



**HIGHLIGHTS OF PRESCRIBING INFORMATION**  
These highlights do not include all the information needed to use donepezil hydrochloride safely and effectively. See full prescribing information for donepezil hydrochloride tablets.  
**DONEPEZIL hydrochloride tablets USP, for oral use**  
Initial U.S. Approval: 1996

— **RECENT MAJOR CHANGES** —

None

— **INDICATIONS AND USAGE** —  
Donepezil hydrochloride tablet USP is an acetylcholinesterase inhibitor indicated for the treatment of dementia of the Alzheimer's type. Efficacy has been demonstrated in patients with mild, moderate, and severe Alzheimer's Disease (1).  
— **DOSE AND ADMINISTRATION** —  
— **Mild to Moderate Alzheimer's Disease** — 5 mg or 10 mg administered once daily (2)  
— **Severe Alzheimer's Disease** — 10 mg administered once daily (2)  
A dose of 10 mg once daily can be administered once patients have been on a daily dose of 5 mg for 4 to 6 weeks.  
— **ADVERSE REACTIONS** AND **STRATEGIC USE** —  
— **Tablets: 5 mg and 10 mg (3)** —

— **CONTRAINDICATIONS** —  
— **Warnings and Precautions** —  
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• Donepezil hydrochloride can cause vomiting. Patients should be observed closely at initiation of treatment and after dose increases (1, 3).  
• Donepezil should be avoided during or shortly after an acute or occult gastrointestinal (GI) bleeding, especially those at increased risk for developing ulcers (4).  
• Cholinesterases may cause bladder outflow obstructions (5, 6).  
• Cholinesterases are believed to have some potential to cause generalized convulsions (5, 7).  
• Cholinesterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive pulmonary disease (8).  
— **ADVERSE REACTIONS** —  
The most common adverse reactions in clinical studies of donepezil hydrochloride in dementia, dementia, insomnia, vomiting, muscle cramps, fatigue, and anorexia (1).  
To report suspected adverse reactions, contact Merck Labs Limited at 866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.  
— **DRUG INTERACTIONS** —  
• Cholinesterase inhibitors have the potential to interfere with the activity of anticholinergic medications (7, 8).  
• A synergistic effect may be expected with concomitant administration of succinylcholine, similar neuromuscular blocking agents, or cholinergic agonists (7, 3).  
— **USE IN SPECIFIC POPULATIONS** —  
— **Based on animal data, donepezil hydrochloride may cause fetal harm (1).** —  
**See 17 for PATIENT COUNSELING INFORMATION**  
Revised: September 2014

cholinomimetic effects. These include diarrhea, anorexia, vomiting, nausea, and tachycardia. These adverse events were often of mild intensity and transient, resolving during continued donepezil hydrochloride treatment without the need for dose modification.  
**Adverse Events Reported in Controlled Trials**  
Table 4 lists adverse events that were reported in at least 2% of patients in placebo-controlled trials who received donepezil hydrochloride and for which the rate of occurrence was greater for patients treated with donepezil hydrochloride than with placebo.  
**Table 4. Adverse Events Reported in Controlled Clinical Trials in Severe Alzheimer's Disease or in a Subset of Patients Receiving Donepezil Hydrochloride and in Higher Frequency than Placebo Treated Patients**

Body System/Adverse Event	Placebo (n=362)	Donepezil Hydrochloride(n=501)
<b>Percent of Patients with Any Adverse Event</b>	72	81
<b>Body as a Whole</b>		
Headache	12	13
Insomnia	3	11
Nausea	2	4
Fatigue	2	3
Stomach Pain	2	3
Diarrhea	1	2
Chest Pain	<1	2
<b>Cardiovascular System</b>		
Tachycardia	2	3
Hypertension	1	2
Edema	1	2
Orthostatic	1	2
<b>Digestive System</b>		
Diarrhea	4	10
Nausea	4	8
Anorexia	3	6
Vomiting	2	6
Stomach Pain	2	6
Constipation	1	2
<b>Musculoskeletal System</b>		
Arthralgia	2	5
Back Pain	1	2
Neck Pain	1	2
Joint Pain	1	2
Myalgia	1	2
Stiffness	1	2
<b>Respiratory System</b>		
Cough	2	3
Upper Respiratory Infection	1	2
<b>Genitourinary System</b>		
Urinary Incontinence	1	2

**Patient Package Insert**  
**Donepezil Hydrochloride Tablets**  
Read the Patient Information that comes with donepezil hydrochloride tablets before the patient starts taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with the doctor about Alzheimer's disease or treatment for it. If you have questions, ask the doctor or pharmacist.  
**What is donepezil hydrochloride tablet?**  
Donepezil hydrochloride comes as donepezil hydrochloride film-coated tablets in dosage strengths of 5 mg and 10 mg.  
Donepezil hydrochloride tablet is a prescription medicine used to treat mild, moderate and severe Alzheimer's disease. Donepezil hydrochloride tablet can help with mental function and with doing daily tasks. Donepezil hydrochloride tablet does not cure Alzheimer's disease or prevent it from getting worse. Some people may:  
• Seem much better  
• Get better in small ways or stay the same  
• Get worse over time but slower than expected  
• Not change and then get worse as expected  
Donepezil hydrochloride tablets do not cure Alzheimer's disease. All patients with Alzheimer's disease get worse over time, even if they take donepezil hydrochloride tablets.  
Donepezil hydrochloride tablets have not been approved as a treatment for any medical condition in children.  
**Who should not take donepezil hydrochloride tablet?**  
The patient should not take donepezil hydrochloride tablet if allergic to any of the ingredients in donepezil hydrochloride tablet or if allergic to other cholinesterase inhibitors. Ask the patient's doctor if they are not sure. Do not take this tablet if you are taking any of the following:  
**What should I tell the doctor before the patient takes donepezil hydrochloride tablet?**  
**Tell the doctor about all the patient's present or past health problems.**  
Include:  
• Any heart problems including problems with irregular, slow or fast heartbeats  
• Asthma or lung problems  
• A seizure  
• Stomach ulcers  
• Difficulty passing urine  
• Liver or kidney problems  
• Trouble swallowing tablets  
• Present pregnancy or plans to become pregnant. It is not known if donepezil hydrochloride passes into breast milk. Donepezil hydrochloride tablet is not for women who are breast feeding.  
**Tell the doctor about all the medicines the patient takes.** Include:  
• Donepezil hydrochloride tablets and other prescription medicines, vitamins, and herbal products. Donepezil hydrochloride tablets and other prescription medicines may affect each other.  
Be particularly sure to tell the doctor if the patient takes aspirin or medicines called monoamine oxidase inhibitors (MAOIs), both prescription and non-prescription. Ask the doctor or pharmacist if you are not sure if any of the patient's medicines are MAOIs. Tablets MAOIs and donepezil hydrochloride tablets together may make the patient more likely to get stomach ulcers.  
Donepezil hydrochloride tablets taken with certain medicines used for anesthesia may cause side effects. Tell the doctor about the patient or disease that the patient takes donepezil hydrochloride tablets before the patient has:  
• surgery  
• medical procedures  
• dental surgery or procedures.  
**Know the medicines that the patient takes.** Keep a list of all the patient's medicines. Show it to the doctor or pharmacist before the patient starts or changes the dose of any medicine.  
**How should the patient take donepezil hydrochloride tablets?**  
• Give donepezil hydrochloride tablets exactly as prescribed by the doctor. Do not stop donepezil hydrochloride tablets or change the dose without talking with the doctor first.  
• Give donepezil hydrochloride tablets one time each day. Donepezil hydrochloride tablets can be taken with or without food.  
• If you miss giving the patient a dose of donepezil hydrochloride tablets, ask the doctor. Do not give the next dose at the usual time. Do not give 2 doses at the same time.  
• If you give donepezil hydrochloride tablets as missed for 7 days or more, talk with the doctor before starting again.  
• If you give the patient tablets that look much different than donepezil hydrochloride tablets of one time, call the doctor or poison control center, or go to the emergency room right away.  
**What are the possible side effects of donepezil hydrochloride tablets?**  
Donepezil hydrochloride tablets may cause the following serious side effects:  
• slow heartbeat and fainting. This happens more often in patients with heart problems. Call the doctor right away if the patient faints while taking donepezil hydrochloride tablets.  
• more stomach acid. This raises the chance of ulcers and bleeding. The risk is higher for patients who had ulcers, or take aspirin or NSAIDs.  
• worsening of lung problems in people with chronic or other lung disease.  
• seizures.  
• difficulty passing urine.  
**Call the doctor right away if the patient has:**  
• fainting  
• numbness or stomach pain that is new or isn't going away.  
• nausea or vomiting, blood in the vomit, dark or bloody stools like coffee grounds.  
• bowel movements or stools that look like black tar.  
• new or worse asthma or breathing problems.  
• seizures.  
• difficulty passing urine.  
**The most common side effects of donepezil hydrochloride tablets are:**  
• nausea  
• vomiting  
• muscle cramps  
• feeling dizzy  
• not wanting to eat

**FULL PRESCRIBING INFORMATION**  
**1 INDICATIONS AND USAGE**  
Donepezil hydrochloride tablet USP is indicated for the treatment of dementia of the Alzheimer's type. Efficacy has been demonstrated in patients with mild, moderate, and severe Alzheimer's Disease.  
**2 DOSE AND ADMINISTRATION**  
Donepezil hydrochloride tablet should be taken in the evening, just prior to retiring.  
Donepezil hydrochloride tablet can be taken with or without food.  
**2.1 Mild to Moderate Alzheimer's Disease**  
The dosage of donepezil hydrochloride tablet shown to be effective in controlled clinical trials was 5 mg or 10 mg administered once per day.  
The higher dose of 10 mg did not provide a statistically significantly greater clinical benefit than 5 mg. There is no information on the effect of donepezil hydrochloride tablet on the risk of falls. Based on these data, the 5 mg dose is preferred. However, based upon order of group mean scores and dose analysis of data from these clinical trials, it is recommended that patients be treated with 5 mg or 10 mg once daily. The 5 mg and 10 mg doses are associated with a higher incidence of cholinergic adverse events compared to the 5 mg dose. In open-label trials using a 4-week titration, the 5 mg and 10 mg doses of donepezil hydrochloride tablet might provide additional benefit for some patients. Accordingly, whether or not to employ a dose of 10 mg is a matter of prescriber and patient preference.  
**2.2 Severe Alzheimer's Disease**  
Donepezil hydrochloride tablet has been shown to be effective in controlled clinical trials at doses of 10 mg administered once daily.  
**2.3 Titration**  
The recommended starting dose of donepezil hydrochloride is 5 mg once daily. Evidence from the controlled trials in mild to moderate Alzheimer's disease indicates that the 10 mg dose, with a one-week titration, is likely to be associated with a higher incidence of cholinergic adverse events compared to the 5 mg dose. In open-label trials using a 4-week titration, the 5 mg and 10 mg doses of donepezil hydrochloride tablet might provide additional benefit for some patients. Therefore, because donepezil hydrochloride study data is achieved about 15 days after it is started and because the incidence of unwanted effect may be influenced by the rate of dose escalation, a dose of 10 mg should not be administered until patients have been on a daily dose of 5 mg for 4 to 6 weeks.  
**3 DOSE FORMS AND STRENGTHS**  
Donepezil hydrochloride is supplied as film coated, round tablets containing 5 mg, or 10 mg of donepezil hydrochloride.  
The 5 mg tablets are white round biconvex, film coated tablets debossed with "1" on one side and "21" on the other side.  
The 10 mg tablets are yellow round biconvex, film coated tablets debossed with "1" on one side and "21" on the other side.  
**4 CONTRAINDICATIONS**  
Donepezil hydrochloride tablet is contraindicated in patients with known hypersensitivity to donepezil hydrochloride or its piperidine derivatives.  
**5 WARNINGS AND PRECAUTIONS**  
**5.1 Asthenia**  
Donepezil hydrochloride, as a cholinesterase inhibitor, is likely to exaggerate succinylcholine-type muscle relaxation during anesthesia.  
**5.2 Cardiovascular Conditions**  
Because of their pharmacological action, cholinesterase inhibitors may have vagotonic effects on the sinus and atrioventricular nodes. This effect may manifest as bradycardia or heart block in patients both with and without known underlying cardiac conduction abnormalities. Syncope episodes have been reported in association with the use of donepezil hydrochloride.  
**5.3 Nausea and Vomiting**  
Donepezil hydrochloride, as a predictable consequence of its pharmacological properties, has been shown to produce diarrhea, nausea, and vomiting. These effects have been mild and transient, sometimes lasting more than three weeks, and have resolved during continued treatment with donepezil hydrochloride, patients should be observed closely at the initiation of treatment and after dose increases.  
**5.4 Pupils Under Dilator and GI Bleeding**  
Through their parasympathetic action, cholinesterase inhibitors may be expected to increase pupillary accommodation due to increased cholinergic activity. Therefore, patients should be monitored closely for symptoms of acute or occult gastrointestinal bleeding, especially those at increased risk for developing ulcers, e.g., those with a history of acute or occult gastrointestinal bleeding, especially those at increased risk for developing ulcers, e.g., those with a history of acute or occult gastrointestinal bleeding, especially those at increased risk for developing ulcers, e.g., those with a history of acute or occult gastrointestinal bleeding.  
**5.5 Gastrointestinal Conditions**  
Although not observed in clinical trials of donepezil hydrochloride, cholinesterases may cause bladder outflow obstruction.  
**5.6 Neurological Conditions: Seizures**  
Cholinesterases are believed to have some potential to cause generalized convulsions. However, seizure activity also may be a manifestation of Alzheimer's disease.  
**5.7 Pulmonary Conditions**  
Because of their cholinergic actions, cholinesterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive pulmonary disease.  
**6 ADVERSE REACTIONS**  
**6.1 Clinical Studies Experience**  
**Donepezil Hydrochloride 5 mg and 10 mg**  
**Adverse Events Leading to Discontinuation**  
The rates of discontinuation from controlled clinical trials of donepezil hydrochloride due to adverse events for the donepezil hydrochloride 5 mg treatment groups were comparable to those of placebo treatment groups at approximately 5%. The rate of discontinuation of patients who received 5 mg excursions from 5 mg to 10 mg was higher at 13%.  
The most common adverse events leading to discontinuation, defined as those occurring in at least 2% of patients in at least one of the most incidence seen in placebo patients, are shown in Table 1.

**Table 1. Most Frequent Adverse Events Leading to Discontinuation from Controlled Clinical Trials by Dose Group**

Patients Randomized	Placebo	5 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Events/Discontinuation			
Diarrhea	1%	1%	3%
Headache	0%	<1%	3%
Vomiting	<1%	<1%	2%

**Most Frequent Adverse Events Seen in Association with the Use of Donepezil Hydrochloride**  
The most common adverse events, defined as those occurring at a frequency of at least 5% in patients receiving 10 mg/day and twice the placebo rate, are largely predicted by donepezil hydrochloride's cholinergic effects. These include nausea, diarrhea, insomnia, vomiting, muscle cramp, fatigue, and anorexia. These adverse events were often of mild intensity and transient, resolving during continued donepezil hydrochloride treatment without the need for dose modification.  
It is interesting to suggest that the frequency of these common adverse events may be affected by the rate of titration. An open-label study was conducted with 200 patients who received placebo in the 15 and 30-week studies. These patients were treated to a dose of 10 mg/day over a week period. The rates of common adverse events were lower than those seen in patients treated to 10 mg/day over a week period, and were comparable to those seen in patients on 5 mg/day.  
See Table 2 for a comparison of the most common adverse events following one and two week titration regimens.

**Table 2. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 3. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 4. Adverse Events Reported in Controlled Clinical Trials in Severe Alzheimer's Disease or in a Subset of Patients Receiving Donepezil Hydrochloride and in Higher Frequency than Placebo Treated Patients**

Body System/Adverse Event	Placebo (n=362)	Donepezil Hydrochloride (n=501)
<b>Percent of Patients with Any Adverse Event</b>	72	81
<b>Body as a Whole</b>		
Headache	9	10
Insomnia	3	11
Nausea	2	4
Stomach Pain	2	3
Diarrhea	1	2
Fatigue	2	3
Orthostatic	1	2
<b>Cardiovascular System</b>		
Tachycardia	2	3
Hypertension	1	2
Edema	1	2
<b>Digestive System</b>		
Diarrhea	4	10
Nausea	4	8
Anorexia	3	6
Vomiting	2	6
Stomach Pain	2	6
Constipation	1	2
<b>Respiratory System</b>		
Cough	2	3
Upper Respiratory Infection	1	2
<b>Genitourinary System</b>		
Urinary Incontinence	1	2

**Table 5. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 6. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 7. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 8. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 9. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 10. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 11. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 12. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 13. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%

**Table 14. Comparison of Rates of Adverse Events in Mild to Moderate Patients Treated to 10 mg/day over 1 and 2 Weeks**

Adverse Event	No titration	10 mg/day Donepezil Hydrochloride	10 mg/day Donepezil Hydrochloride
Nausea	3%	5%	5%
Diarrhea	0%	8%	15%
Headache	0%	4%	14%
Fatigue	3%	4%	9%
Vomiting	3%	3%	8%
Muscle cramps	2%	3%	3%
Anorexia	2%	3%	3%



