatment regimens for uncomplicated NMS and the shortest duration of treatment producing a satisfactory clinical response should be sought If a patient requires antipsychotic drug

nervous system (CNS) nathology

The need for continued treatment should be treatment after recovery from NMS, the notential reintroduction of drug therapy should be carefully considered. The nationt should be carefully If signs and symptoms of tardive dyskinesia monitored, since recurrences of NMS have been annear in a natient on antinsychotics drug discontinuation should be considered. However. some natients may require treatment despite the

syndrome (NMS).

weakness, lethargy, fever, tremulousness and confusion extrapyramidal symptoms, leukocytosis, elevated serum enzymes BLIN and ERS) has occurred in a few natients treated with lithium plus an antipsychotic. In some instances, the syndrome was followed by irreversible brain damage Recause of a possible causal relationship between these events and the concomitant administration of lithium and antinsychotics, natients receiving such combined therapy should be monitored closely for early evidence of neurologic toxicity and treatment discontinued promptly if such signs appear. This encephalopathic syndrome may be similar to or the same as neuroleptic malignant

An encenhalonathic syndrome (characterized by

Patients with bone marrow depression or who have previously demonstrated a hypersensitivity reaction (e.g., blood dyscrasias, jaundice) with a phenothiazine should not receive any phenothiazine, including chlorpromazine, unless treated extrapyramidal signs and symptoms (EPS). in the judgment of the physician the potential

henefits of treatment outweigh the possible

Chlororomazine may impair mental and/or nhysical abilities, especially during the first few days of therapy. Therefore, caution natients about activities requiring alertness (e.g., operating vehicles or machinery).

The use of alcohol with this drug should avoided due to possible additive effects and hypotension.

Chlorpromazine may counteract th antihynertensive effect of quanethidine and related compounds

Chlororomazine may cause somnolence, postural hypotension, motor and sensory instability, which may lead to falls and, consequently, fractures or other injuries. For patients with diseases. conditions or medications that could exacerbat these effects, complete fall risk assessments when initiating antipsychotic treatment and recurrently for patients on long-term antipsychotic therapy.

Pregnancy

NON-TERATOGENIC FEECTS Neonates exposed to antipsychotic drugs, during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptom following delivery. There have been reports of agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress and feeding disorder in these neonates. These complications have varied in severity, while in some cases symptoms have been self-limited, in other cases neonates have required intensive care unit support

and prolonged hospitalization Chlorpromazine Hydrochloride should be used during pregnancy only if the potential benefit

iustifies the potential risk to the fetus.

Usage in Pregnancy Safety for the use of chlororomazine during pregnancy has not been established. Therefore it is not recommended that the drug he given to pregnant patients except when, in the judgment of the physician, it is essential. The potential benefits should clearly outweigh possible hazards. There are reported instances of prolonged jaundice. extrapyramidal signs, hyperreflexia or hyporeflexia in newhorn infants whose mothers received

Reproductive studies in rodents have demonstrated notential for embryotoxicity increased neonatal mortality and nursing transfer of the drug. Tests in the offspring of the drug-treated rodents demonstrate decreased performance. The possibility of permanent neurological damage cannot be excluded.

There is evidence that chlororomazine is excreted n the breast milk of nursing mothers. Because of the notential for serious adverse reactions in nursing infants from chlorpromazine, 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.

PRECAUTIONS Leukopenia, Neutropenia and Agranulocytosis

n clinical trial and postmarketing experience events of leukonenia/neutronenia and agranulocytosis have been reported temporally elated to antipsychotic agents.

Possible risk factors for leukonenia/neutronenia nclude preexisting low white blood cell count (WBC) and history of drug induced leukopenia/ neutronenia. Patients with a preexisting low WBC or a history of drug induced leukopenia/ neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and should discontinue Chlororomazine Hydrochloride Injection at the first sign of a decline in WBC in the absence of other

causative factors. Patients with neutropenia should be carefully monitored for fever or other symptoms or signs of

infection and treated promptly if such symptoms or signs occur. Patients with severe neutronenia. (absolute neutrophil count <1000/mm³) should discontinue Chlororomazine Hydrochloride Injection and have their WBC followed until recovery.

Chlororomazine should be administered cautiously

12 years of age). Recause chlororomazine can suppress the cough.

reflex, aspiration of vomitus is possible. Chlorpromazine prolongs and intensifies the action of CNS depressants such as anesthetics. barbiturates and narcotics. When chlororomazine is administered concomitantly, about 1/4 to 1/2 the usual dosage of such agents is required When chlorpromazine is not being administered to reduce requirements of CNS depressants. is best to stop such depressants before starting chlorpromazine treatment. These agents may subsequently be reinstated at low doses and

increased as needed

Note: Chlororomazine does not intensify the anticonvulsant action of harbiturates. Therefore dosage of anticonvulsants, including harbiturates should not be reduced if chlororomazine is started Instead, start chlororomazine at low doses and increase as needed

Use with caution in persons who will be exposed

to extreme heat, organophosphorus insecticides

and in persons receiving atropine or related drugs.

Antipsychotic drugs elevate projectin levels: the

elevation persists during chronic administration.

Tissue culture experiments indicate that

approximately 1/3 of human breast cancers are

prolactin-dependent in vitro, a factor of potential

importance if the prescribing of these drugs is

contemplated in a patient with a previously

detected breast cancer. Although disturbances

such as galactorrhea, amenorrhea, gynecomastia

and impotence have been reported, the clinical

significance of elevated serum prolactin levels

s unknown for most patients. An increase in

mammary neoplasms has been found in rodents

after chronic administration of antinsychotic

drugs. Neither clinical nor enidemiologic studies.

conducted to date, however, have shown an

association between chronic administration of

these drugs and mammary tumorigenesis; the

available evidence is considered too limited to be

Given the likelihood that some patients exposed chronically to antinsychotics will develop tardive dyskinesia, it is advised that all patients in whom chronic use is contemplated be given. if nossible full information about this risk. The decision to inform patients and/or their quardians must obviously take into account the clinical circumstances and the competency of the patient to understand the information provided.

to persons with cardiovascular, liver or renal disease. There is evidence that natients with a history of henatic encenhalonathy due to cirrhosis have increased sensitivity to the CNS effects of chlorpromazine (i.e. impaired cerebration and abnormal slowing of the EEG).

Recause of its CNS depressant effect chlororomazine should be used with caution in patients with chronic respiratory disorders such as severe asthma, emphysema and acute respiratory infections, particularly in children (1 to

Chromosomal aberrations in spermatocytes and

abnormal sperm have been demonstrated in rodents treated with certain antipsychotics. As with all drugs which exert an anticholinergic effect and/or cause mydriasis chlororomazine should be used with caution in patients with

conclusive at this time

Chlororomazine diminishes the effect of oral

Phenothiazines can produce alpha-adrenergic

Chlorpromazine may lower the convulsive threshold: dosage adjustments of anticonvulsants

may be necessary. Potentiation of anticonvulsant. Known to cause psychic dependence and does effects does not occur. However, it has been reported that chlororomazine may interfere with the metabolism of phenytoin and thus precipitate phenytoin toxicity.

Concomitant administration with propranolol results in increased plasma levels of both drugs.

Thiazide diuretics may accentuate the orthostatic hypotension that may occur with phenothiazines. The presence of phenothiazines may produce false-nositive phenylketonuria (PKU) test results. Drugs which lower the seizure threshold including phenothiazine derivatives. should not be used with metrizamide As with other phenothiazine derivatives. chlorpromazine should be discontinued at least 48 hours before myelography, should not resumed for at least 24 hours postprocedure, and should not be used for the control of nausea a

Long-Term Therapy To lessen the likelihood of adverse reaction related to cumulative drug effect, patients with a history of long-term therapy with chlorpromazine and/or other antipsychotics should be evaluated neriodically to decide whether the maintenance dosage could be lowered or drug therapy

discontinued.

postprocedure with metrizamide.

Antiemetic Effect The antiemetic action of chlorpromazine may mask the signs and symptoms of overdosage of other drugs and may obscure the diagnosis and treatment of other conditions such as intestinal obstruction, brain tumor and Reye's syndrome

(See WARNINGS.) When chlorpromazine is used with cance chemotherapeutic drugs, vomiting as a sign of

the toxicity of these agents may be obscured by the antiemetic effects of chlororomazine.

Abrupt Withdrawal

Like other phenothiazines, chlorpromazine is not

not produce tolerance or addiction. There may be, however, following abrupt withdrawal of highdose therapy, some symptoms resembling those of physical dependence such as gastritis, nausea and vomiting, dizziness and tremulousness. These symptoms can usually be avoided or reduced by gradual reduction of the dosage or by continuing concomitant anti-parkinsonism agents for several weeks after chlorpromazine is withdrawn. ADVERSE REACTIONS

may be more likely to occur or occur with greater intensity, in patients with special medical problems, e.g., patients with mitral insufficiency or pheochromocytoma have experienced severe hypotension following recommended doses.

Note: Some adverse effects of chlororomazine

Drowsiness, usually mild to moderate, may occur. narticularly during the first or second week, after vomiting occurring either prior to myelography which it generally disappears. If troublesome dosage may be lowered

Jaundice.

Overall incidence has been low, regardless of ndication or dosage. Most investigators conclude it is a sensitivity reaction. Most cases occur between the second and fourth weeks of therapy. The clinical nicture resembles infectious benatitis with laboratory features of obstructive iaundice. rather than those of parenchymal damage. It is usually promptly reversible on withdrawal of the medication: however, chronic jaundice has been

There is no conclusive evidence that preexisting liver disease makes patients more susceptible to iaundice. Alcoholics with cirrhosis have been successfully treated with chlororomazine without complications. Nevertheless, the medication should be used cautiously in patients with liver disease. Patients who have experienced jaundice. with a phenothiazine should not, if possible, he reexposed to chlorpromazine or other

If fever with grinne-like symptoms occurs appropriate liver studies should be conducted If tests indicate an abnormality, stop treatment.

Liver function tests in jaundice induced by the drug may mimic extrahepatic obstruction: withhold exploratory laparotomy until extrahepatic obstruction is confirmed.

Hematological Disorders, including agranulocytosis, eosinophilia, leukopenia, hemolytic anemia, aplastic anemia, thrombocytopenic purpura and pancytopenia have been reported

AGRANIII OCYTOSIS

Warn natients to report the sudden appearance of sore throat or other signs of infection. If white blood cell and differential counts indicate cellular depression, stop treatment and start antibiotic and

other suitable therapy. Most cases have occurred between the 4th and 10th weeks of therapy; patients should be

watched closely during that period. Moderate suppression of white blood cells is not an indication for stopping treatment unless accompanied by the symptoms described above.

Cardiovascular

HYPOTENSIVE FEFECTS

Postural hypotension, simple tachycardia. momentary fainting and dizziness may occur after are discussed in the following paragraphs:

the first injection: occasionally after subsequent injections: rarely after the first oral dose. Usually recovery is spontaneous and symptoms disappear within 1/2 to 2 hours. Occasionally, these effects. may be more severe and prolonged, producing a

To minimize hypotension after injection, keep patient lying down and observe for at least 1/2 hour. To control hypotension, place patient in head-low position with legs raised. If a vasoconstrictor is required, norepinephrine and phenylephrine are the most suitable. Other pressor agents, including epinephrine, should not be used as they may cause a paradoxical further lowering of blood pressure.

shock-like condition.

Particularly nonspecific usually reversible 0 and T wave distortions-have been observed in some patients receiving phenothiazine tranquilizers.

including chlorpromazine Note: Sudden death, apparently due to cardiac

arrest, has been reported

CNS Reactions NEUROMUSCULAR (EXTRAPYRAMIDAL)

Neuromuscular reactions include dystonia, motor restlessness, pseudo-parkinsonism and tardive dyskinesia and annear to be dose-related. They

occur in susceptible individuals during the first few days of treatment. Dystonic symptoms include: snasm of the neck muscles, sometimes progressing to tightness of the throat, swallowing difficulty, difficulty breathing, and/or protrusion of the tongue. While these symptoms can occur at low doses, they occur more frequently and with greater severity with high potency and at higher doses of first generation antipsychotic drugs. An

males and younger age groups.

Motor Restlessness

Dystonia

Symptoms may include agitation or litteriness and sometimes insomnia. These symptoms often disannear spontaneously. At times these symptoms may be similar to the original neurotic or psychotic symptoms

elevated risk of acute dystonia is observed in

Class effect: Symptoms of dystonia, prolonge

abnormal contractions of muscle groups, may

Dosage should not be increased until these side effects have subsided

If these symptoms become too troublesome they can usually be controlled by a reduction of dosage or change of drug. Treatment with anti-parkinsonian agents, benzodiazenines or propranolol may be helpful.

Pseudo-narkinsonism

or to discontinue the drug.

Symptoms may include: mask-like facies drooling, tremors, pillrolling motion, cogwheel rigidity and shuffling gait. In most cases, these symptoms are readily controlled when an antiparkinsonism agent is administered concomitantly Anti-parkinsonism agents should be used only when required. Generally, therapy of a few weeks to 2 or 3 months will suffice. After this time. patients should be evaluated to determine their need for continued treatment. (Note: Levodona has not been found effective in antipsychoticinduced pseudo-parkinsonism.) Occasionally it is necessary to lower the dosage of chlorpromazine

Tardive Dyskinesia

As with all antinsychotic agents, tardive dyskinesia may appear in some patients on long-term therapy or may appear after drug therapy has been discontinued. The syndrome can also develop although much less frequently, after relatively brief treatment periods at low doses. This syndrome annears in all age groups. Although its prevalence annears to be highest among elderly patients. especially elderly women, it is impossible to rely upon prevalence estimates to predict at the inception of antipsychotic treatment which patients are likely to develop the syndrome The symptoms are persistent and in some patients appear to be irreversible. The syndrome is characterized by rhythmical involuntary movements of the tonque, face, mouth or law (e.g. protrusion of tongue, puffing of cheeks, puckering of mouth, chewing movements). Sometimes these may be accompanied by involuntary movements of extremities. In rare instances, these involuntary movements of the extremities are the only manifestations of tardive dyskinesia. A variant

of tardive dyskinesia, tardive dystonia, has also

There is no known effective treatment for

tardive dyskinesia: anti-narkinsonism agents do

not alleviate the symptoms of this syndrome.

If clinically feasible, it is suggested that all

antipsychotic agents be discontinued if these

symptoms appear. Should it be necessary to

reinstitute treatment, or increase the dosage of

the agent, or switch to a different antipsychotic

agent, the syndrome may be masked. It has been

reported that fine vermicular movements of the

tongue may be an early sign of the syndrome

and if the medication is stopped at that time the

Psychotic symptoms and catatonic-like states

syndrome may not develon.

have been reported rarely

ADVERSE BEHAVIORAL EFFECTS

recommended In addition, asthma, larvngeal edema, angioneurotic edema and anaphylactoid reactions have been reported

have been reported occasionally

OTHER CNS FEFFCTS

(See WARNINGS)

also been reported

Neuroleptic Malignant Syndrome (NMS) has been

reported in association with antipsychotic drugs.

Convulsive seizures (petit mal and grand mal)

have been reported particularly in patients with

Abnormality of the cerebrospinal fluid proteins has

Allergic Reactions of a mild urticarial type or

photosensitivity are seen. Avoid undue exposure

to sun. More severe reactions, including exfoliative

dermatitis and toxic epidermal necrolysis (TEN).

Contact dermatitis has been reported in nursing

personnel: accordingly, the use of rubber gloves

when administering chlorpromazine injectable is

FEG abnormalities or history of such disorders.

Cerebral edema has been reported

Endocrine Disorders Lactation and moderate breast engorgement m occur in females on large doses. If persistent. lower dosage or withdraw drug. False-positive pregnancy tests have been reported, but are less likely to occur when a serum test is used. Amenorrhea and gynecomastia have also been reported, Hyperglycemia, hypoglycemia and

alycosuria have been reported.

Autonomic Reactions Occasional dry mouth: nasal congestion: nausea: obstipation; constipation; adynamic ileus; urinary retention; priapism; miosis and mydriasis; atonic

colon: eiaculatory disorders/impotence.

Special Considerations in Long-Term Therapy Skin pigmentation and ocular changes occurred in some patients taking substantial doses of chlorpromazine for prolonged periods.

SKIN PIGMENTATION

observed in hospitalized mental natients, primarily females who have received the drug usually for 3 years or more in dosages ranging from 500 mg to 1500 mg daily. The pigmentary changes. restricted to exposed areas of the body, range from an almost imperceptible darkening of the skin. to a slate gray color sometimes with a violet hue Histological examination reveals a pigment, chiefly in the dermis, which is probably a melanin-like complex. The pigmentation may fade following discontinuance of the drug.

Ocular changes have occurred more frequently

than skin pigmentation and have been observed

Rare instances of skin pigmentation have been

OCULAR CHANGES

both in pigmented and nonpigmented patients receiving chlororomazine usually for 2 years or more in dosages of 300 mg daily and higher. Eve changes are characterized by deposition of fine particulate matter in the lens and cornea. In more advanced cases, star-shaped opacities have also been observed in the anterior portion of the lens. The nature of the eve deposits has not vet been determined. A small number of natients with more severe ocular changes have had some visual impairment. In addition to these corneal and lenticular changes, enithelial keratonathy and pigmentary retinopathy have been reported. Reports suggest that the eye lesions may regress after withdrawal of the drug. Since the occurrence of eye changes seems to be related to the dosage levels and/or duration of therapy, it is suggested that long-term patients on moderate to high dosage levels have periodic ocular examinations

The etiology of both of these reactions is not clear. but exposure to light, along with dosage/duration of therapy, appears to be the most significant factor. If either of these reactions is observed, the physician should weigh the benefits of continued therapy against the possible risks and, on the

merits of the individual case, determine whether or not to continue present therapy, lower the dosage. or withdraw the drug.

Other Adverse Reactions

Mild fever may occur after large Inframuscula doses. Hyperpyrexia has been reported Increases in annetite and weight sometimes occur. Peripheral edema and a systemic lupus erythematosus-like syndrome have been reported. Note: There have been occasional reports of sudden death in patients receiving phenothiazines. In some cases, the cause anneared to be cardiac arrest or asphyxia due to failure of the cough

OVERDOSAGE

reflex.

(See also ADVERSE REACTIONS)

Primarily symptoms of central nervous system depression to the point of sompolence or come Hypotension and extrapyramidal symptoms.

Other possible manifestations include anitation and restlessness, convulsions, fever, autonomic reactions such as dry mouth and ileus. EKG changes and cardiac arrhythmias.

It is important to determine other medications

taken by the patient since multiple drug therapy

is common in overdosage situations. Treatment

Treatment

is essentially symptomatic and supportive. Early gastric lavage is helpful. Keep patient under observation and maintain an open airway, since involvement of the extranyramidal mechanism may produce dysphagia and respiratory difficulty in severe overdosage. Do not attempt to induce emesis because a dystonic reaction of the head or neck may develop that could result in aspiration of vomitus. Extrapyramidal symptoms may be treated with anti-parkinsonism drugs. barbiturates or diphenhydramine. See prescribing to the individual, response carefully monitored, information for these products. Care should be and dosage adjusted accordingly. Dosage should taken to avoid increasing respiratory depression.

If administration of a stimulant is desirable amphetamine, dextroamphetamine or caffeine with sodium henzoate is recommended Stimulants that may cause convulsions (e.g. picrotoxin or pentylenetetrazol) should be avoided. If hypotension occurs, the standard measures for

managing circulatory shock should be initiated If it is desirable to administer a vasoconstrictor norepinephrine and phenylephrine are most suitable. Other pressor agents, including epinephrine, are not recommended because phenothiazine derivatives may reverse the usual elevating action of these agents and cause a further lowering of blood pressure. Limited experience indicates that phenothiazines are not

DOSAGE AND ADMINISTRATION

Adjust dosage to individual and the severity of his condition, recognizing that the milligram for milligram potency relationship among all dosage forms has not been precisely established clinically It is important to increase dosage until symptoms are controlled. Dosage should be increased more gradually in debilitated or emaciated patients. In continued therapy, gradually reduce dosage to the lowest effective maintenance level, after symptoms have been controlled for a reasonable

ncrease parenteral dosage only if hypotension has not occurred. Before using Intramuscular, see

Important Notes On Injection

FLDERLY PATIENTS In general, dosages in the lower range are sufficient for most elderly natients. Since they appear to be more susceptible to hypotension and neuromuscular reactions, such patients should be observed closely. Dosage should be tailored be increased more gradually in elderly patients

Increase dosage gradually until symptoms are

controlled. Maximum improvement may not be seen for weeks or even months. Continue optimum dosage for 2 weeks; then gradually reduce dosage to the lowest effective maintenance level. Daily dosage of 200 mg is not unusual. Some patients require higher dosages (e.g., 800 mg daily is not uncommon in discharged mental patients).

Hospitalized Patients: Acute Schizophrenic or Manic States

Intramuscular: 25 mg (1 mL), If necessary, give additional 25 to 50 mg injection in 1 hour. Increase subsequent Intramuscular doses gradually over several days-up to 400 mg g4-6h in exceptionally severe cases-until patient is controlled. Usually the natient becomes quiet and cooperative within 24 to 48 hours and oral doses may be substituted Prompt Control of Severe Symptoms

Intramuscular: 25 mg (1 ml.), If necessary, repeat in

1 hour. Subsequent doses should be oral, 25-50 mg tid.

NAUSEA AND VOMITING

Intramuscular: 25 mg (1 mL). If no hypotension occurs, give 25 to 50 mg a3-4h pm, until vomiting stops. Then switch to oral dosage.

Durina Suraerv

Intramuscular: 12.5 mg (0.5 mL), Repeat in 1/2 hour if necessary and if no hypotension occurs. Intravenous: 2 mg per fractional injection, at 2-minute intervals. Do not exceed 25 mg. Dilute to 1 mg/mL,

i.e., 1 ml. (25 mg) mixed with 24 ml. of saline.

PRESURGICAL APPREHENSION Intramuscular: 12.5 to 25 mg (0.5-1 mL).

2 hours before operation

INTRACTABLE HICCLIPS f symptoms persist for 2-3 days after trial with oral therapy, give 25 to 50 mg (1-2 mL) Intramuscular, Should symptoms persist, use slow Intravenous infusion with patient flat in bed: 25 to 50 mg (1-2 mL) in 500 to 1000 mL of saline. Follow blood pressure closely

PSYCHOTIC DISORDERS

Intramuscular: 25 mg (1 mL) tid or gid until patient can take oral therany Intramuscular: 25 to 50 mg (1-2 mL) given 3 or times daily, usually in conjunction with

ACLITE INTERMITTENT PORPHYRIA

barbiturates. Total doses and frequency of administration must be determined by the patient's response, starting with low doses and increasing gradually. Intravenous: 25 to 50 mg (1-2 ml.) Dilute to at least 1 mg per ml. and administer at a rate of 1 mg per minute.

Pediatric Patients (6 months to 12 years of age)

Chlorpromazine should generally not be used in nediatric natients under 6 months of age excent where potentially lifesaying. It should not be used n conditions for which specific pediatric dosages have not been established

SEVERE REHAVIORAL PROBLEMS

Select route of administration according to severity of patient's condition and increase dosage nradually as required. Intramuscular: 1/4 mg/lh body weight a6-8h, prn

Hospitalized Patients

As with outpatients, start with low doses and ncrease dosage gradually. In severe behavior disorders, higher dosages (50-100 mg daily, and in older children, 200 mg daily or more) may be

There is little evidence that behavior improvement in severely disturbed mentally retarded patients is further enhanced by doses beyond 500 mg per day. Maximum Intramuscular Dosage: Patients up to 5 years (or 50 lbs.), not over 40 mg/day: 5-12 years (or 50-100 lbs.), not over 75 mg/day

except in unmanageable cases.

NAUSEA AND VOMITING Dosage and frequency of administration should be adjusted according to the severity of the symptoms and response of the patient. The duration of activity up to 12 hours. Subsequent doses may be given by the same route if necessary. Intramuscular, 1/4 mg/lb hody weight g6-8h, prn. Maximum Intramuscular Dosage: Pediatric patients 6 months to 5 years (or 50 lbs.), not over 40 mg/day: 5-12 years (or 50-100 lbs.), not over 75 mg/day except in severe cases. Durina Suraery

dilute to 1 mg/mL, i.e., 1 mL (25 mg) mixed with

1/4 mg/lh hody weight Intramuscular 1 to 2 hours

Intramuscular or Intravenous: 1/4 mg/lb body

weight q6-8h. When given Intravenous, dilute to

at least 1 mg/mL and administer at a rate of 1 mg

per 2 minutes. In patients up to 50 lbs., do not

exceed 40 mg daily: 50 to 100 lbs. do not exceed

Inject slowly, deep into upper outer quadrant

Recause of possible hypotensive effects, reserve

for acute ambulatory cases, and keep patient

lving down for at least 1/2 hour after injection. If

irritation is a problem, dilute injection with saline

or 2% procaine; mixing with other agents in the

syringe is not recommended. Subcutaneous

injection is not advised. AVOID INJECTING

UNDILUTED CHLORPROMAZINE HYDROCHLORIDE

INJECTION INTO VEIN, INTRAVENOUS ROUTE

parenteral administration for bedfast patients

24 mL of saline.

hefore operation

TETANUS

PRESURGICAL APPREHENSION

75 mg except in severe cases

Important Notes on Injection

following intramuscular administration may last

Chlororomazine Hydrochloride Injection, LISP is Intramuscular: 1/8 mg/lb body weight. Repeat available as follows: in 1/2 hour if necessary and if no hypotension occurs. Intravenous: 1 mg ner fractional injection. Droduct at 2-minute intervals and not exceeding recommended Inframuscular dosage. Always

HOW SLIPPLIED

	Code	219281	220302
	Unit of Sale	NDC 65219-128-01 Unit of 25	NDC 65219-130-02 Unit of 25
	Strength	25 mg per mL	50 mg per 2 mL (25 mg per mL)
	Each	NDC 65219-128-00 1 mL Single- Dose Vial	NDC 65219-130-01 2 mL Single- Dose Vial

Recause of the possibility of contact dermatitis

Parenteral drug products should be

inspected visually for particulate matter and

discoloration prior to administration, whenever

avoid getting solution on hands or clothing.

solution and container permit

Discard unused portion

Protect from light, or discoloration may occur Slight vellowing will not alter potency. Discard if markedly discolored. Store at 20° to 25°C (68° to 77°F), excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room

To report SUSPECTED ADVERSE REACTIONS contact Fresenius Kabi USA, LLC at 1-800-551-7176 or the EDA at 1-800-EDA-1088

Temperature1. Protect from freezing.

or www.fda.gov/medwatch.

Manufactured for:

Lake Zurich, IL 60047

www.fresenius_kahi.com/us

December 2023

ONLY FOR SEVERE HICCUPS, SURGERY AND Made in India

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