



#### Usage in Pregnancy

Rats or rabbits administered oral haloperidol at doses of 0.5 to 7.5 mg/kg, which are approximately 0.2 to 7 times the maximum recommended human dose (MRHD) of 20 mg/day based on mg/m² body surface area, showed an increase in incidence of resorption, reduced fertility, delayed delivery and pup mortality. No fetal abnormalities were observed at these doses in rats or rabbits. Cleft palate has been observed in mice administered oral haloperidol at a dose of 0.5 mg/kg, which is approximately 0.1 times the MRHD based on mg/m² body surface area.

There are no adequate and well-controlled studies in pregnant women. There are reports, however, of cases of limb malformations observed following maternal use of haloperidol along with other drugs which have suspected teratogenic potential during the first trimester of pregnancy. Causal relationships were not established with these cases. Since such experience does not exclude the possibility of fetal damage due to haloperidol, haloperidol decanoate should be used during pregnancy or in women likely to become pregnant only if the benefit clearly justifies a potential risk to the fetus.

Non-Teratogenic Effects

Neonates exposed to antipsychotic drugs (including haloperidol) 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.

Haloperidol decanoate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

#### Nursing Mothers

Since haloperidol is excreted in human breast milk, infants should not be nursed during drug treatment with haloperidol decanoate.

#### Pediatric Use

Safety and effectiveness of haloperidol decanoate in children have not been established.

#### Geriatric Use

Clinical studies of haloperidol did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not consistently identified differences in responses between the elderly and younger patients. However, the prevalence of tardive dyskinesia appears to be highest among the elderly, especially elderly women (see WARNINGS, Tardive Dyskinesia). Also, the pharmacokinetics of haloperidol in geriatric patients generally warrants the use of lower doses (see DOSAGE AND ADMINISTRATION).

#### Use in Hepatic Impairment

Studies in patients with hepatic impairment have not been conducted. Haloperidol concentrations may increase in hepatically impaired patients, because it is primarily metabolized by the liver and protein binding may decrease.

#### ADVERSE REACTIONS

The following adverse reactions are discussed in more detail in other sections of the labeling:

- WARNINGS, Increased mortality in Elderly Patients with Dementia-Related Psychosis
- WARNINGS, Cardiovascular Effects
- WARNINGS, Tardive Dyskinesia
- WARNINGS, Neuroleptic Malignant Syndrome
- WARNINGS, Hypersensitivity Reactions
- WARNINGS, Falls
- WARNINGS, Combined Use of Haloperidol and Lithium
- WARNINGS, General
- PRECAUTIONS, Leukopenia, Neutropenia, and Agranulocytosis
- PRECAUTIONS, Other
- PRECAUTIONS, Usage in Pregnancy

#### Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug, and may not reflect the rates observed in practice.

The data described below reflect exposure to haloperidol in 410 patients who participated in 13 clinical trials with haloperidol decanoate (15 to 500 mg/month) in the treatment of schizophrenia or schizoaffective disorder. These clinical trials comprised:

- 1 double-blind, active comparator-controlled trial with fluphenazine decanoate.
- 2 trials comparing the decanoate formulation to oral haloperidol.
- 9 open-label trials.
- 1 dose-response trial.

The most common adverse reactions in haloperidol decanoate-treated patients in the double-blind, active comparator-controlled clinical trial with fluphenazine decanoate (≥5%) were: Parkinsonism, and oculogyric crisis.

#### Adverse Reactions Reported at ≥1% Incidence in a Double-Blind Active Comparator-Controlled Clinical Trial

Adverse reactions occurring in ≥1% of haloperidol decanoate-treated patients in a double-blind, clinical trial with the active comparator fluphenazine decanoate are shown in Table 1.

**Table 1.** Adverse Reactions Reported by ≥1% of Haloperidol Decanoate-treated Patients in a Double-Blind Active Comparator-Controlled Clinical Trial with Fluphenazine Decanoate

System/Organ Class Adverse Reaction	Haloperidol decanoate (n=36) %	Fluphenazine decanoate (n=36) %
<b>Gastrointestinal Disorders</b>		
Abdominal pain	2.8	0
<b>Nervous System Disorders</b>		
Extrapyramidal disorder <sup>a</sup> :		
Parkinsonism	30.6	44.4
Oculogyric crisis	5.6	0
Akinesia	2.8	22.2
Akathisia	2.8	13.9
Tremor	2.8	0
Headache	2.8	0

<sup>a</sup> Precise incidence for extrapyramidal disorder cannot be determined; reporting rates of some individual symptoms of extrapyramidal disorder are lower for haloperidol decanoate than for the active comparator, but the terms are included here because the events are considered associated with the drug.

#### Additional Adverse Reactions Reported in Double-Blind, Comparator, Open-Label and Dose-Response Clinical Trials

Additional adverse reactions that are listed below were reported by haloperidol decanoate-treated patients in comparator, open-label, and dose-response clinical trials, or at <1% incidence in a double-blind, active comparator-controlled clinical trial with fluphenazine decanoate.

*Cardiac Disorders:* Tachycardia

*Endocrine Disorders:* Hyperprolactinemia

*Eye Disorders:* Vision blurred

*Gastrointestinal Disorders:* Constipation, Dry mouth, Salivary hypersecretion

*General Disorders and Administration Site Conditions:* Injection site reaction

*Investigations:* Weight increased

*Musculoskeletal and Connective Tissue Disorders:* Muscle rigidity

*Nervous System Disorders:* Dyskinesia, Dystonia, Cogwheel rigidity, Hypertonia, Masked Facies, Sedation, Somnolence

*Reproductive System and Breast Disorders:* Erectile dysfunction

Adverse Reactions Identified in Clinical Trials with Haloperidol (Non-Decanoate Formulations)

The adverse reactions listed below were identified with non-decanoate formulations, and reflect exposure to the active moiety haloperidol in the following:

- 284 patients who participated in 3 double-blind, placebo-controlled clinical trials with haloperidol (injection or oral formulation, 2 to 20 mg/day); two trials were in the treatment of schizophrenia and one in the treatment of bipolar disorder.
- 1295 patients who participated in 16 double-blind, active comparator-controlled clinical trials with haloperidol (injection or oral formulation, 1 to 45 mg/day) in the treatment of schizophrenia.

*Musculoskeletal and Connective Tissue Disorders:* Torticollis, Trismus, Muscle twitching

*Nervous System Disorders:* Neuroleptic malignant syndrome, Tardive dyskinesia, Bradykinesia, Hyperkinesia, Hypokinesia, Dizziness, Nystagmus

*Psychiatric Disorders:* Loss of libido, Restlessness

*Reproductive System and Breast Disorders:* Amenorrhea, Galactorrhea, Dysmenorrhea, Menorrhagia, Breast discomfort

*Skin and Subcutaneous Tissue Disorders:* Acneiform skin reactions

*Vascular Disorders:* Hypotension, Orthostatic hypotension

#### Postmarketing Experience

The following adverse reactions relating to the active moiety haloperidol have been identified during postapproval use of haloperidol or haloperidol decanoate. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

*Blood and Lymphatic System Disorders:* Pancytopenia, Agranulocytosis, Thrombocytopenia, Leukopenia, Neutropenia

*Cardiac Disorders:* Ventricular fibrillation, Torsade de pointes, Ventricular tachycardia, Extrasystoles

*Endocrine Disorders:* Inappropriate antidiuretic hormone secretion

*Gastrointestinal Disorders:* Vomiting, Nausea

*General Disorders and Administration Site Conditions:* Sudden death, Face edema, Edema, Hyperthermia, Hypothermia, Injection site abscess

*Hepatobiliary Disorders:* Acute hepatic failure, Hepatitis, Cholestasis, Jaundice, Liver function test abnormal

*Immune System Disorders:* Anaphylactic reaction, Hypersensitivity

*Investigations:* Electrocardiogram QT prolonged, Weight decreased

*Metabolic and Nutritional Disorders:* Hypoglycemia

*Musculoskeletal and Connective Tissue Disorders:* Rhabdomyolysis

*Nervous System Disorders:* Convulsion, Opisthotonus, Tardive dystonia

*Pregnancy, Puerperium and Perinatal Conditions:* Drug withdrawal syndrome neonatal

*Psychiatric Disorders:* Agitation, Confusional state, Depression, Insomnia

*Renal and Urinary Disorders:* Urinary retention

*Reproductive System and Breast Disorders:* Priapism, Gynecomastia

*Respiratory, Thoracic and Mediastinal Disorders:* Laryngeal edema, Bronchospasm, Laryngospasm, Dyspnea

*Skin and Subcutaneous Tissue Disorders:* Angioedema, Dermatitis exfoliative, Hypersensitivity vasculitis, Photosensitivity reaction, Urticaria, Pruritus, Rash, Hyperhidrosis

**To report SUSPECTED ADVERSE REACTIONS, contact Somerset Therapeutics, LLC at 1-800-417-9175 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

#### OVERDOSAGE

While overdosage is less likely to occur with a parenteral than with an oral medication, information pertaining to haloperidol is presented, modified only to reflect the extended duration of action of haloperidol decanoate.

#### Manifestations

In general, the symptoms of overdosage would be an exaggeration of known pharmacologic effects and adverse reactions, the most prominent of which would be: 1) severe extrapyramidal reactions, 2) hypotension, or 3) sedation. The patient would appear comatose with respiratory depression and hypotension which could be severe enough to produce a shock-like state. The extrapyramidal reactions would be manifested by muscular weakness or rigidity and a generalized or localized tremor, as demonstrated by the akinetic or agitans types, respectively. With accidental overdosage, hypertension rather than hypotension occurred in a two-year old child. The risk of ECG changes associated with torsade de pointes should be considered.

(For further information regarding torsade de pointes, please refer to ADVERSE REACTIONS.)

#### Treatment

Since there is no specific antidote, treatment is primarily supportive. Dialysis is not recommended in the treatment of overdose because it removes only very small amounts of haloperidol. A patent airway must be established by use of an oropharyngeal airway or endotracheal tube or, in prolonged cases of coma, by tracheostomy. Respiratory depression may be counteracted by artificial respiration and mechanical respirators. Hypotension and circulatory collapse may be counteracted by use of intravenous fluids, plasma, or concentrated albumin, and vasopressor agents such as metaraminol, phenylephrine and norepinephrine. Epinephrine must not be used. In case of severe extrapyramidal reactions, antiparkinson medication should be administered, and should be continued for several weeks, and then withdrawn gradually as extrapyramidal symptoms may emerge. ECG and vital signs should be monitored especially for signs of Q-Tc interval prolongation or dysrhythmias and monitoring should continue until the ECG is normal. Severe arrhythmias should be treated with appropriate anti-arrhythmic measures.

In case of an overdose, consult a Certified Poison Control Center (1-800-222-1222).

#### DOSAGE AND ADMINISTRATION

Haloperidol decanoate injection, 50 mg/mL and haloperidol decanoate injection, 100 mg/mL should be administered by deep intramuscular injection. A 21 gauge needle is recommended. The maximum volume per injection site should not exceed 3 mL. DO NOT ADMINISTER INTRAVENOUSLY.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

Haloperidol decanoate injection, 50 mg/mL and haloperidol decanoate injection, 100 mg/mL are intended for use in schizophrenic patients who require prolonged parenteral antipsychotic therapy. These patients must be previously stabilized on antipsychotic medication before considering a conversion to haloperidol decanoate. Furthermore, it is recommended that patients being considered for haloperidol decanoate therapy have been treated with, and tolerate well, short-acting haloperidol in order to reduce the possibility of an unexpected adverse sensitivity to haloperidol. Close clinical supervision is required during the initial period of dose adjustment in order to minimize the risk of overdosage or reappearance of psychotic symptoms before the next injection. During dose adjustment or episodes of exacerbation of symptoms of schizophrenia, haloperidol decanoate therapy can be supplemented with short-acting forms of haloperidol.

The dose of haloperidol decanoate injection, 50 mg/mL or haloperidol decanoate injection, 100 mg/mL should be expressed in terms of its haloperidol content. The starting dose of haloperidol decanoate should be based on the patient's age, clinical history, physical condition, and response to previous antipsychotic therapy. The preferred approach to determining the minimum effective dose is to begin with lower initial doses and to adjust the dose upward as needed. For patients previously maintained on low doses of antipsychotics (e.g. up to the equivalent of 10 mg/day oral haloperidol), it is recommended that the initial dose of haloperidol decanoate be 10–15 times the previous daily dose in oral haloperidol equivalents; limited clinical experience suggests that lower initial doses may be adequate.

#### Initial Therapy

Conversion from oral haloperidol to haloperidol decanoate can be achieved by using an initial dose of haloperidol decanoate that is 10 to 20 times the previous daily dose in oral haloperidol equivalents.

In patients who are elderly, debilitated, or stable on low doses of oral haloperidol (e.g. up to the equivalent of 10 mg/day oral haloperidol), a range of 10 to 15 times the previous daily dose in oral haloperidol equivalents is appropriate for initial conversion.

In patients previously maintained on higher doses of antipsychotics for whom a low dose approach risks recurrence of psychiatric decompensation and in patients whose long-term use of haloperidol has resulted in a tolerance to the drug, 20 times the previous daily dose in oral haloperidol equivalents should be considered for initial conversion, with downward titration on succeeding injections.

The initial dose of haloperidol decanoate should not exceed 100 mg regardless of previous antipsychotic dose requirements. If, therefore, conversion requires more than 100 mg of haloperidol decanoate as an initial dose, that dose should be administered in two injections, i.e. a maximum of 100 mg initially followed by the balance in 3 to 7 days.

#### Maintenance Therapy

The maintenance dosage of haloperidol decanoate must be individualized with titration upward or downward based on therapeutic response. The usual maintenance range is 10 to 15 times the previous daily dose in oral haloperidol equivalents dependent on the clinical response of the patient.

HALOPERIDOL DECANOATE DOSING RECOMMENDATIONS		
Patients	Monthly 1 <sup>st</sup> Month	Maintenance
Stabilized on low daily oral doses (up to 10 mg/day) Elderly or Debilitated	10–15 × Daily Oral Dose	10–15 × Previous Daily Oral Dose
High dose Risk of relapse Tolerant to oral haloperidol	20 × Daily Oral Dose	10–15 × Previous Daily Oral Dose

Close clinical supervision is required during initiation and stabilization of haloperidol decanoate therapy. Haloperidol decanoate is usually administered monthly or every 4 weeks. However, variation in patient response may dictate a need for adjustment of the dosing interval as well as the dose (see CLINICAL PHARMACOLOGY).

Clinical experience with haloperidol decanoate at doses greater than 450 mg per month has been limited.

#### HOW SUPPLIED

Haloperidol decanoate injection, 50 mg haloperidol as 70.52 mg per mL haloperidol decanoate is supplied as:

NDC Number	Strength	Pack style Code	Description
70069-866-10	50 mg/mL*	10 vials per carton	1 mL fill in 2 mL Single-Dose Vial Discard unused portion
70069-866-01	50mg/mL	1 vial per carton	1 mL fill in 2 mL Single-Dose Vial Discard unused portion

\* as haloperidol

Haloperidol decanoate injection, 100 mg haloperidol as 141.04 mg per mL haloperidol decanoate is supplied as:

NDC Number	Strength	Pack style Code	Description
70069-867-10	100 mg/mL*	10 vials per carton	1 mL fill in 2 mL Single-Dose Vial Discard unused portion
70069-867-01	100 mg/mL*	1 vial per carton	1 mL fill in 2 mL Single-Dose Vial Discard unused portion
70069-867-05	100 mg/mL*	5 vials per carton	1 mL fill in 2 mL Single-Dose Vial Discard unused portion
70069-868-01	500 mg/5 mL* (100 mg/mL)	1 vial per carton	5 mL fill in 5 mL Multiple-Dose Vial

\* as haloperidol

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 Temperature]. Do not refrigerate or freeze.

Protect from light.

Retain in carton until contents are used.

Keep out of reach of children.

#### Manufactured for:

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