



# Memory in Decline: Understanding Alzheimer's Disease and Its Human Impact

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## DESCRIPTION

Alzheimer's disease is a progressive condition that affects the brain, leading to a steady decline in memory, thinking ability and behavior. It is one of the most common causes of dementia, particularly among older adults, though it is not a normal part of aging. The condition develops slowly, often beginning with mild forgetfulness and gradually advancing to more serious cognitive impairment that interferes with daily life. Over time, individuals may lose the ability to communicate effectively, recognize loved ones or carry out basic tasks. The early phase of Alzheimer's disease is often subtle, making it difficult to distinguish from typical age-related memory changes. People may forget recent conversations, misplace items or struggle to find the right words during communication. As the condition progresses, these symptoms become more pronounced. Individuals may repeat questions, become confused about time or place and have difficulty making decisions. Behavioral and emotional changes are also common, including irritability, anxiety and withdrawal from social activities.

The biological basis of Alzheimer's disease involves changes within the brain that disrupt normal cell function. Abnormal protein deposits form plaques and tangles that interfere with communication between nerve cells. As these disruptions increase, brain cells begin to die, leading to shrinkage of certain brain regions. This loss of brain tissue directly affects memory and cognitive abilities. Although the exact cause of these changes is not fully understood, a combination of genetic, environmental and lifestyle factors is believed to contribute. Age remains the strongest risk factor for Alzheimer's disease. Most individuals diagnosed are over the age of sixty-five, although early-onset forms can occur in younger individuals. Family history may increase risk, especially when close relatives have been affected. Other factors such as cardiovascular health, education level and lifestyle habits also play a role. Conditions like high blood pressure, diabetes and obesity may increase the likelihood of developing cognitive decline later in life. Healthcare professionals assess memory, problem-solving skills and language ability to determine the extent of impairment. Brain imaging

techniques help identify structural changes or rule out other possible causes of symptoms. Early diagnosis is valuable because it allows individuals and families to plan for the future and begin supportive care at an earlier stage.

There is currently no complete cure for Alzheimer's disease, but several treatments can help manage symptoms and improve quality of life. Medications may be prescribed to enhance communication between brain cells or regulate certain chemicals involved in memory and thinking. While these treatments do not stop the progression of the disease, they can provide temporary improvement or stabilization in some individuals. Non-medical approaches are equally important in managing Alzheimer's disease. Structured routines, memory aids and a calm environment can help reduce confusion and anxiety. Activities that engage the mind, such as reading, puzzles or conversation, may support cognitive function. Physical activity also contributes to overall well-being, improving mood and circulation. Nutrition plays a supportive role, with balanced meals helping maintain energy levels and general health. Caregiving is a significant aspect of Alzheimer's disease management. As the condition progresses, individuals require increasing levels of assistance with daily activities such as dressing, eating and personal hygiene. Caregivers, often family members, may experience emotional and physical strain. Support networks, respite care and counseling services are essential in helping caregivers cope with these demands. Education about the disease enables caregivers to respond more effectively to behavioral changes and communication difficulties.

## CONCLUSION

Alzheimer's disease affects not only individuals but also families and communities. Its impact extends beyond memory loss, influencing emotional well-being, independence and social relationships. Understanding the condition helps reduce stigma and encourages early medical attention. With appropriate care, support and awareness, individuals living with Alzheimer's disease can experience comfort and dignity throughout the course of the illness.

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