FDA-approved treatments for Alzheimer's

Although current medications cannot cure Alzheimer's, two U.S. Food and Drug Administration (FDA)-approved treatments address the underlying biology. Other medications may help lessen symptoms, such as memory loss and confusion.

FDA-approved drugs for Alzheimer's

The FDA has approved medications that fall into two categories: drugs that change disease progression in people living with early Alzheimer's disease, and drugs that may temporarily mitigate some symptoms of Alzheimer's dementia.

When considering any treatment, it is important to have a conversation with a health care professional to determine whether it is appropriate. A clinician who is experienced in using these types of medications should monitor people who are taking them and ensure that the recommended guidelines are strictly observed.

Drugs that change disease progression

Drugs in this category slow disease progression by changing the underlying biology of the disease process. They aim to slow the decline of memory and thinking, as well as function, in people living with Alzheimer's disease.

The treatment landscape is rapidly changing. For the most up-to-date information on FDA-approved treatments for Alzheimer's disease, visit **alz.org/medications**.

Anti-amyloid treatments work by attaching to and removing beta-amyloid, a protein that accumulates into plaques, from the brain. Each works differently and targets beta-amyloid at a different stage of plaque formation.

Aducanumab (Aduhelm®)

Aducanumab (Aduhelm[®]), a n anti-amyloid antibody intravenous (IV) infusion therapy approved for early Alzheimer's disease, including people living with mild cognitive impairment (MCI) or mild dementia due to Alzheimer's disease.

Aducanumab was the first therapy to demonstrate that removing betaamyloid from the brain reduces cognitive and functional decline in people living with early Alzheimer's.

As of January 2024, aducanumab is being discontinued by its manufacturer, Biogen.

Lecanemab (Leqembi®)

Lecanemab (Leqembi[®]) is an anti-amyloid antibody intravenous (IV) infusion therapy approved for early Alzheimer's with confirmation of elevated beta-amyloid.

Lecanemab removes beta-amyloid from the brain and reduces cognitive and functional decline in people living with early Alzheimer's.

- Lecanemab is approved for people with early Alzheimer's disease: mild cognitive impairment (MCI) or mild dementia due to Alzheimer's disease.
- The drug was studied in people living with early Alzheimer's
 disease which includes people with mild cognitive impairment
 (MCI) or mild dementia due to Alzheimer's disease who also have
 evidence of a buildup of amyloid plaques in the brain. There is no
 safety or effectiveness data on initiating treatment at earlier or later
 stages of the disease than were studied.
- Clinical trial participants who received lecanemab experienced reduction in clinical decline observed through measures of cognition and function.
- Examples of cognition measures include:
 - o Memory.
 - o Orientation.
- Examples of functional measures include:
 - Conducting personal finances.
 - Performing household chores such as cleaning.

The most common reported serious side effects were infusion-related reactions and amyloid-related imaging abnormalities (ARIA), a common side effect that does not usually cause symptoms but can be serious. It is typically a temporary swelling in areas of the brain. It usually resolves over time.

Drugs that treat symptoms

Cognitive symptoms (memory and thinking)

As Alzheimer's progresses, brain cells die and connections among cells are lost, causing cognitive symptoms to worsen. While these medications do not stop the damage Alzheimer's causes to brain cells, they may help lessen or stabilize symptoms for a limited time by affecting certain chemicals involved in carrying messages among and between the brain's nerve cells.

The following medications are prescribed to treat symptoms related to memory and thinking.

Cholinesterase inhibitors (Aricept®, Exelon®, Razadyne®)

Cholinesterase (KOH-luh-NES-ter-ays) inhibitors are prescribed to treat symptoms related to memory, thinking, language, judgment and other thought processes. These medications prevent the breakdown of acetylcholine (a-SEA-til-KOHlean), a chemical messenger important for memory and learning. These drugs support communication between nerve cells.

The cholinesterase inhibitors most commonly prescribed are:

- **Donepezil** (**Aricept**®): approved to treat all stages of Alzheimer's disease.
- **Rivastigmine** (**Exelon**[®]): approved for mild-to-moderate Alzheimer's as well as mild-to-moderate dementia associated with Parkinson's disease.
- Galantamine (Razadyne®): approved for mild-to-moderate stages of Alzheimer's disease.

Though generally well-tolerated, if side effects occur, they commonly include nausea, vomiting, loss of appetite and increased frequency of bowel movements.

Glutamate regulators (Namenda®)

Glutamate regulators are prescribed to improve memory, attention, reason, language and the ability to perform simple tasks. This type of drug works by regulating the activity of glutamate, a different chemical messenger that helps the brain process information. This drug is known as:

• **Memantine** (Namenda®): approved for moderate-to-severe Alzheimer's disease.

Can cause side effects, including headache, constipation, confusion and dizziness.

Cholinesterase inhibitor + glutamate regulator (Namzeric®)

This type of drug is a combination of a cholinesterase inhibitor and a glutamate regulator.

• **Donepezil and memantine (Namzaric®)**: approved for moderate-to-severe Alzheimer's disease.

Possible side effects include nausea, vomiting, loss of appetite, increased frequency of bowel movements, headache, constipation, confusion and dizziness.

Noncognitive symptoms (behavioral and psychological symptoms)

Alzheimer's affects more than just memory and thinking. A person's quality of life may be impacted by a variety of behavioral and psychological symptoms that accompany dementia, such as sleep disturbances, agitation, hallucinations and delusions. Some medications focus on treating these noncognitive symptoms for a time, though it is important to try nondrug strategies to manage behaviors before adding medications.

The FDA has approved one drug to address symptoms of insomnia that has been tested in people living with dementia and one that treats agitation.

Orexin receptor antagonist (Belsomra®)

Prescribed to treat insomnia, this drug inhibits the activity of orexin, a type of neurotransmitter involved in the sleep-wake cycle:

• **Suvorexant** (**Belsomra**[®]): approved for treatment of insomnia and has been shown in clinical trials to be effective for people living with mild to moderate Alzheimer's disease.

Possible side effects include, but are not limited to: risk of impaired alertness and motor coordination (including impaired driving), worsening of depression or suicidal thinking, complex sleep behaviors (such as sleep-walking and sleep-driving), sleep paralysis and compromised respiratory function.

Atypical antipsychotics

Atypical antipsychotics are a group of antipsychotic drugs that target the serotonin and dopamine chemical pathways in the brain. These drugs are largely used to treat schizophrenia and bipolar disorder and as add-on therapies for major depressive disorder. The FDA requires that all atypical antipsychotics carry a safety warning that the medication has been associated with an increased risk of death in older patients with dementia-related psychosis.

Many atypical antipsychotic medications are used "off-label" to treat dementia-related behaviors, and there is currently only one FDA-approved atypical antipsychotic to treat agitation associated with dementia due to Alzheimer's. It is important to try nondrug strategies to manage noncognitive symptoms — like agitation — before adding medications.

• **Brexpiprazole** (**Rexulti**[®]): approved for the treatment of agitation associated with dementia due to Alzheimer's disease.

Possible side effects include, but are not limited to: weight gain, sleepiness, dizziness, common cold symptoms, and restlessness or feeling like you need to move. Warning for serious side effects: increased risk of death in older adults with dementia-related psychosis. Rexulti is not approved for the treatment of people with dementia-related psychosis without agitation that may happen with dementia due to Alzheimer's disease.

Participate in clinical studies

Scientists have made remarkable progress in understanding how Alzheimer's disease affects the brain.

Ultimately, the path to effective therapies is through clinical studies. Learn more about Alzheimer's Association TrialMatch®, a free clinical studies matching service, and how you can participate in vital Alzheimer's disease research. Recruiting and retaining trial participants is now the greatest obstacle, other than funding, to developing the next generation of Alzheimer's treatments. Individuals living with dementia, caregivers and healthy volunteers are all needed to participate in clinical studies focused on Alzheimer's and other dementias.

Treatments at a glance

Changes disease progression

Name	Indicated for for	Common side effects
(Generic/Brand)		
Lecanemab	Alzheimer's disease	Infusion-related
Leqembi [®]	(MCI or mild dementia)	reactions, ARIA and
		headache

Treats cognitive symptoms (memory and thinking)

Name	Approved for	Common side effects
(Generic/Brand)		
Donepezil	Mild to severe dementia	Nausea, vomiting, loss of
Aricept [®]	due to Alzheimer's	appetite, muscle cramps
		and increased frequency
		of bowel movements.
Galantamine	Mild to moderate	Nausea, vomiting, loss of
Razadyne®	dementia due to	appetite and increased
	Alzheimer's	frequency of bowel
		movements.
Rivastigmine	Mild to moderate	Nausea, vomiting, loss of
Exelon®	dementia due to	appetite and increased
	Alzheimer's or	frequency of bowel
	Parkinson's	movements.
Memantine	Moderate to severe	Headache, constipation,
Namenda [®]	dementia due to	confusion and dizziness.
	Alzheimer's	
Memantine + Donepezil	Moderate to severe	Nausea, vomiting, loss of
Namzaric [®]	dementia due to	appetite, increased
	Alzheimer's	frequency of bowel
		movements, headache,
		constipation, confusion
		and dizziness.

Treats noncognitive symptoms (behavioral and psychological)

Name	Approved for	Common side effects
(Generic/Brand)		
Brexpiprazole Rexulti®	Agitation associated with	Weight gain, sleepiness,
	dementia due to	dizziness, common cold
	Alzheimer's disease	symptoms, and
		restlessness or feeling
		like you need to move.



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		Warning for serious side
		effects: increased risk of
		death in older adults with
		dementia-related
		psychosis. Rexulti is not
		approved for the
		treatment of people with
		dementia-related
		psychosis without
		agitation that may happen
		with dementia due to
		Alzheimer's disease.
Suvorexant	Insomnia, has been	Impaired alertness and
Belsomra®	shown to be effective in	motor coordination,
	people living with mild to	worsening of depression
	moderate Alzheimer's	or suicidal thinking,
	disease	complex sleep behaviors,
		sleep paralysis,
		compromised respiratory
		function.

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