Alzheimer's Disease Medications

FACT SHEET

Alzheimer's Disease Medications — Get the Facts

- Treatment for Alzheimer's
- Alzheimer's Medications
- Dosage and Side Effects
- For More Information

everal prescription drugs are currently approved by the U.S. Food and Drug Administration (FDA) to treat people who have been diagnosed with Alzheimer's disease. Treating the symptoms of Alzheimer's can provide people with comfort, dignity, and independence for a longer period of time and can encourage and assist their caregivers as well.

Most medicines work best for people in the early or middle stages of Alzheimer's. It is important to understand that none of these medications stops the disease itself.

Treatment for Mild to Moderate Alzheimer's

Medications called cholinesterase inhibitors are prescribed for mild to moderate Alzheimer's disease. These drugs may help reduce some symptoms and help control some behavioral symptoms. The medications are Razadyne® (galantamine), Exelon® (rivastigmine), and Aricept® (donepezil).

Scientists do not yet fully understand how cholinesterase inhibitors work to treat Alzheimer's disease, but research indicates that they prevent the breakdown of acetylcholine, a brain chemical believed to be important for memory and thinking. As Alzheimer's progresses, the brain produces less and less acetylcholine; therefore, cholinesterase inhibitors may eventually lose their effect.

No published study directly compares these drugs. Because they work in a similar way, switching from one of these drugs to another probably will not produce significantly different results. However, an Alzheimer's patient may respond better to one drug than another.

Treatment for Moderate to Severe Alzheimer's

A medication known as Namenda® (memantine), an N-methyl D-aspartate (NMDA) antagonist, is prescribed to treat moderate to severe Alzheimer's disease. This drug's main effect is to decrease symptoms, which could allow some people to maintain certain daily functions a little longer than they would without the medication. For example, Namenda® may help a person in the later stages of the disease maintain his or her ability to use the bathroom independently for several more months, a benefit for both the person with Alzheimer's and caregivers.

The FDA has also approved Aricept®, the Exelon® patch, and Namzaric®, a (continued on back)



Medications to Treat Alzheimer's Disease

This brief summary does not include all information important for patient use and should not be used as a substitute for professional medical advice. Consult the prescribing doctor and read the package insert before using these or any other medications or supplements.

DRUG NAME	DRUG TYPE AND USE	HOW IT WORKS	COMMON SIDE EFFECTS	MANUFACTURER'S RECOMMENDED DOSAGE	FOR MORE INFORMATION
Aricept® (donepezil)	Cholinesterase inhibitor prescribed to treat symptoms of mild, moderate, and severe Alzheimer's	Prevents the breakdown of acetylcholine in the brain	Nausea, vomiting, diarrhea, muscle cramps, fatigue, weight loss	 Tablet*: Initial dose of 5 mg once a day; may increase dose to 10 mg/day after 4-6 weeks if well tolerated, then to 23 mg/day after at least 3 months Orally disintegrating tablet*: Same dosage as above (not available in 23 mg) 	For current information about this drug's safety and use, visit www.aricept.com.
Exelon® (rivastigmine)	Cholinesterase inhibitor prescribed to treat symptoms of mild to moderate Alzheimer's (patch is also for severe Alzheimer's)	Prevents the breakdown of acetylcholine and butyrylcholine (a brain chemical similar to acetylcholine) in the brain	Nausea, vomiting, diarrhea, weight loss, indigestion, muscle weakness	 Capsule*: Initial dose of 3 mg/day (1.5 mg twice a day); may increase dose to 6 mg/day (3 mg twice a day), 9 mg/day (4.5 mg twice a day), and 12 mg/day (6 mg twice a day) at minimum 2-week intervals if well tolerated Patch*: Initial dose of 4.6 mg once a day; may increase dose to 9.5 mg once a day and 13.3 mg once a day at minimum 4-week intervals if well tolerated 	For current information about this drug's safety and use, visit www.fda.gov/Drugs. Click on "Search Drugs@FDA," search for Exelon, and click on drug-name links to see label information.
Namenda® (memantine)	N-methyl D-aspartate (NMDA) antagonist prescribed to treat symptoms of moderate to severe Alzheimer's	Blocks the toxic effects associated with excess glutamate and regulates glutamate activation	Dizziness, headache, diarrhea, constipation, confusion	 Tablet*: Initial dose of 5 mg once a day; may increase dose to 10 mg/day (5 mg twice a day), 15 mg/day (5 mg and 10 mg as separate doses), and 20 mg/day (10 mg twice a day) at minimum 1-week intervals if well tolerated Oral solution*: Same dosage as above Extended-release capsule*: Initial dose of 7 mg once a day; may increase dose to 14 mg/day, 21 mg/day, and 28 mg/day at minimum 1-week intervals if well tolerated 	For current information about this drug's safety and use, visit www.namenda.com and www.namendaxr.com. Click on "Full Prescribing Information" to see the drug label.
Namzaric® (memantine and donepezil)	NMDA antagonist and cholinesterase inhibitor prescribed to treat symptoms of moderate to severe Alzheimer's	Blocks the toxic effects associated with excess glutamate and prevents the breakdown of acetylcholine in the brain	Headache, nausea, vomiting, diarrhea, dizziness, anorexia	 Extended-release capsule*: Initial dose of 28 mg memantine/10 mg donepezil once a day if stabilized on memantine and donepezil If stabilized on donepezil only, initial dose of 7 mg memantine/10 mg donepezil once a day; may increase dose to 28 mg memantine/10 mg donepezil in 7 mg increments at minimum 1-week intervals if well tolerated Only 14 mg memantine/10 mg donepezil and 28 mg memantine/10 mg donepezil available as generic 	For current information about this drug's safety and use, visit www.namzaric.com. Click on "Full Prescribing Information" to see the drug label.
Razadyne® (galantamine)	Cholinesterase inhibitor prescribed to treat symptoms of mild to moderate Alzheimer's	Prevents the breakdown of acetylcholine and stimulates nicotinic receptors to release more acetylcholine in the brain	Nausea, vomiting, diarrhea, decreased appetite, dizziness, headache	 Tablet*: Initial dose of 8 mg/day (4 mg twice a day); may increase dose to 16 mg/day (8 mg twice a day) and 24 mg/day (12 mg twice a day) at minimum 4-week intervals if well tolerated Extended-release capsule*: Same dosage as above but taken once a day 	For current information about this drug's safety and use, visit www.janssenmd.com/razadyne. Click on "Full Prescribing Information" to see the drug label.

^{*}Available as a generic drug.

(continued from front)

combination of Namenda® and Aricept®, for the treatment of moderate to severe Alzheimer's disease.

Namenda® is believed to work by regulating glutamate, an important brain chemical. When produced in excessive amounts, glutamate may lead to brain cell death. Because NMDA antagonists work differently from cholinesterase inhibitors, the two types of drugs can be prescribed in combination.

Dosage and Side Effects

Doctors usually start patients at low drug doses and gradually increase the dosage based on how well a patient tolerates the drug. There is some evidence that certain people may benefit from higher doses of the cholinesterase inhibitors. However, the higher the dose, the more likely side effects are to occur. The recommended dosages of drugs prescribed to treat the symptoms of Alzheimer's and the drugs' possible side effects are summarized in the table (see inside).

Patients should be monitored when a drug is started. Report any unusual symptoms to the prescribing doctor right away. It is important to follow the doctor's instructions when taking any medication, including vitamins and herbal supplements. Also, let the doctor know before adding or changing any medications. For more information about Alzheimer's medications, including treatment for behavioral symptoms, visit www.nia.nih.gov/health/how-alzheimers-disease-treated.

Testing New Alzheimer's Drugs

Clinical trials are the best way to find out if promising new treatments are safe and effective in humans. Volunteers are needed for many Alzheimer's trials conducted around the United States. To learn more, talk with your doctor or visit the ADEAR Center's listing of clinical trials at www.nia.nih.gov/alzheimers/clinical-trials.

For More Information

Alzheimer's and related Dementias Education and Referral (ADEAR) Center

1-800-438-4380 (toll-free) adear@nia.nih.gov www.alzheimers.gov

The National Institute on Aging's ADEAR Center offers information and publications for families, caregivers, and professionals on diagnosis, treatment, patient care, caregiver needs, long-term care, education, training, and research related to Alzheimer's disease and related dementias. Staff members

answer telephone, email, and written requests and make referrals to local and national resources. Visit the ADEAR website to learn more about Alzheimer's and related dementias, find clinical trials, and sign up for email alerts.

Alzheimer's Association

1-800-272-3900 (toll-free) 1-866-403-3073 (TTY/toll-free) info@alz.org www.alz.org

Alzheimer's Foundation of America

1-866-232-8484 (toll-free) info@alzfdn.org www.alzfdn.org



National Institute on Aging
National Institutes of Health
NIH...Turning Discovery Into Health®
U.S. Department of Health and Human Services