



Biomarkers

A New Frontier in Alzheimer's Detection, Diagnosis and Research

Cerebrospinal fluid (CSF) analysis can use to detect amyloid in the CSF (taken by a lumbar puncture), which can be predictive of changes in the brain.

There are several emerging **blood tests** on the market that can indicate presence of Alzheimer's markers years before symptoms emerge.

Blood tests for Alzheimer's should be prescribed by a doctor and followed by other methods of diagnosis.



Fluid

O

Emerging markers

Positron emission tomography (PET) scan results aid doctors in diagnosing and treating memory conditions. There are FDA approved PET scans that measure amyloid and tau.

Magnetic Resonance Imaging (MRI) can help doctors rule out other symptoms that may be causing dementia symptoms, as well as track treatment side effects.



- · examining skin and saliva to indicate early biological changes in the brain
 • retinal imaging

which show promise to be low cost, accessible detection methods for Alzheimer's.

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Research Roundup

Identifying New

In addition to amyloid and . tau — two key hallmarks in Alzheimer's disease researchers are exploring emerging markers of cell death, inflammation and

vascular related changes.

Standardizing Biomarkers

Alzheimer's Association leads the Global Biomarker Standardization Consortium (GBSC), which conducts studies that aim to standardize use of fluid biomarkers across

populations.

Bringing New Tests to Doctors' Offices

As new biomarkers reach doctor's offices, the Alzheimer's Association publishes recommendations and guidance for doctors for use of imaging, fluid and other diagnostic biomarkers for Alzheimer's disease.

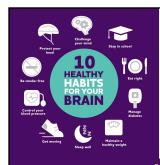
These programs provide a strategy to determine the most valuable tests that can be used to detect, diagnose and inform treatment for individuals with Alzheimer's and other dementia.

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Reducing Risk of Dementia

- Positive, everyday actions can make a difference in brain health, even lowering the risk of cognitive decline and possibly Alzheimer's and dementia.
- Up to 40% of dementia cases could be prevented or delayed by targeting modifiable risk factors.
- Research suggests **combining multiple healthy factors** may be the most impactful.
- Nonmodifiable risk factors include age, genetics and sex/ gender/ race/ ethnicity.

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WHAT: Two-year clinical trial across the U.S. RESULTS EXPECTED, SUMMER 2025

HOW: Study intervention simultaneously targets multiple risk factors with a goal to protect cognitive function in older adults at increased risk for cognitive decline.

Results from this trial will inform the development of accessible and sustainable community-based programs for dementia prevention.



WHAT: Global network of lifestyle intervention trials that share experiences, data and joint initiatives to prevent cognitive impairment & dementia worldwide

HOW: World-Wide FINGERS network now includes research teams in 62 countries





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Alzheimer's Research Funding is at an All-Time High

7x
\$3.8B
Increase Since the Passage of the Annually Alzheimer's Accountability Act

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Get Involved in Research

- TrialMatch is a free clinical studies matching service designed to provide a customized list of potential study matches to each user.
- Healthy and cognitively impaired people from all backgrounds are needed to participate in Alzheimer's and dementia research.





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Advancing Health Equity Racial and ethnic populations are underrepresented in clinical trials. % of clinical trial participants % of U.S. population 1% Hispanic participants

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Legislation like the bipartisan Equity in Neuroscience and Alzheimer's Clinical Trials (ENACT) Act will increase education and outreach to underserved and underrepresented communities, encourage diversity of clinical trial staff, and make it easier for underrepresented groups to participate in research. The Alzheimer's Association is committed to diversity, equity and inclusion in Alzheimer's research by supporting researchers from diverse backgrounds. Alzheimer's Association Core Grant Programs to Promote Diversity
 ISTAART Diversity and Disparities PIA
 AAIC Advancements: Health Equity



