

Product Monograph
Including Patient Medication Information

PrPERPHENAZINE

perphenazine tablets

For oral use

2 mg, 4 mg, 8 mg, and 16 mg

USP

Antipsychotic/Antiemetic

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Recent Major Label Changes

None at time of the most recent authorization	
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Certain sections or subsections that are not applicable at the time of the preparation of the most recent authorized product monograph are not listed.

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Part 1: Healthcare Professional Information

1. Indications

PERPHENAZINE (perphenazine tablets) is indicated for:

- Management of manifestations of psychotic disorders.
- Controlling nausea and vomiting due to stimulation of the chemoreceptor trigger zone.

PERPHENAZINE has not been shown effective for the management of behavioral complications in patients with intellectual developmental disorder.

1.1. Pediatrics

Pediatrics (<13 years of age): No data are available to Health Canada regarding use in children under 13 years of age; therefore, Health Canada has not authorized an indication for pediatric use in children under 13 years of age. See [7.1.3 Pediatrics](#) and [4.1 Dosage Considerations](#).

1.2. Geriatrics

Geriatrics (>55 years of age): Evidence from clinical studies and experience suggests that use in the geriatric population is associated with differences in safety or effectiveness. See [3 Serious Warnings and Precautions Box](#) and [7.1.4 Geriatrics](#).

2. Contraindications

PERPHENAZINE is contraindicated in:

- Patients who are hypersensitive to this drug or to phenothiazine derivatives or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see [6 Dosage Forms, Strengths, Composition, and Packaging](#).
- Circulatory collapse, comatose, or greatly depressed states due to CNS depressant (including alcohol, hypnotics, narcotics)
- Blood dyscrasias and bone marrow depression.
- Liver damage.
- Renal insufficiency.
- Pheochromocytoma.
- Severe cardiovascular disorders.
- Patients with suspected or established subcortical brain damage, with or without hypothalamic damage, since a hyperthermic reaction with temperatures above 40°C may occur, sometimes not until 14 to 16 hours after drug administration.
- Patients receiving large doses of hypnotics, due to the possibility of potentiation.
- Children undergoing surgery.

3. Serious Warnings and Precautions Box

- **Increased Mortality in Elderly Patients with Dementia**
Elderly patients with dementia treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo see [7.1.4 Geriatrics](#). PERPHENAZINE is not approved for use in elderly patients with dementia.

4. Dosage and Administration

4.1. Dosing Considerations

- Begin with the lowest recommended dosage.
- The dose must be adjusted for each patient according to the severity of the condition and the response obtained.
- The total daily dose in ambulatory patients should not exceed 24 mg.
- Severely disturbed hospitalized psychiatric patients or those with resistant mental and emotional disorders may temporarily require more than 24 mg daily, especially during early management.
- It is very important to employ the lowest effective dose since extrapyramidal symptoms increase in frequency and severity with increased dosage.
- For control of severe nausea and vomiting, daily doses of 8 mg to 16 mg may be given in divided amounts.

Children: (> 12 years of age)

- The lower range of adult dosage may be used in children over 12.

4.2. Recommended Dose and Dosage Adjustment

To treat psychotic disorders:

- Moderately disturbed non-hospitalized patients with schizophrenia:
4 to 8 mg t.i.d. initially; reduce as soon as possible to minimum effective dosage.
- Hospitalized patients with schizophrenia:
8 to 16 mg b.i.d. to q.i.d; avoid dosages in excess of 64 mg daily.

To control nausea and vomiting:

8 to 16 mg daily in divided doses; 24 mg occasionally may be necessary; early dosage reduction is desirable.

Pediatrics (<13 years of age)

Health Canada has not authorized an indication for pediatric use in children under 13 years of age.

4.4. Administration

Tablets are for oral administration.

4.5. Missed Dose

If the patient misses a dose, inform the patient to skip the missed dose and take the next dose at the regular dosing schedule.

5. Overdose

Symptoms

Primarily extrapyramidal reactions, CNS depression which may vary from simple lethargy to coma. Agitation and restlessness may also occur. Other possible manifestations include convulsions, fever and autonomic reactions such as hypotension, dry mouth and ileus.

Treatment

Essentially symptomatic and supportive. Early gastric lavage may be helpful.

Maintain an open airway If hypotension occurs, the standard measures for managing circulatory shock should be initiated; if a pressor agent is required give levarterenol or phenylephrine and not epinephrine as it may further depress the blood pressure. Extrapyramidal reactions should be treated with an antiparkinsonian agent.

Centrally-acting emetics will be ineffective because of perphenazine tablets antiemetic action. Limited experience indicates that phenothiazines are not dialyzable.

For the most recent information in the management of a suspected drug overdose, contact your regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669).

6. Dosage Forms, Strengths, Composition, and Packaging

Table 1 – Dosage Forms, Strengths, and Composition

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
oral	tablet, 2 mg, 4 mg, 8 mg, and 16 mg of perphenazine	Carnauba wax, cornstarch, hydroxypropyl methylcellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, and titanium dioxide

Description

PERPHENAZINE 2 mg: Each white, round, biconvex, film-coated tablet engraved 2 on one side, other side plain, contains 2 mg of perphenazine. Available in bottles of 100.

PERPHENAZINE 4 mg: Each white, round, biconvex, film-coated tablet engraved 4 on one side, other side plain, contains 4 mg of perphenazine. Available in bottles of 100.

PERPHENAZINE 8 mg: Each white, round, biconvex, film-coated tablet engraved 8 on one side, other side plain, contains 8 mg of perphenazine. Available in bottles of 100.

PERPHENAZINE 16 mg: Each white, round, biconvex, film-coated tablet engraved 16 on one side, other side plain, contains 16 mg of perphenazine. Available in bottles of 100.

7. Warnings and Precautions

See [3 Serious Warnings and Precautions Box](#).

General

The antiemetic action of perphenazine tablets may mask the signs and symptoms of overdose of other drugs and may obscure the diagnosis and treatment of other conditions such as brain tumour or intestinal obstruction. Therefore the etiology of nausea and vomiting should be established before using the drug.

Because of its anticholinergic action, perphenazine tablets should be used with great caution in patients with prostatic hypertrophy.

Patients receiving perphenazine tablets should be cautioned against exposure to extreme heat or organophosphorous insecticides.

To lessen the likelihood of adverse reactions related to drug accumulation, patients on long-term therapy, particularly on high doses, should be evaluated periodically to decide whether the maintenance dosage could be lowered or drug therapy discontinued

Cardiovascular

Hypotension and ECG changes, particularly non-specific and usually reversible Q and T wave distortions, have been associated with the administration of phenothiazines. Neuroleptic phenothiazines may potentiate QT interval prolongation, which increases the risk of onset of serious ventricular arrhythmias of the torsade de pointes type, which is potentially fatal (sudden death). QT prolongation is exacerbated, in particular, in the presence of bradycardia, hypokalemia, and congenital or acquired (i.e., drug induced) QT prolongation. As well, concomitant treatment with other drugs known to cause QT prolongation should be avoided in combination with perphenazine. Medications that prolong the QT interval include dofetilide, sotalol, quinidine, other Class Ia and III anti-arrhythmics, some other antipsychotics (e.g., mesoridazine, thioridazine, chlorpromazine, droperidol, pimozide), sparfloxacin, gatifloxacin, moxifloxacin, halofantrine, mefloquine, pentamidine, arsenic trioxide, levomethadyl acetate, dolasetron mesylate, probucol or tacrolimus. Therefore, perphenazine tablets should be used with caution in patients with compensated cardiovascular and cerebrovascular disorders. See [2 Contraindications](#)

Driving and Operating Machinery

The use of PERPHENAZINE may impair the mental and physical abilities required for the performance of potentially hazardous tasks, such as driving a car or operating machinery.

Potential of the effects of alcohol may also occur.

Endocrine and Metabolism

Hyperglycemia: Diabetic ketoacidosis (DKA) has occurred in patients with no reported history of hyperglycemia. Patients should have baseline and periodic monitoring of blood glucose and body weight.

Hyperprolactinemia: Long-standing hyperprolactinemia when associated with hypogonadism may lead to decreased bone mineral density in both female and male subjects.

Neuroleptic drugs elevate prolactin levels; the elevation persists during chronic administration. Tissue culture experiments indicate that approximately one-third of human breast cancers are prolactin-dependent *in vitro*, a factor of potential importance if the prescription 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 is unknown for most patients. An increase in mammary neoplasms has been found in rodents after chronic administration of neuroleptic drugs. Neither clinical studies, nor epidemiologic 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 conclusive at this time.

Gastrointestinal

The effects of anticholinergic drugs may be potentiated by perphenazine tablets. Paralytic ileus, even resulting in death, may occur, especially in the elderly. Caution should be observed if constipation develops.

Genitourinary

Rare cases of priapism have been reported with antipsychotic use, such as perphenazine tablets. This adverse reaction, as with other psychotropic drugs, did not appear to be dose-dependent and did not correlate with the duration of treatment.

Hematologic

Blood Dyscrasias: Neutropenia, granulocytopenia and agranulocytosis have been reported during antipsychotic use. Therefore, it is recommended that patients have their complete blood count (CBC) tested prior to starting PERPHENAZINE and then periodically throughout treatment.

Blood dyscrasias including leukopenia, agranulocytosis, pancytopenia, thrombocytopenic or non-thrombocytopenic purpura, eosinophilia, and anemia, have been associated with phenothiazine therapy. Routine blood counts are therefore advisable during prolonged therapy. If any soreness of the mouth, gums or throat or any symptoms of upper respiratory infection occur and confirmatory leukocyte count indicates cellular depression, therapy should be discontinued and other appropriate measures instituted immediately.

Venous Thromboembolism (VTE): Cases of venous thromboembolism (VTE), including fatal pulmonary embolism, have been reported with antipsychotic drugs. Since patients treated with antipsychotics often present with acquired risk factors for VTE, all possible risk factors for VTE should be identified before and during treatment with perphenazine and preventive measures undertaken.

Hypotensive Effect of Perphenazine

Patients with pheochromocytoma, cerebral vascular or renal insufficiency, or a severe cardiac reserve deficiency such as mitral insufficiency appear to be particularly prone to hypotensive reactions with phenothiazine compounds, and should therefore be observed closely when the drug is administered. Hypotension severe enough to cause fatal cardiac arrest has been reported in patients receiving phenothiazine derivatives

Should hypotension occur in patients receiving Perphenazine and a vasopressor agent be required, i.v. levarterenol or phenylephrine should be used, and not epinephrine, since phenothiazine derivatives can reverse the pressor effect of the latter drug

Hepatic/Biliary/Pancreatic

Cholestatic jaundice may occur with long-term therapy, necessitating discontinuation of treatment. Therefore, it is advisable to perform periodic liver function tests, particularly during the first 2 or 3 months.

Neurologic

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 prevalence estimates to predict, at 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 effective treatment for tardive dyskinesia; antiparkinsonian agents usually do not alleviate the symptoms of this syndrome. It is suggested that all antipsychotic agents be discontinued if these symptoms appear. It has been reported that the fine vermicular movements of the tongue may be an early sign of the syndrome and if the medication is stopped at that time, the syndrome may not develop. Antipsychotic treatment itself, however, may suppress (or partially suppress) the signs and symptoms of the syndrome, and thereby may possibly mask the underlying disease process; this includes from increased dosage, reinstated treatment, or switch to a different antipsychotic agent. The effect that symptomatic suppression has upon the long-term course of the syndrome is unknown.

Given these considerations antipsychotics should be prescribed in a manner that is most likely to minimize the occurrence of tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic illness that 1) is known to respond to antipsychotic drugs, and 2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically.

If signs and symptoms of tardive dyskinesia appear in a patient on antipsychotics, drug discontinuation should be considered. However, some patients may require treatment despite the presence of the syndrome.

Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex, sometimes referred to as Neuroleptic 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, diaphoresis, and cardiac dysrhythmias).

The diagnostic evaluation of patients 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 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 antipsychotic drugs and other drugs not essential to concurrent therapy, 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.

If a patient requires antipsychotic drug treatment after recovery from NMS, the reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported.

Withdrawal Emergent Neurological Signs: Abrupt withdrawal after short-term administration of antipsychotic drugs does not generally pose problems. However, transient dyskinetic signs are experienced by some patients on maintenance therapy after abrupt withdrawal. The signs are very similar to those described under Tardive Dyskinesia, except for duration. Although it is not known whether gradual withdrawal of antipsychotic drugs will decrease the incidence of withdrawal emergent neurological signs, gradual withdrawal would appear to be advisable.

Seizures: The increased incidence of seizures, which occasionally occur in epileptics started on antipsychotic medication, may be controlled by increasing the dosage of their anticonvulsant. Patients with a familial history of seizures or febrile convulsions are more likely to develop seizures than those who have no such history.

Unexpected, sudden deaths have occurred in hospitalized patients treated with phenothiazines. Previous brain damage or seizures may predispose. High doses of perphenazine should be avoided in known seizure patients. See [8.1 Adverse Reaction Overview, General disorders and administration site conditions](#)

Ophthalmologic

Because of its anticholinergic action, perphenazine should be used with great caution in patients with glaucoma.

Retinal changes, lenticular and corneal deposits have been observed with other phenothiazines and may occur after prolonged therapy. The possibility of persistent tardive dyskinesia should also be borne in mind when patients are under long-term treatment.

Renal

Renal dysfunction has been observed with perphenazine use. Therefore, renal function should be monitored and, if BUN becomes abnormal, treatment should be discontinued.

Skin

Abnormal skin pigmentation has been observed with other phenothiazines and may occur after prolonged therapy.

7.1. Special Populations

7.1.1. Pregnancy

Safety during pregnancy has not been established. Therefore, it is recommended that the drug be given to pregnant patients only when, in the judgement of the physician, the potential benefit to the patient outweighs the possible risk to the fetus.

Non-Teratogenic Effects: Neonates exposed to antipsychotic drugs (including perphenazine tablets) during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptoms 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.

PERPHENAZINE should not be used during pregnancy unless the expected benefits to the mother markedly outweigh the potential risks to the fetus.

7.1.2. Breastfeeding

It is unknown if perphenazine tablets are excreted in human milk. Precaution should be exercised because many drugs can be excreted in human milk.

7.1.3. Pediatrics

Pediatrics (< 13 years of age): No data are available to Health Canada regarding use in children under 13 years of age; therefore, Health Canada has not authorized an indication for pediatric use in children under 13 years of age. See [1.1 Pediatrics](#).

Children with an acute febrile illness or suffering from dehydration seem to be much more susceptible than adults to neuromuscular reactions, particularly dystonias. In such patients, the drug should be used under close supervision and at low doses.

The extrapyramidal symptoms which can occur secondary to perphenazine tablets may be confused with the CNS signs of an undiagnosed primary disease responsible for the vomiting, e.g. Reye's syndrome or other encephalopathy. The use of perphenazine tablets should be avoided in children and adolescents whose signs and symptoms suggest Reye's syndrome.

7.1.4. Geriatrics

Geriatrics (>55 years of age): The incidence of adverse reactions may be greater in patients over 55 years of age, since the half-lives of antipsychotic drugs are often prolonged. To minimize this possibility, the maintenance dosage should be reduced to the lowest effective level as soon as possible after initial titration and periodically reviewed.

Since psychiatric syndromes in the elderly can be caused by drugs or organic disease, withdrawal of the precipitating drug or treatment of the medical condition should supersede initiation of antipsychotic medication. These agents should not be used for non-psychiatric conditions for which other drugs are available, since the elderly are especially prone to develop adverse effects from antipsychotic drugs.

8. Adverse Reactions

8.1. Adverse Reaction Overview

Adverse reactions with different phenothiazines vary in type, frequency, and mechanism of occurrence, i.e., some are dose-related, while others involve individual patient sensitivity. Some adverse reactions may be more likely to occur with greater intensity, in patients with special medical problems.

Not all of the following adverse reactions have been observed with every phenothiazine derivative, but they have been reported with one or more and should be borne in mind when drugs of this class are administered.

Patients should be advised of the risk of severe constipation during PERPHENAZINE treatment, and that they should tell their healthcare professional if constipation occurs or worsens, as they may need laxatives.

Blood and lymphatic system disorders: Neutropenia, granulocytopenia and agranulocytosis have been reported during antipsychotic use. See [7 Warnings and Precautions, Blood Dyscrasias](#).

Cardiac disorders: Tachycardia.

Eye disorders: Glaucoma, blurred vision.

Epithelial keratopathy, lenticular and corneal deposits have been associated with long-term administration in patients receiving phenothiazine derivatives.

Gastrointestinal disorders: Dry mouth, nausea, constipation, vomiting have been observed.

Other autonomic reactions which have occurred with phenothiazines are salivation, adynamic ileus, and fecal compaction.

General disorders and administration site conditions: Disturbed temperature regulation, fatigue, peripheral edema.

Hyperpyrexia has been reported in patients receiving phenothiazine derivatives.

Sudden, unexpected and unexplained deaths have been reported in hospitalized psychotic patients receiving phenothiazines. Previous brain damage or seizures may be predisposing factors; high doses should be avoided in known seizure patients. Several patients have shown flare-ups of psychotic behaviour patterns shortly before deaths. Autopsy findings have usually revealed acute fulminating pneumonia or pneumonitis, aspiration of gastric contents or intramyocardial lesions. See [7 Warnings and Precautions, Seizures](#).

Potential of CNS depressants (barbiturates, narcotics, analgesics, alcohol, antihistamines) may occur.

Hepatobiliary disorders: Cholestatic jaundice and biliary stasis may be encountered, particularly during the first months of therapy, and require immediate discontinuation of treatment.

Immune system disorders: The possibility of an anaphylactoid reaction should be borne in mind.

Investigations: Weight changes, false positive pregnancy tests, altered cerebrospinal fluid proteins, ECG and EEG changes have been reported in patients receiving phenothiazine derivatives.

Metabolism and nutrition disorders: Anorexia, increased thirst, increased appetite have occurred in patients receiving phenothiazine therapy.

Musculoskeletal and connective tissue disorders: Systemic lupus erythematosus-like syndrome, has been reported in patients receiving phenothiazine derivatives.

Nervous system disorders: Headache, syncope, dizziness have been observed.

Cerebral and angioneurotic edema has been reported in patients receiving phenothiazine derivatives.

Extrapyramidal reactions including tremor, rigidity, akathisia, dystonia, dyskinesia, oculogyric crises, opisthotonos, hyperreflexia and sialorrhea. Seizures have also been encountered.

Persistent Tardive Dyskinesia (see also [7 Warnings and Precautions, Tardive Dyskinesia](#))

Tardive dyskinesia, a syndrome consisting of potentially irreversible, involuntary, dyskinetic movements, may develop in patients treated with antipsychotic drugs, including perphenazine. The syndrome is characterized by rhythmical involuntary movements of the tongue, face, mouth or jaw (e.g., protrusion of tongue, puffing of cheeks, puckering of mouth, chewing movements). Sometimes, these may be accompanied by involuntary movements of the extremities. The physician may be able to reduce the risk of this syndrome by minimizing the unnecessary use of neuroleptic drugs and reducing the dose or discontinuing the drug, if possible, when manifestations of this syndrome are recognized, particularly in patients over the age of 50.

Neuroleptic Malignant Syndrome (see also [7 Warnings and Precautions, Neuroleptic Malignant Syndrome](#))

As with other neuroleptic drugs, a symptom complex sometimes referred to as neuroleptic malignant syndrome (NMS) may occur. Cardinal features of NMS are hyperpyrexia, muscle rigidity, altered mental status (including catatonic signs), and evidence of autonomic instability (irregular pulse or blood pressure). Additional signs may include elevated CPK, myoglobinuria (rhabdomyolysis), and acute renal failure. NMS is potentially fatal and requires symptomatic treatment and immediate discontinuation of neuroleptic treatment.

Psychiatric disorders: Sleep disturbances, drowsiness, insomnia, and depression have been reported and may, in severe cases, necessitate reduction in dosage. As with other phenothiazine derivatives, reactivation or aggravation of psychotic processes may be encountered. Paradoxical effects such as agitation, anxiety, restlessness, excitement and bizarre dreams, have been observed.

Renal and urinary disorders: Polyuria, bladder paralysis, urinary incontinence.

Reproductive system and breast disorders: Menstrual irregularities, impotence, galactorrhea, gynecomastia and changes in libido have also occurred in patients receiving phenothiazine therapy.

Respiratory thoracic and mediastinal disorders: Nasal congestion has been observed. Asthma and laryngeal edema have been reported in patients receiving phenothiazine derivatives.

Skin and subcutaneous tissue disorders: Pruritus, dermatitis, rash, erythema, urticaria, seborrhea, eczema, exfoliative dermatitis and photosensitivity.

Sweating has been observed. Skin pigmentation has been associated with long-term administration in patients receiving phenothiazine derivatives.

Vascular disorders: Observational studies and/or case reports of venous thromboembolism (VTE), including fatal pulmonary embolism, have been reported with antipsychotic drugs, including perphenazine tablets. (See [7 Warnings and Precautions, Venous Thromboembolism \(VTE\)](#)).

9. Drug Interactions

9.3. Drug-Behaviour Interactions

Potential of the effects of alcohol may also occur. See [7 Warnings and Precautions, Driving and Operating Machinery](#).

9.4. Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction (i.e., those identified as contraindicated).

Table 2 - Established or Potential Drug-Drug Interactions

Non-proprietary names of the drug products	Source of evidence	Effect	Clinical comment
Anticonvulsant	T	Phenothiazines may lower the convulsive threshold. Potentiation of anticonvulsant effects does not occur. However, it has been reported that phenothiazines may interfere with the metabolism of phenytoin and thus precipitate phenytoin toxicity	Dosage adjustment of anticonvulsants may be necessary.
Antihypertensives	T	Antipsychotics, notably the phenothiazines, have blocked the action of antihypertensive agents.	Concomitant administration of antihypertensive agents should be under taken with caution
Atropine	T	Phenothiazines may potentiate the effect of atropine	--
Organophosphate insecticides	T	Phenothiazines may potentiate the effect of organophosphate insecticides.	--

Non-proprietary names of the drug products	Source of evidence	Effect	Clinical comment
Sedatives, narcotics, anesthetics, tranquilizers, barbiturates, opiates, and other CNS depressants.	T	<p>Phenothiazines may increase the effects of general anesthetics, opiates, barbiturates, and other CNS depressants. If agents such as sedatives, narcotics, anesthetics, tranquilizers are used either simultaneously or successively with PERPHENAZINE, the possibility of an undesirable additive depressant effect should be considered.</p> <p>Phenothiazines may increase the effects of general anesthetics, opiates, barbiturates, alcohol and other CNS depressants.</p> <p>Other CNS depressants include morphine derivatives (analgesics, antitussives and substitution treatments), barbiturates, benzodiazepines, anxiolytics other than benzodiazepines, hypnotics, sedative antidepressants, histamine H1 receptor antagonists, central antihypertensive agents increased central depression. Changes in alertness can make it dangerous to drive or operate machinery.</p>	Dosage reduction may be necessary if administered concomitantly with perphenazine tablets.

T = Theoretical

9.5. Drug-Food Interactions

Interactions with food have not been established.

9.6. Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7. Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

10. Clinical Pharmacology

10.1. Mechanism of Action

Perphenazine is a piperazine phenothiazine derivative with antipsychotic, antiemetic and weak sedative activity.

10.2. Pharmacodynamics

Perphenazine has actions similar to those of other phenothiazine derivatives but appears to be less sedating and to have a weak propensity for causing hypotension or potentiating the effects of CNS depressants and anesthetics. However, it produces a high incidence of extrapyramidal reactions.

10.3. Pharmacokinetics

Absorption

Perphenazine is well absorbed from the gastrointestinal tract. Onset of action following oral administration is 30 to 40 minutes. Duration of action is 3 to 4 hours.

Distribution

Perphenazine distributes to most body tissues with high concentrations being distributed into liver and spleen.

Metabolism

Perphenazine enters the enterohepatic circulation.

Elimination

Perphenazine is excreted chiefly in the feces.

11. Storage, Stability, and Disposal

Store at controlled room temperature (between 15 to 30°C).

Part 2: Scientific Information

13. Pharmaceutical Information

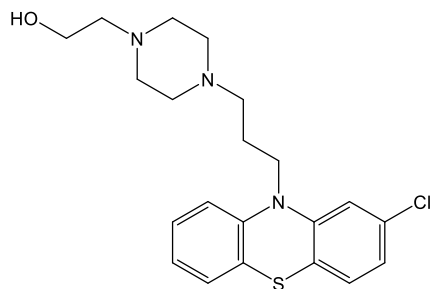
Drug Substance

Non-proprietary name of the drug substance: Perphenazine

Chemical name: 2-[4-[3-(2-chlorophenothiazin-10-yl)propyl]piperazin-1-yl]ethanol.

Molecular formula and molecular mass: $C_{21}H_{26}ClN_3OS$ and 404.0 g/mol.

Structural formula:



Physicochemical properties:

Appearance: A white or yellowish-white crystalline powder.

Solubility: Practically insoluble in Water, freely soluble in Methylene Chloride, soluble in Ethanol (96%). It dissolves in dilute solutions of Hydrochloric Acid.

pKa: 7.8

Potential Isomerism/Chirality: No chiral centres are present in perphenazine. No other form of isomers is possible.

Polymorphism: Perphenazine has been reported to exist in multiple polymorphic forms. However, the exact number of polymorphs can vary depending on the conditions under which the drug is crystallized. The most stable polymorph of perphenazine is the triclinic form. This form is considered the most stable at room temperature, making it the preferred choice for pharmaceutical formulations due to its consistent solubility and bioavailability.

14. Clinical Trials

The clinical trial data on which the original indication was authorized is not available.

16. Non-Clinical Toxicology

This information is not available for this drug product.

Patient Medication Information

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

Pr **PERPHENAZINE**

perphenazine tablets

This Patient Medication Information is written for the person who will be taking **PERPHENAZINE**. This may be you or a person you are caring for. Read this information carefully. Keep it as you may need to read it again.

This Patient Medication Information is a summary. It will not tell you everything about this medication. If you have more questions about this medication or want more information about **PERPHENAZINE**, talk to a healthcare professional.

Serious warnings and precautions box

- **PERPHENAZINE** belongs to a group of medicines called antipsychotics. These medicines have been linked to a higher rate of death when used in elderly patients with dementia (loss of memory and other mental abilities).
- **PERPHENAZINE** is **not** to be used if you are elderly and have dementia.

What **PERPHENAZINE is used for:**

PERPHENAZINE is used in adults and children (over 12 years of age) to:

- manage the symptoms of psychotic disorders.
- control nausea and vomiting

How **PERPHENAZINE works:**

PERPHENAZINE is an antipsychotic medication which affects chemicals in the brain that allow communication between nerve cells (neurotransmitters). These chemicals are called dopamine and serotonin. Exactly how **PERPHENAZINE** works is unknown. However, it seems to readjust the balance of dopamine and serotonin.

The ingredients in **PERPHENAZINE are:**

Medicinal ingredient: Perphenazine

Non-medicinal ingredients: Carnuba wax, cornstarch, hydroxypropyl methylcellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, and titanium dioxide.

****PERPHENAZINE** comes in the following dosage form:**

Tablets: 2 mg, 4 mg, 8 mg and 16 mg.

Do not use PERPHENAZINE if:

- you are allergic to perphenazine, phenothiazines (a group of antipsychotic medications), or to any of the other ingredients in PERPHENAZINE.
- you are in a deep state of prolonged unconsciousness (coma) or have decreased alertness caused by certain medications or alcohol.
- you have a blood cell disorder (e.g., low levels of red or white blood cells, or platelets).
- you have a medical condition known as pheochromocytoma (a tumor of the adrenal gland).
- you have a severe heart or blood vessel disorder.
- you have liver or kidney problems.
- you have or think you might have brain damage.
- you are taking large doses of a hypnotic medication (used to help with sleep).
- you are a child and undergoing or going to undergo surgery.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take PERPHENAZINE. Talk about any health conditions or problems you may have, including if you:

- are currently taking any other medications.
- have heart or blood vessel problems.
- have a low heart rate.
- have QT prolongation (a heart rhythm condition that causes fast, chaotic heartbeats) or are taking medications that are known to increase your risk of developing this condition. Ask your healthcare professional if you are not sure.
- have a condition that affects blood flow to your brain.
- have or are prone to low blood pressure.
- have diabetes as PERPHENAZINE may increase your blood sugar levels.
- suffer from an increased pressure within the eye(s) (glaucoma).
- have an enlarged prostate
- are addicted to alcohol. You should not take PERPHENAZINE if you are under the effects of alcohol.
- have been told by a healthcare professional that you have low levels of potassium in your blood.
- have or have a family history of seizures (including those caused by fever). PERPHENAZINE may make you more prone to seizures.
- are at risk of developing blood clots. Risk factors include:
 - a family history of blood clots
 - being over the age of 65
 - smoking
 - being overweight
 - having a recent major surgery (such as hip or knee replacement)
 - not being able to move due to air travel or other reasons
 - taking oral birth control (“The Pill”)
- have or have had breast cancer.
- are elderly and have dementia.
- are at risk of aspiration pneumonia.
- are a child or adolescent who has:
 - symptoms of Reye’s syndrome (a serious condition that causes swelling in the liver and brain) such as vomiting, lack of energy, change in mental states and seizures.

- sudden fever.
- are dehydrated, or are exposed or will be exposed to extreme heat. PERPHENAZINE may interfere with your body’s ability to adjust to heat. Avoid becoming overheated or dehydrated (for example with vigorous exercise or exposure to extreme heat) while taking PERPHENAZINE.
- are pregnant, think you might be pregnant or are planning to become pregnant. PERPHENAZINE should not be used during pregnancy unless your healthcare professional considers that the benefits to you markedly outweigh the potential risks to the fetus.
- are breast-feeding or planning to breast-feed. It is not known if PERPHENAZINE can pass into your breast milk and harm a breast-fed baby.

Other warnings you should know about:

Driving and using machines: PERPHENAZINE may affect your mental and physical abilities. This may be more likely to occur when you start your treatment. Before you drive or do tasks that require special attention, wait until you know how you respond to PERPHENAZINE. You should be cautious when driving a car or operating machinery.

Testing and check-ups: Your healthcare professional may do check-ups and tests before you start taking PERPHENAZINE and regularly during your treatment. These may include:

- blood tests to monitor:
 - your blood sugar (glucose) levels;
 - your complete blood cell count. This test measures the number and quality of the red blood cells, white blood cells and platelets.
 - your prolactin levels (a hormone in your body).
 - the health of your liver and kidneys.
- body weight checks to monitor any changes in weight.

If you are taking PERPHENAZINE for a long period of time and in high doses, your healthcare professional will monitor you more closely for side effects. They may adjust your dose if needed.

Pregnancy: You should not take PERPHENAZINE while you are pregnant or if you are planning on becoming pregnant unless you have talked to your healthcare professional about it. If you took PERPHENAZINE during your third trimester of pregnancy, the following symptoms may happen in your newborn baby:

- shaking,
- stiffness in their muscles and/or weakness,
- sleepiness,
- agitation,
- breathing problems, or
- difficulty feeding.

Get medical help right away if your newborn has any of these symptoms.

Taking PERPHENAZINE may also affect your pregnancy tests by producing false-positive pregnancy results.

Eye problems: Phenothiazines, such as PERPHENAZINE, may cause deposits in your eye(s). This may occur after taking PERPHENAZINE for a long period of time. Tell your healthcare professional if you

experience changes in your vision such as a blurry or distorted vision, dark or blind spots in the center of your vision, or difficulty with depth perception.

Tardive dyskinesia (TD): PERPHENAZINE, like other antipsychotic medications, can cause potentially irreversible muscle twitching or unusual/abnormal movement of the face or tongue or other parts of your body.

Neuroleptic malignant syndrome (NMS): NMS is potentially a life-threatening condition that has been reported with the use of antipsychotic medications like PERPHENAZINE. Symptoms include:

- severe muscle stiffness or inflexibility with high fever,
- rapid or irregular heartbeat,
- sweating,
- state of confusion or reduced consciousness.

Hyperprolactinemia (increased levels of prolactin): PERPHENAZINE can raise your levels of a hormone called “prolactin”. This is measured with a blood test. Symptoms may include:

- In men:
 - swelling in the breast,
 - difficulty in getting or maintaining an erection or other sexual dysfunction.
- In women:
 - discomfort in the breasts,
 - leaking of milk from the breasts (even if not pregnant),
 - missing your menstrual period or other problems with your cycle.

If you have high levels of prolactin and a condition called hypogonadism, you may be at an increased risk of breaking a bone due to osteoporosis. This occurs in both men and women.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with PERPHENAZINE:

- medicines known as central nervous system (CNS) depressants. They slow down the activity of the CNS. These include but are not limited to:
 - alcohol. You should not drink alcohol while taking PERPHENAZINE.
 - general anesthetics, medicines used during surgery.
 - barbiturates, medicines used to relax the body and help with sleeping.
 - opioids, medicines used to relieve pain.
 - antiepileptics, medicines used to control seizures or fits.
 - antihistamines, medicines used to treat allergies and may cause drowsiness (e.g., diphenhydramine).
 - muscle relaxants, medicines used to treat muscle spasms and back pain (e.g., suxamethonium, pancuronium and dantrolene).
 - antianxiety agents, medicines used to reduce anxiety.
 - sedatives, medicines used to help with sleep.
 - cisapride, used to treat gastric reflux (the regurgitation of stomach acid into the esophagus).
 - cabergoline, used to treat high levels of prolactin hormone in your body.

- medicines that may make you sleepy or drowsy (e.g., cough-and-cold medicines and sleeping pills). You should not take PERPHENAZINE if you have drowsiness caused by other medicines.
- medicines known to affect how the heart beats such as:
 - medicines used to treat an abnormal heart rhythm (e.g., sotalol, quinidine).
 - certain antipsychotic medications (e.g., thioridazine, pimozide).
 - certain antibiotics (e.g., pentamidine, moxifloxacin).
 - antimalarials, medicines used to treat malaria (e.g., halofantrine, mefloquine).
 - arsenic trioxide, used to treat cancer.
 - medicines used to treat opioid dependence (e.g., levomethadyl acetate).
 - medicines used to treat nausea and vomiting (e.g., dolasetron mesylate).
 - medicine used to lower cholesterol levels in the blood (e.g., probucol).
 - tacrolimus, used to prevent organ transplant rejection.
 - antidepressants, medicines used to treat depression, including St. John’s Wort (a herbal remedy).
- atropine, used to treat symptoms of low heart rate, irritable bowel syndrome, asthma, or incontinence.
- phosphorus insecticides used for farming, treating animals (e.g., flea and tick control), and treating pests around the house or garden. PERPHENAZINE can increase the toxicity from these types of insecticides, so caution must be taken when using these products.
- lithium, used to treat manic episodes of bipolar disorder.
- antihypertensive agents, medicines used to treat high blood pressure (e.g., guanethidine and guanadrel).

How to take PERPHENAZINE:

- Take PERPHENAZINE exactly as your healthcare professional has told you.
- Your healthcare professional will decide on the best dose for you depending on:
 - the severity of your symptoms; and
 - how you respond to your treatment.
- Your healthcare professional will give you the lowest effective dose to minimize side effects.
- Do not take PERPHENAZINE more often or increase your dose without consulting your healthcare professional. Taking more than you should will not improve your condition any faster. Instead, you will increase your risk of serious side effects.
- Do not stop taking this medicine suddenly without your healthcare professional’s approval.

Usual dose:

Please note, the lower range of the adult dosages listed below may be used in children over 12 years of age.

To treat psychotic disorders:

- **Moderately disturbed, non-hospitalized patients:**

Adult dosage range: 4 mg to 8 mg, three times a day. Maximum dose: 24 mg per day. Your healthcare professional will reduce your dose as early as possible.

- **Hospitalized patients:**

Adult dosage range: 8 mg to 16 mg, two to four times a day. Maximum dose: 64 mg per day.

To control nausea and vomiting:

Adult dosage range: 8 mg to 16 mg daily in divided doses. 24 mg may sometimes be necessary. Your healthcare professional will reduce your dose as early as possible.

Overdose:

Symptoms of an overdose with PERPHENAZINE may include:

- involuntary movements that you cannot control,
- shaking (tremors),
- agitation,
- confusion,
- drowsiness,
- usually weak breathing,
- muscle stiffness or twitching,
- feeling restless,
- seizures,
- fever,
- low blood pressure,
- dry mouth,
- lack of normal muscle contractions in the intestines, and
- fainting.

If you think you, or a person you are caring for, have taken too much PERPHENAZINE, contact a healthcare professional, hospital emergency department, regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669) immediately, even if there are no signs or symptoms.

Missed dose:

If you miss a dose, skip the missed dose and take your next dose as scheduled.

Possible side effects from using PERPHENAZINE:

These are not all the possible side effects you may have when taking PERPHENAZINE. If you experience any side effects not listed here, tell your healthcare professional.

Side effects with PERPHENAZINE may include:

- sweating,
- frequent urination or lack of bladder control,
- dizziness,
- drowsiness,
- dry mouth,
- stuffy nose

- nausea or vomiting,
- headache,
- menstrual cycle changes,
- changes in libido,
- swelling of the breasts and milk production in both men and women,
- changes in bodyweight,
- changes in appetite,
- increased thirst,
- skin colouring (pigmentation), skin rashes, itching or redness, flaky skin, eczema, skin sensitivity to light,
- increased salivation,
- constipation,
- fever,
- lack of energy,
- swelling in the hands, arms, legs or feet,
- fainting,
- trouble falling asleep and/or staying asleep,
- asthma.

Serious side effects and what to do about them

Frequency/Side Effect/Symptom	Talk to your healthcare professional		Stop taking this drug and get immediate medical help
	Only if severe	In all cases	
Unknown			
Blood disorders (low blood platelet, low white blood cell, and/or low red blood cell counts): frequent infection with fever, chills, soreness of the mouth, gums or throat, fatigue, aches, pains, flu-like symptoms, paleness of the skin, rapid heart rate, shortness of breath, bruising easily, or heavy bleeding.			✓
Heart problems: abnormally fast heartbeat, irregular heartbeat, chest pain, or changes in the rhythm of your heart.			✓
Eye problems: increased pressure in the eye, sensitivity to light, eye pain, headache, vision changes (such as blurred vision, halos around lights, glare, distorted vision, dark or blind spots in the		✓	

Frequency/Side Effect/Symptom	Talk to your healthcare professional		Stop taking this drug and get immediate medical help
	Only if severe	In all cases	
center of your vision, or difficulty with depth perception), swelling or redness in or around the eye			
Paralytic ileus (muscles that move food through the intestines are paralyzed): new or worsening constipation, nausea, vomiting, dehydration, gas, or abdominal pain		✓	
Overheating/dehydration (dry mouth, excessive thirst): thirst, headache, loss of appetite, feel tired and weak, lack of sweating, decreased blood pressure and urine, dark yellow urine.	✓		
Liver problems (including biliary stasis, cholestatic jaundice) : upper right abdominal pain, pain in the back, nausea, vomiting, yellowing of the skin and white of eyes, dark urine, light coloured stool, or itching all over your body.			✓
Allergic reaction : rash, hives, swelling of the face, lips, tongue or throat, difficulty swallowing or breathing, fever, asthma, wheezing, feeling sick to your stomach, itchiness, or vomiting.			✓
Lupus erythematosus-like syndrome : pain and swelling in the joints, skin rash, fatigue, fever.		✓	
Neuroleptic malignant syndrome (NMS) : pronounced muscle stiffness or inflexibility with high fever, rapid or irregular heartbeat, sweating, state of confusion, or reduced consciousness.			✓
Extrapyramidal reactions : muscle stiffness, body spasms, upward eye rolling, exaggeration of reflexes, drooling, difficulty moving how and when you want, masklike face			✓

Frequency/Side Effect/Symptom	Talk to your healthcare professional		Stop taking this drug and get immediate medical help
	Only if severe	In all cases	
(appears to lack emotion), tremors, drooling, or dragging feet as you walk, difficulty swallowing, a feeling of restlessness, or inability to remain motionless.			
Tardive dyskinesia (TD): uncontrollable, unusual, or abnormal movements, muscle twitches of the body, face, mouth, eyes or tongue, or stretching the neck and body.		✓	
Behavioural changes (including worsening of psychotic symptoms): hallucinations, delusions, changes in sleep patterns, confusion, depression, anxiety, anger, restlessness, problems concentrating, disorientation, or agitation.			✓
Exfoliative dermatitis (severe inflammation of the skin): red and peeling skin, scaling, crusting lesions, thickened skin, itching, swollen lymph nodes, fever, malaise, secondary infections (viral or bacterial)			✓
Blood clots: swelling, pain, redness in an arm or leg that can be warm to touch, sudden chest pain, difficulty breathing, and heart palpitations, shortness of breath, chest pain while breathing, coughing up blood.		✓	
Hypotension (low blood pressure): dizziness, fainting, light-headedness, blurred vision, nausea, vomiting, or fatigue (may occur when you go from lying or sitting to standing up).		✓	

Frequency/Side Effect/Symptom	Talk to your healthcare professional		Stop taking this drug and get immediate medical help
	Only if severe	In all cases	
Priapism (persistent and painful erection of the penis lasting longer than 4 hours).			✓
Seizures (fits): loss of consciousness with uncontrollable shaking.			✓
Hyperglycemia (high blood sugar): increased thirst, frequent urination, dry skin, headache, blurred vision and fatigue.	✓		
Hyperprolactinemia (increased levels of prolactin): In men: swelling in the breast, difficulty in getting or maintaining an erection, or other sexual dysfunction. In women: discomfort in the breasts, leaking of milk from the breasts (even if not pregnant), or missing your menstrual period or other problems with your cycle.		✓	

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting side effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (canada.ca/drug-device-reporting) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your healthcare professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

- Store at controlled room temperature (between 15°C to 30°C).
- Do not use after the expiry date shown on the bottle.

- Keep out of reach and sight of children.

If you want more information about PERPHENAZINE:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes the Patient Medication Information by visiting the Health Canada Drug Product Database website ([Drug Product Database: Access the database](#)); the manufacturer's website (<http://www.aapharma.ca/en/>), or by calling 1-877-998-9097.

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