

ALZHEIMER'S DISEASE

Alzheimer's disease is the most common form of dementia accounting for about two-thirds of all cases. This Help Sheet describes the symptoms of Alzheimer's disease as well as its causes, progression and treatment.

What is Alzheimer's disease?

Alzheimer's disease is a physical condition which attacks the brain affecting memory, thinking and behaviour. It is named after Alois Alzheimer, the German doctor who, in 1907, first described it.

In Alzheimer's disease, abnormal material builds up as 'tangles' or twisted fibres in the centre of the brain cells and 'plaques' or hard bits of protein material outside the brain cells. These disrupt messages inside the brain and damage connections between brain cells. The brain cells eventually die and this means that information cannot be remembered. As Alzheimer's disease affects each area of the brain, certain functions or abilities are lost. Memory of recent events is often the first to be affected, but as the disease progresses, long-term memory is also lost. The disease also affects many of the brain's other functions and this means other types of thinking and behaviour are affected. Once an ability is lost it can rarely be regained or relearned.

Who gets Alzheimer's disease?

Alzheimer's disease can affect adults at any age, but usually occurs after age 65. The likelihood of getting dementia rises with age. For females aged 65 to 69 years dementia affects 1 person in 80 compared to 1 person in 60 for males. For both males and females aged 85 and over the rate is approximately 1 person in 4.

Some people with Alzheimer's have a family history of the disease, but most do not. It is possible that some people may inherit a greater or lesser likelihood than others to develop the disease later in life. One gene, carried by 25% of the Australian population, is known to be associated with a slightly increased risk of late onset Alzheimer's disease. Even so, half the people who carry that gene who live to be 85 do not have Alzheimer's disease at that age. There are other risk factor genes and environmental factors that might make Alzheimer's disease more or less likely. Risk factors for developing the condition include a

history of a severe head injury in earlier life, and having diabetes, high cholesterol or high blood pressure.

Studies are currently being done but early results show that it may be more likely in Aboriginal people and possibly at an earlier age. Studies show that Aboriginal people are more likely to develop Alzheimer's disease than non-Aboriginal Australians. This is thought to be due to lifestyle and environment factors such as poor diet and lack of access to education.

Familial Alzheimer's disease is a less common form in which the disease is passed directly from one generation to another. If a parent has a mutated gene, each child will have a 50% chance of inheriting it. The presence of the gene means that the person will eventually develop Alzheimer's disease, usually in their 40s or 50s. This type of Alzheimer's disease affects a very small number of people in Australia.

What are the symptoms?

In the early stages, the symptoms of Alzheimer's disease can be very hard to see. However, it often begins with lapses in memory and difficulty in finding the right words for everyday objects.

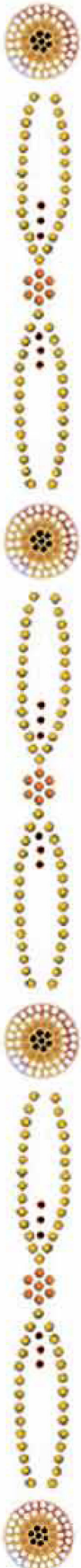
Other symptoms may include:

- Persistent and frequent memory difficulties, especially of recent events
- Vagueness or hard to follow in everyday conversation
- Not wanting to do things that used to be enjoyed
- Taking longer to do every day jobs
- Forgetting well-known people or places
- Not able to understand questions and instructions
- Deterioration of social skills
- Emotional unpredictability or 'mood swings'

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This help sheet is funded by the Australian Government under the National Dementia Support Program



Symptoms vary and the disease progresses at a different pace according to the individual and the areas of the brain affected. A person's abilities may change for the better or the worse from day-to-day, or even within the one day, and can become worse in times of stress, fatigue or ill-health. However, there is always deterioration over time. Alzheimer's disease is progressive and degenerative, and is currently irreversible. In other words it will continue to get worse and cannot be cured.

What causes Alzheimer's disease?

Researchers are rapidly learning more about the chemical changes that damage brain cells in Alzheimer's disease, but apart from the few people with Familial Alzheimer's disease, it is not known why certain people get Alzheimer's disease and others do not. A variety of suspected causes are being investigated, including factors in the environment, biochemical (chemicals inside the body) disturbances and immune processes. The cause may vary from person to person and may be due to one factor or a number of factors.

How is Alzheimer's disease diagnosed?

Currently there is no single test to identify Alzheimer's disease. The diagnosis is made after careful clinical consultation. The clinical diagnosis might include a detailed medical history, a complete check-up of the body and brain, tests of intellectual function (ability to think), a psychiatric assessment to check for any mental illness, and perhaps blood and urine tests.

These tests will help to eliminate other conditions with similar symptoms such as poor diet or depression. After eliminating other causes, a clinical diagnosis of Alzheimer's disease can be made with about 80% to 90% accuracy. The diagnosis can only be confirmed after death by examination of the brain tissue.

It is important to have an early and accurate diagnosis to find out whether the condition is caused by Alzheimer's disease or whether a different condition requiring its own specific treatment is causing the symptoms.

How does Alzheimer's disease progress?

How fast Alzheimer's gets worse is different from person to person. However the disease does lead eventually to complete dependence and finally death. A person may live from three to twenty years with Alzheimer's disease, with the average being seven to ten years.

Is there treatment available?

At present there is no cure for Alzheimer's disease. However, some drugs appear to help people with Alzheimer's disease think more clearly for longer. Drugs may also be prescribed for other symptoms such as restlessness or depression, or to help a person with Alzheimer's disease sleep better. Non-drug therapies, such as music therapy or exercise, can also help people with Alzheimer's disease.

Support is available for the person with Alzheimer's disease, their families and carers. This support can make a positive difference to managing the condition. Alzheimer's Australia provides support, information, education and counselling for people affected by dementia. Up to date information about drug and non-drug treatments is also available from Alzheimer's Australia.



home and community care

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FURTHER INFORMATION

Alzheimer's Australia offers support, information, education and counselling. Contact the National Dementia Helpline on **1800 100 500**, or visit our website at **fightdementia.org.au**



For language assistance phone the Translating and Interpreting Service on **131 450**