Haldol/Haldol Decanoate
(haloperidol)

Generic name: Haloperidol and haloperidol decanoate
Available strengths: 0.5 mg, 1 mg, 2 mg, 5 mg, 10 mg, 20 mg tablets; 2 mg/mL oral concentrate; 5 mg/mL injection; 50 mg/mL, 100 mg/mL injection (Haldol Decanoate)
Available in generic: Yes
Drug class: First-generation (conventional) antipsychotic

General Information

Haldol (haloperidol) belongs to a class of antipsychotics known as the first-generation antipsychotics, sometimes referred to as conventional or typical antipsychotics. The first-generation antipsychotics represent an older class of antipsychotics that have been the standard for treating psychotic disorders for many decades. When compared with a newer class of second-generation antipsychotics, these earlier antipsychotics are referred to as typical or conventional because they lack the wider spectrum of therapeutic activity. The first-generation antipsychotics are also more likely to induce side effects that cause movement disorders, such as extrapyramidal symptoms (EPS) and tardive dyskinesia (TD), than the newer antipsychotics.

Haldol is a relatively high-potency agent when compared with other first-generation antipsychotics such as Thorazine (chlorpromazine) and Mellaril (thioridazine). The high-potency antipsychotics are less sedating and have fewer anticholinergic side effects, but they are associated with more neurological disturbances that cause EPS than the lower-potency antipsychotics.

Haldol was approved by the U.S. Food and Drug Administration for treatment of psychotic disorders, including schizophrenia, schizoaffective disorder, drug-induced psychosis, Tourette’s syndrome, and behavioral problems in children with combative and explosive disorders. The use of a drug for its approved indications is called its labeled use. In clinical practice, however, physicians often prescribe drugs for unlabeled (“off-label”) uses when published clinical studies, case reports, or their own clinical experiences support the efficacy and safety of the medications for these uses. For instance, Haldol may be used with a mood stabilizer to treat acute mania, since the mood stabilizer has a slower onset of action. After the symptoms of mania abate, Haldol is discontinued and the mood stabilizer is continued alone.
Haldol is available in generic form in all preparations from various generic manufacturers. Haldol also comes in a long-acting preparation, **Haldol Decanoate** (haloperidol decanoate). Given by deep intramuscular injection, Haldol Decanoate is deposited into muscle tissues and is absorbed slowly into circulation from its depot site. For patients who may have difficulty taking their medication as scheduled, Haldol Decanoate offers the convenience of an injectable form that can be given every 3–4 weeks without the need of oral medication.

### Dosing Information

The recommended starting dose for oral Haldol for treatment of schizophrenia is 2–10 mg, taken once daily, preferably in the evening or at bedtime. It may be taken without regard to meals. The dosage may be increased in increments of 5 mg/day on a weekly basis. The dosage range is usually between 10 mg/day and 20 mg/day and may be taken twice a day if the patient cannot tolerate once-a-day dosing. Dosages greater than 20 mg/day may be needed for some patients.

Haldol Decanoate is administered by deep intramuscular injection. Patients’ symptoms should be stabilized while they are taking the oral form before converting to the injection. The initial dosage of Haldol Decanoate should not exceed 100 mg, and the patient may need to continue taking oral Haldol until the effective decanoate dosage is established. The usual maintenance dosage for Haldol Decanoate is 100–200 mg every 3–4 weeks. From the intramuscular site of injection, Haldol is split from the decanoate chain and is slowly absorbed into the bloodstream.

### Common Side Effects

Haldol is less sedating than the lower-potency antipsychotics, but it induces bothersome side effects called **extrapyramidal symptoms**. These are neurological disturbances caused by antipsychotics (or a neurological disorder) in the area of the brain that controls motor coordination. Haldol is more likely to induce EPS than are lower-potency agents. Antipsychotics can produce symptoms that mimic Parkinson’s disease. They cause Parkinson-like symptoms (**parkinsonism**) that include muscle stiffness, rigidity, tremor, drooling, and a “mask-like” facial expression. However, unlike Parkinson’s disease, which is a progressive neurological disease, parkinsonism from treatment with an antipsychotic is reversible. The Parkinson-like symptoms may be treated, and prevented, by using antiparkinson agents (also called anticholinergic agents) such as Cogentin (benztropine), Benadryl (diphenhydramine), Artane ( trihexyphenidyl), and Kemadrin (procyclidine).

**Akathisia** is another form of EPS characterized by a subjective sense of restlessness accompanied by fidgeting, inability to sit still, nervousness, muscle discomfort, and agitation. Generally, antiparkinson agents are not effective in managing akathisia. Use of Inderal (propranolol), a **beta-blocker**, may be helpful and is sometimes prescribed by physicians.

**Dystonia** is a type of EPS with acute onset. The patient may develop a sudden spasm of the muscles of the tongue, jaw, and neck. **This is not an allergic reaction to the antipsychotic medication.** Although a dystonic reaction may be painful and frightening, it can be rapidly reversed with an intramuscular injection of an anticholinergic medication such as Cogentin or Benadryl. With a dystonic reaction, the patient should seek immediate medical attention and receive treatment.

Elevation of **prolactin levels** is common with conventional antipsychotics. Prolactin is a hormone produced in the area of the brain called the pituitary gland. It is normally elevated in women following childbirth, stimulating lactation, or milk production. The effects of elevated prolactin include breast enlargement and milk production (**galactorrhea**) in both women and men. Elevated prolactin is associated with impotence in men and irregular menstrual cycles or absence of menstruation in women. When side effects from elevated prolactin levels become bothersome, the alternative is to switch to one of the second-generation antipsychotic agents with no propensity to elevate this hormone.
Haldol has a moderate effect on weight gain. It is unclear whether this is due to an underlying metabolic change caused by the antipsychotic or to increased appetite. Weight should be monitored closely during therapy, and if weight gain occurs, an intervention program of diet and exercise should be started.

Orthostatic hypotension and anticholinergic side effects, which occur more frequently with lower-potency antipsychotics, are usually not as troubling with higher-potency agents. (Refer to the handout on “First-Generation Antipsychotics” for an explanation of these side effects.)

**Adverse Reactions and Precautions**

Haldol may cause drowsiness and sedation and impair physical coordination and mental alertness. Patients should avoid potentially dangerous activities, such as driving a car or operating machinery, until they are sure that these side effects will not affect their ability to perform these tasks.

*Tardive dyskinesia* is a potential adverse reaction from antipsychotic medications. It is characterized by late-onset abnormal involuntary movements. TD is a potentially irreversible condition with symptoms that commonly include “pill-rolling” movements of the fingers, darting and writhing movements of the tongue, lip puckering, facial grimacing, and other irregular movements. The risk of TD is associated with the duration of exposure to antipsychotic medication, and this risk increases with age. The conventional antipsychotics are associated with a greater risk of TD than are the more recent second-generation antipsychotics.

*Neuroleptic malignant syndrome* (NMS) is a rare, toxic reaction to antipsychotics. The symptoms are severe muscle stiffness, rigidity, elevated body temperature, increased heart rate and blood pressure, irregular pulse, and profuse sweating. NMS may lead to delirium and coma. It can be fatal if medical intervention is not immediately provided. There are no tests to predict whether an individual is susceptible to developing NMS when exposed to an antipsychotic. Thus NMS must be recognized early because it is a medical emergency that requires immediate discontinuation of the antipsychotic, hospitalization, and intensive medical treatment.

Antipsychotics can lower the seizure threshold and induce seizures in susceptible individuals, especially those with a history of seizure disorder. Patients with a seizure disorder who are receiving anticonvulsants often receive antipsychotics without any increase in seizures.

**Use in Pregnancy and Breastfeeding: Pregnancy Category C**

Haldol has not been tested in women to determine its safety in pregnancy. The effects of the medication on the developing fetus in pregnant women are unknown. In animal studies, there was no evidence of harm to the fetus when exposed to Haldol. Animal studies, however, are not always predictive of effects in humans. Women who are pregnant or may become pregnant should discuss this with their physician. Some women may experience a recurrence of their psychosis when they stop Haldol. In these circumstances, the physician may discuss the need to restart the medication or seek an alternative medication or treatment.

Nursing mothers should not take Haldol, because small amounts will pass into breast milk and be ingested by the baby. If stopping the antipsychotic is not an alternative, breastfeeding should not be started or should be discontinued.

**Possible Drug Interactions**

Some medications when taken concomitantly with Haldol may result in drug interactions that alter their levels, which may produce undesired reactions. The possible drug interactions with Haldol are summarized in the table on the next page.
Patients taking Haldol should not consume alcohol because the combination may impair thinking, judgment, and coordination.

### Overdose

Depression of the central nervous system (CNS) with deep somnolence, low blood pressure, and EPS are common signs of Haldol overdose. More serious complications include agitation, restlessness, convulsions, fever, arrhythmias, and coma. The risk of fatality from the overdose depends on the amount of Haldol ingested and whether it was combined with other medications, especially other CNS depressants.

Any suspected overdose should be treated as an emergency. The person should be taken to the emergency department for observation and treatment. The prescription bottle of medication (and any other medication suspected in the overdose) should be brought as well, because the information on the prescription label can be helpful to the treating physician in determining the number of pills ingested.

### Special Considerations

- Do not discontinue your medication without consulting your physician.
- If you miss a dose, take it as soon as possible. If it is close to your next scheduled dose, skip the missed dose and continue on your regular dosing schedule, but do not take double doses.
- Haldol may be taken with or without food.
- Haldol may cause sedation and drowsiness, especially during initiation of therapy, and impair your alertness. Use caution when driving or performing tasks that require alertness.
- Store the medication in its originally labeled, light-resistant container, away from heat and moisture. Heat and moisture may precipitate breakdown of your medication.
- Keep your medication out of reach of children.

If you have any questions about your medication, consult your physician or pharmacist.