

# Enrollment of Older Adults in Dementia Clinical Trials

*Phases · Enrollment Challenges & Successes · Resources for Cognitive Changes*

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# Agenda

- 01** Dementia Impact
- 02** Why Clinical Trials Matter
- 03** The Reality of Time
- 04** The Representation Gap
- 05** Enrollment Challenges
- 06** Benefits of Trial Participation
- 07** Clinical Trial Basics
- 08** Successes and Promising Strategies
- 09** Resources and Support: How you can help

# The Growing Impact of Dementia

*Current and future concerns*

# What is Dementia?

DSM-5 criteria - “Major neurocognitive disorder”

Evidence from history and assessment of decline in at least one cognitive domain:

- Learning and memory
- Language
- Executive function
- Complex attention
- Visual perception
- Social cognition

Must represent a decline from previous level of function

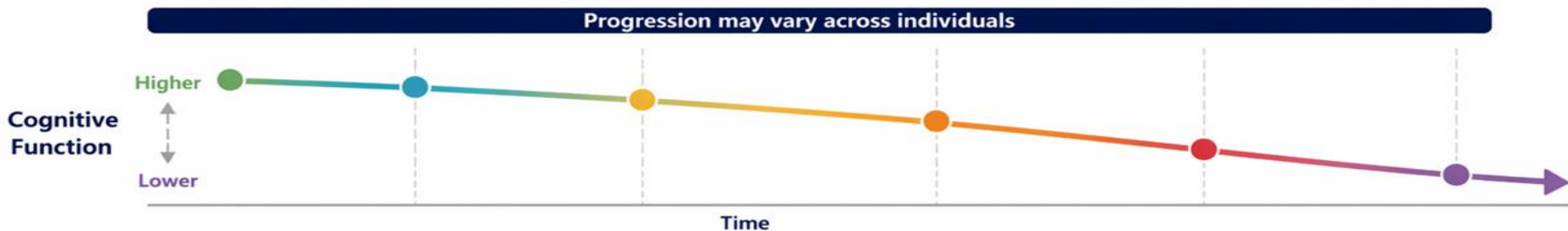
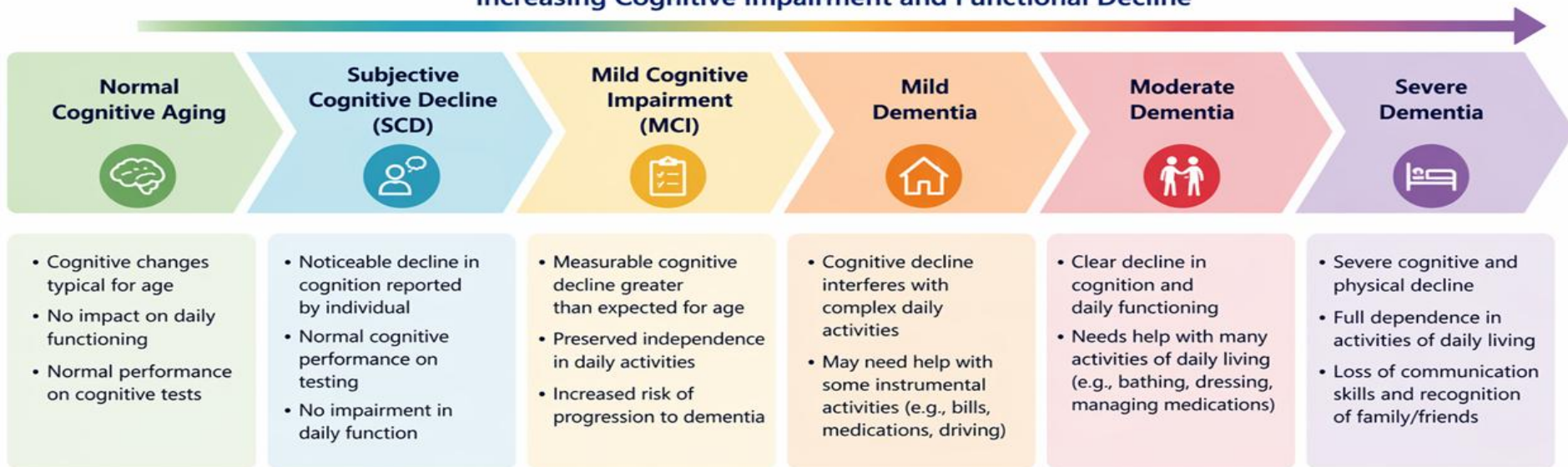
Must interfere with ADLs/iADLs

Progressive, irreversible loss of cognition and function

# Spectrum of Cognitive Change to Dementia

*A continuum from normal cognitive function to severe dementia*

Increasing Cognitive Impairment and Functional Decline



# Clinical Characteristics of Common Dementias

## Alzheimer's Disease

- Gradual onset
- Memory loss (early)
- Language & executive decline
- Most common (60–80%)

## Lewy Body Dementia

- Fluctuating cognition
- Visual hallucinations
- Parkinsonism
- Medication sensitivity

## Frontotemporal Dementia

- Early onset (<65)
- Behavior/personality changes
- Language variants
- Memory preserved early

## Vascular Dementia

- Stepwise decline
- Executive dysfunction
- Slowed processing
- Vascular history

# 2026 ALZHEIMER'S DISEASE FACTS AND FIGURES



OVER  
**7 MILLION**  
Americans are living  
with Alzheimer's

NEARLY  
**13 MILLION**

Americans provide  
unpaid care for people  
with Alzheimer's or  
other dementias



In 2026, Alzheimer's  
and other dementias  
will cost the nation  
**\$409  
BILLION**

By 2050,  
these costs  
could rise  
to nearly

**\$1 TRILLION**



**1 in 3**

older adults dies with  
Alzheimer's or another  
dementia

It kills more than  
breast cancer and  
prostate cancer



**COMBINED**

# Why Clinical Trials Matter

*The foundation of evidence-based medicine*

# Why Clinical Trials Matter

- 80-90% of medical treatments today were developed through validated clinical trials
- Major medical breakthroughs have been made possible through clinical trials
- Clinical trials are required before FDA approval to ensure safety and efficacy
- Improve standards of care
- Support personalized medicine, precision therapeutics, earlier disease detection

# The Reality of Time

*When innovation moves slower than disease*

# Why Clinical Trials Matter

**400,000+**

Active clinical trials globally

*ClinicalTrials.gov 2024*

**<5% of  
eligible  
enroll**

*NCI Enrollment Data*

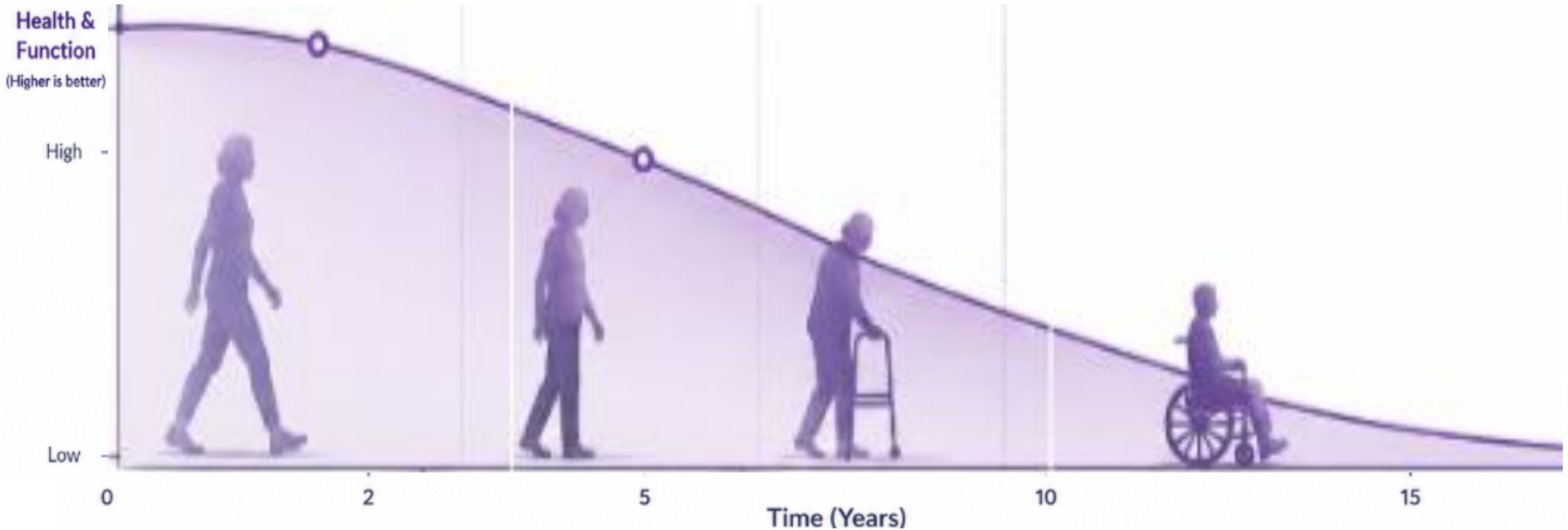
**10-15 years  
for FDA  
approval**

*FDA Drug Development*

# Timeline Reality

**The Patient Journey**  
Aging and Progressive Disease

**The Drug Development Journey**  
10–15 Year Approval Timeline



# The Representation Gap

*Enrollment gaps*

# Older Adults in Clinical Trials

**65+**

**Age group most  
likely to use  
medications**

*CDC Medication Use Data*

**<25%**

**Clinical trial  
participants who  
are 65+**

*JAMA Internal Medicine*

**50%**

**Trials that exclude  
adults  
with comorbidities**

*FDA Demographic Analysis*

# Key Differences in Dementia Enrollment and Retention

Metric	Dementia / Alzheimer's trials	Many non-dementia trials
Screen → enroll conversion	<b>~10–20% (often lower in practice)</b>	<b>~25–60% (varies widely)</b>
Eligible → randomized	Often <b>~10–15% effective yield</b>	Often <b>~30–70%</b>
Participants lost due to eligibility	High (~70–90% of screened excluded or declined)	Moderate (~30–60%)
Driver of loss	Cognitive impairment, caregiver burden, strict criteria	Mostly medical eligibility or preference

# Enrollment Challenges

*Structural, systemic, and individual barriers*

# Barriers to Enrollment

## Structural Barriers

- Restrictive eligibility criteria (age cut-offs, comorbidity exclusions)
- Trial locations that require frequent travel
- Lack of transportation assistance
- No caregiver accommodation policies
- Complex procedures
- Technology barriers for remote participation

## Individual & Social Barriers

- Fear of receiving a placebo or experimental treatment
- Concerns about side effects and existing health conditions
- Distrust of medical institutions (especially in communities of color)
- Low trial awareness among patients and providers
- Fixed incomes and inability to take time off work / caregiving

# Additional Barriers for Caregivers

Caregiver burden is often overlooked in study design

- Participation often depends on a caregiver to attend visits, manage schedules, monitor symptoms
- Caregivers may already be overwhelmed
- Time off work, stress, and logistics can discourage involvement

# Ethical Considerations

## Decisional Capacity and Consent:

- Need for a legally authorized representative (LAR), DPOA, or study partner may limit eligibility

## Autonomy vs Protection

- Support inclusion while minimizing risk and weighing risk-benefit

## Equity and Justice

- Ethical trial design requires equitable access, research populations should reflect patients most affected by disease

Key Principle: protecting vulnerable populations should not mean excluding them from scientific progress

# Benefits of Participation

*Quality of Life and Outcomes*

# Benefits to Study Participation

## Care Quality & Monitoring

- Participants receive **2–4x more clinical assessments per year** than standard care
- May get something that helps them
- Trials may include regular lab testing, physical assessments, medication review
- Earlier detection of complications or comorbidities improves clinical management in up to **25% of cases**

## Quality of Life

- **~80% of participants** report a sense of purpose or meaning from participation
- Quality of life scores improve by **~20–25%** in some supportive-care trials

# Benefits to Study Participation



## Caregiver Outcomes

- **64% of caregivers** report improved understanding of the disease through trial participation
- **30–40% reduction in caregiver burden** after 6–12 months (in structured-support trials)
- Access to education, training, and support services improves caregiver confidence by **~40%**

# Perspectives

## Participant perspectives:

- “I wanted to do something that might help others in the future, even if it doesn’t help me.”
- “It gives me a sense that something is being done instead of just waiting.”
- “Being in the study makes me feel like I’m still contributing.”
- “They treat me like a person, not just a diagnosis.”
- “Even if the medicine doesn’t work, the attention and monitoring are worth it.”
- “I like having somewhere to go where people understand what I’m going through.”

## Caregiver perspectives:

- “It connects us to experts who understand the disease.”
- “We feel less alone managing this.”
- “It helps us plan for what’s coming.”
- “Even small slowing of decline matters to our family.”

# Clinical Trial Basics

*Safety → Efficacy → Confirmation → Surveillance*

# Defining Clinical Trials

- A research study conducted with human volunteers to answer specific health questions
- Test safety and efficacy
- Follow strict scientific standards overseen by regulatory agencies (FDA, IRB, Ethics Committees)
- Types of clinical trials include:
  - Treatment
  - Prevention
  - Screening
  - Diagnostic
  - Behavioral
  - Quality of Life

# PHASES OF A CLINICAL TRIAL

0

## PRE-CLINICAL

Lab – based research to tell if a treatment is useful and safe



1

## SAFETY

10 – 80 participants to assess effect of treatment in humans



2

## SAFETY & DOSING

100 - 300 participants to evaluate safety & effective dose of treatment



3

## SAFETY & EFFICACY

300 - 3000 participants to confirm benefit and safety of the treatment



4

## POST-APPROVAL

Post-approval surveillance to evaluate long - term effects of treatment



# Active NIA AD/ADRD Clinical Trials



## Dementia Care and Caregiving

**203**  
TRIALS

### Type



Clinical Trial Enrollment (Chapman), NW GWEC Spring 2026



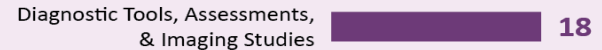
## Understanding Disease Processes

**32**  
TRIALS



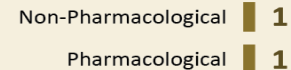
## Diagnostic Tools, Assessments, & Imaging Studies

**18**  
TRIALS



## Treatments for Neuropsychiatric Symptoms

**2**  
TRIALS



## Total Number of Trials

**466**

For more information please visit  
[www.nia.nih.gov/research/ongoing-AD-trials](http://www.nia.nih.gov/research/ongoing-AD-trials)



Data last updated: March 2025

# Active NIA AD/ADRD Clinical Trials



Pharmacological

63  
TRIALS



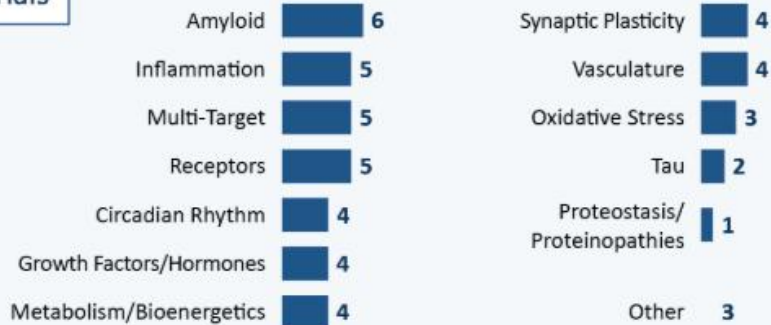
Non-Pharmacological

148  
TRIALS

50  
trials

## Phase I & Phase II

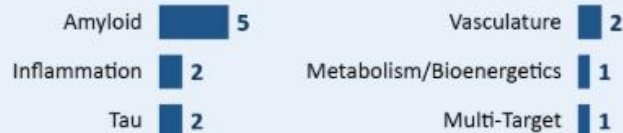
### Targeted Disease Process



13  
trials

## Phase II/III, III, and IV

### Targeted Disease Process



## Modality



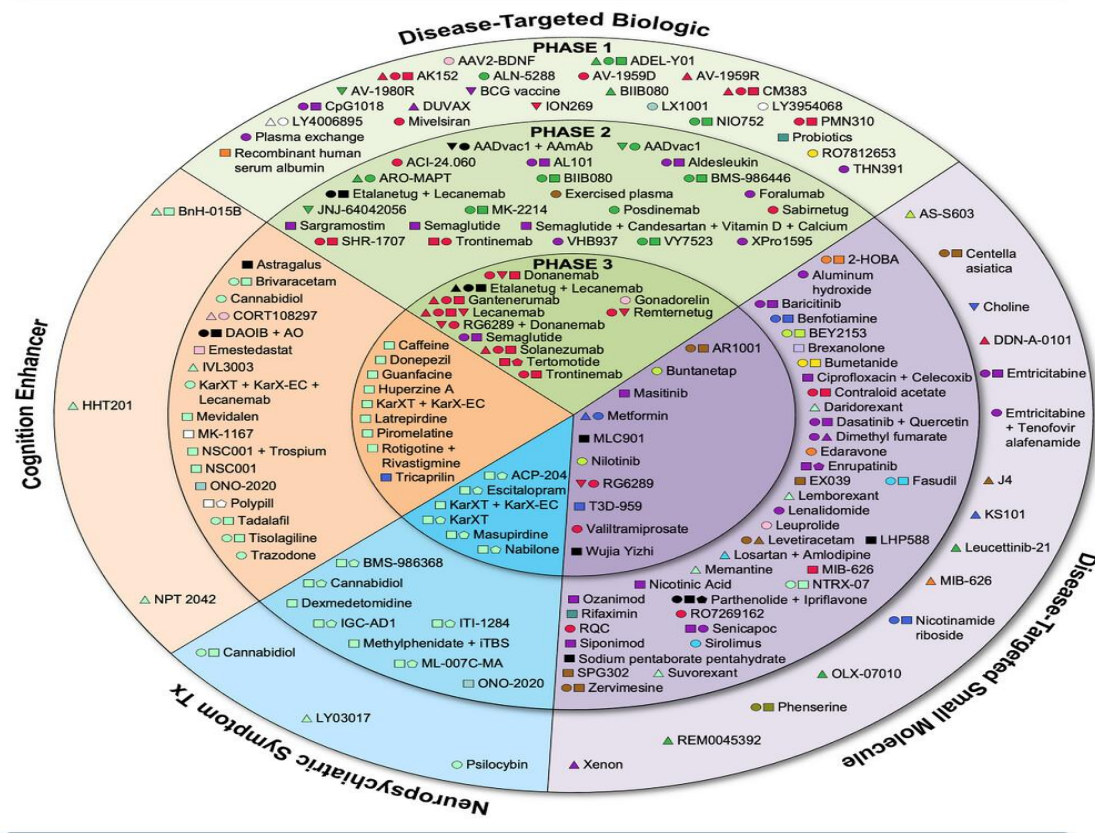
For more information please visit  
[www.nia.nih.gov/research/ongoing-AD-trials](http://www.nia.nih.gov/research/ongoing-AD-trials)



Data last updated: March 2025

### Disease-Targeted Biologic

- |  |                                |                                       |
|--|--------------------------------|---------------------------------------|
| ■ Amyloid                                | ■ Oxidative Stress             | ■ Synaptic Plasticity/Neuroprotection |
| ■ Tau                                    | ■ Cell Death                   | ■ Gut-Brain Axis                      |
| ■ APOE, Lipids and Lipoprotein Receptors | ■ Proteostasis/Proteinopathies | ■ Circadian Rhythm                    |
| ■ Neurotransmitter Receptors             | ■ Metabolism and Bioenergetics | ■ Epigenetic Regulators               |
| ■ Neurogenesis                           | ■ Vasculature                  | ■ Multi-Target                        |
| ■ Inflammation                           | ■ Growth Factors and Hormones  | ■ Undisclosed                         |



- ### Trial Population
- |                             |  |                      |
|-----------------------------|--|----------------------|
| ▲ Healthy Volunteers        | ● MCI (Prodromal) and MCI-Mild AD Dementia | ◆ Severe AD Dementia |
| ■ Mild-Moderate AD Dementia |  |                      |

# The Progress and Future of Dementia Trials

*Past and future*

# The Evolution of Alzheimer's Diagnosis and Treatment

## Diagnostic Progress

- Advances in brain imaging – CT and MRI, PET scans for amyloid and Tau tracers
- CSF biomarkers: amyloid- $\beta$ , tau proteins
- Emerging plasma biomarkers (p-tau217)
- Genetic Insights: APOE- $\epsilon$ 4 allele as a major risk factor, dominantly inherited genes: APP, PSEN1, PSEN2

## Early Symptomatic Treatments

- Cholinesterase inhibitors: donepezil, rivastigmine, galantamine
- NMDA receptor antagonist: memantine

## Shift Toward Disease-Modifying Therapies

- Immunotherapies targeting amyloid, recent approvals: lecanemab, donanemab

# Successes & Promising Strategies

*What is working — and what we can build on*

# Evidence-Based Enrollment Strategies

## Build Trust

- Partner with community organizations, senior centers, faith groups
- Use trusted messengers (primary care, community leaders)
- Train clinicians to introduce trials as part of standard of care
- Maintain ongoing presence of support
- Be transparent about benefits and risks
- Engage study partners early in the process
- Regular updates and return of results



# Evidence-Based Enrollment Strategies

## Reduce Burden

- Simplify visit schedules and reduce frequency/duration
- Flexible scheduling
- Utilize home-based visits, hybrid models
- Leverage technology thoughtfully
- Provide transportation or reimburse travel costs
- Minimize invasive procedures when possible
- Include caregiver support



# Evidence-Based Enrollment Strategies

## Protocol Design

- Broaden inclusion criteria (allow comorbidities, polypharmacy)
- Plain-language, shorter consent forms, use of LAR
- Reconsent periodically as cognition changes
- Incorporate visual aids, teach-back methods
- Cultural and linguistic adaptation of materials
- Trained staff on trial team

## Summary of Visit Activities

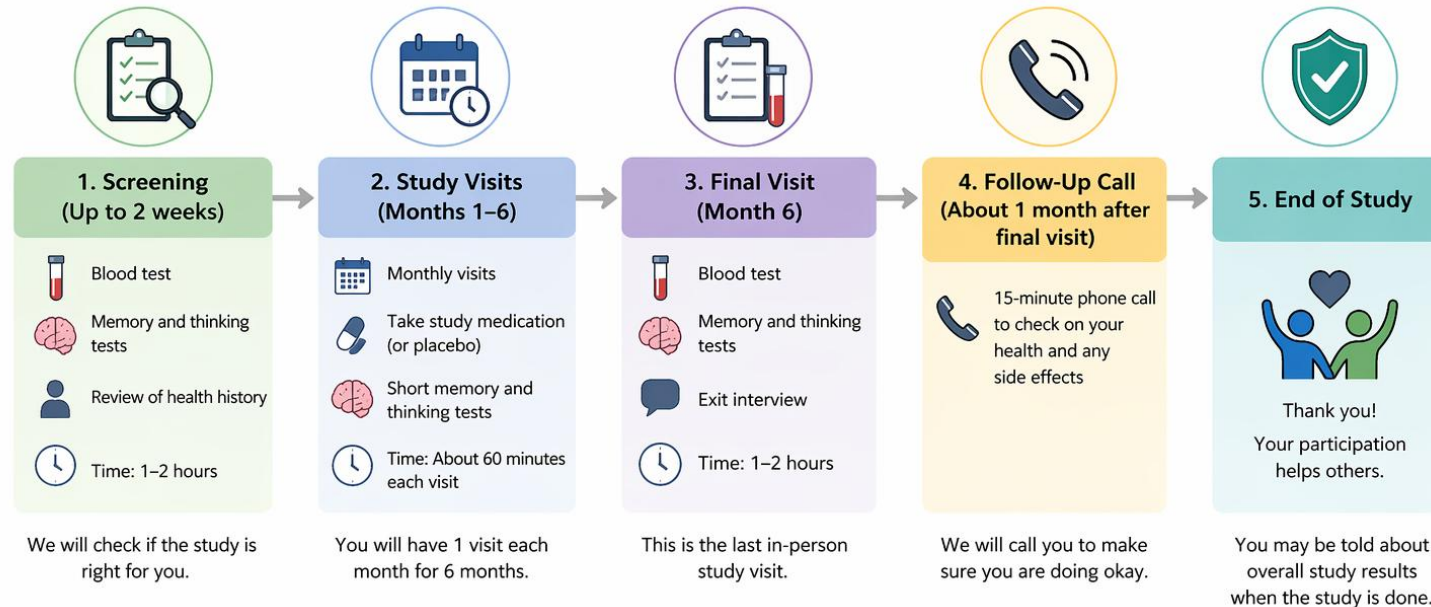
The following chart summarizes the activities that will occur during the study. Study staff will work with you to schedule your visits. Visit activities can be scheduled across multiple days.






Visit Number	6	8	10	12	18	24	30	36	42	48	54	57	60	63	66	69	72	75	78	81	84		85	
Week Elapsed Since 1 <sup>st</sup> Dose	0	4	8	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	ET	228	
Study drug infusion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Medication History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Adverse events collection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vital signs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Physical and neurological exam	X			X	X	X	X		X		X		X		X		X		X		X	X	X	
ECG	X			X	X	X	X		X		X		X		X		X		X		X	X	X	
Assessment of Well Being	X			X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	
Memory & Thinking Skills Tests	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Answer Questionnaires				X			X				X				X							X	X	
MRI			X	X	X	X	X		X		X		X		X		X		X		X	X	X	
Amyloid PET Scan											X											X	X	
Tau PET Scan											X											X	X	
LP* (if participating in the CSF sub-study)											X											X	X	
Urine pregnancy test (for females of childbearing potential)	X				X		X		X		X		X		X		X		X		X	X	X	
Blood and urine collected	X	X		X	X	X	X	X	X	X	X		X		X		X		X		X	X	X	
Blood Volume Approx. Totals (mLs)	60	50		50	50	25	50	25	25	25	80*		40		30		40		30		70*	30	30	


\*Fasted, when possible; ET = early termination visit

# What will happen if I take part in this study?

The study lasts about 6 months. Here is what you can expect:



 <p><b>Time Commitment</b> About 6 study visits over 6 months.</p> 	 <p><b>Travel Support</b> We will reimburse your travel or provide rides if needed.</p>	 <p><b>Your Choice</b> Taking part is your choice. You may stop at any time for any reason.</p>	 <p><b>Caregiver Involvement</b> A family member or friend can join you for visits and calls, if you wish.</p>
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 **Please ask questions.** We want to make sure you understand everything.

# Regulatory & Policy Progress

- FDA Guidance on Geriatric Studies (updated 2019): mandates age reporting in drug applications
- NIH Policy on Inclusion Across the Lifespan (2017): requires plans to include older adults or justify exclusion
- FDA's Project Equity: initiative to increase diversity and older adult inclusion in clinical trials
- NIA's Recruitment Innovation Center (RIC): provides trial sites with outreach and retention tools
- Acceptance of LAR and revisions to the Common Rule



# What You Can Do

*Tools, organizations, and next steps*

# Supporting Enrollment

- Routinely screen for cognitive impairment
- Refer to specialty medicine when appropriate
- Maintain awareness of local and national resources
- Start conversations early — before significant decline — about research values and preferences
- Understand the LAR role, appointed DPOA, involve caregivers
- Advance directives can include preferences about research participation
- Normalize clinical trials as a standard care option
- Proactively refer patients; most never self-identify as trial candidates

# National Resources for Trial Participation

## ClinicalTrials.gov

National database of all U.S. clinical trials. Search by condition, location, age.

## Alzheimer's Association

TrialMatch® — free service matching individuals with cognitive changes to trials. [www.alz.org](http://www.alz.org)

## Alzheimer's Disease Research Centers (ADRCs)

NIH-funded centers at major universities/hospitals  
<https://depts.washington.edu/mbwc/adrc>

## NIA Alzheimer's Trial Resources

NIA resources & trial matching for older adults.  
[www.alzheimers.gov/clinical-trials/find-clinical-trials](http://www.alzheimers.gov/clinical-trials/find-clinical-trials)

## Brain Health Registry

UCSF registry connecting adults 18+ with cognitive change research. [www.brainhealthregistry.org](http://www.brainhealthregistry.org)

## Alzheimer's Clinical Trials Consortium (ACTC)

A coordinated national trial network.  
<https://www.actcinfo.org>

# Navigating ClinicalTrials.gov

- Go to: ClinicalTrials.gov and click 'Find a Study'
- Search and filter tips for older adults:
  - Enter condition (e.g., 'Alzheimer's disease', 'mild cognitive impairment')
  - Filter by 'Age Group': Older Adult (65+)
  - Enter your ZIP code and select distance radius (50–100 miles)
- Look for studies labeled 'Observational' if concerned about intervention risks
- Check 'Eligibility' section carefully — call the study coordinator with questions
- <https://clinicaltrials.gov/>

The screenshot displays the 'Focus Your Search' section of the ClinicalTrials.gov website. It includes several filter categories:

- Condition/disease**: A text input field containing 'Alzheimers Disease'.
- Other terms**: An empty text input field.
- Intervention/treatment**: An empty text input field.
- Location**: A text input field containing 'Seattle, WA 98104'. Below the field, it says 'Location selected'. A link is provided: 'Search by address, city, state, zip code, or country. For information on using this field, see the [How to Search for Clinical Studies](#) page'.
- Set Radius**: A slider control showing a range from 1 mi to 500 mi. The current selection is 50 miles.
- Study Status**: Two radio button options: 'All studies' (selected) and 'Recruiting and not yet recruiting studies'.

At the bottom of the search area, there is a 'More Filters' link and a '[No Title]' button.

# A Study of the Safety and Efficacy of Memantine in Moderate to Severe Alzheimer's Disease

ClinicalTrials.gov ID ⓘ NCT00322153

Sponsor ⓘ Forest Laboratories

Information provided by ⓘ Forest Laboratories

Last Update Posted ⓘ 2010-09-16

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Expand all content

Collapse all content

## Study Details

## Researcher View

## Results Posted

## Record History

### On this page

#### Study Overview

[Contacts and Locations](#)

[Participation Criteria](#)

[Study Plan](#)

[Collaborators and Investigators](#)

[Publications](#)

[Study Record Dates](#)

[More Information](#)

## Study Overview

### Brief Summary

The objective of this study is to evaluate the safety, tolerability, and efficacy of memantine compared to placebo in outpatients diagnosed with moderate-to-severe dementia of the Alzheimer's type on a concurrent acetylcholinesterase inhibitor (AChEI).

### Detailed Description

Memantine is a therapeutic agent that represents a unique class of Alzheimer's disease (AD) treatment options. A once daily (QD) dosing regimen in an AD population would simplify administration for the caregiver. The purpose of this study is to evaluate the safety and efficacy of modified release memantine taken once daily in outpatients with moderate-to-severe AD on a concurrent AChEI.

### Official Title

A Randomized, Double-Blind, Placebo-Controlled Evaluation of the Safety and Efficacy of Memantine in Patients With Moderate-to-Severe **Dementia of the Alzheimer's Type**

### Conditions

**Dementia of the Alzheimer's Type**

### Study Start

2005-06

### Primary Completion (Actual)

2007-10

### Study Completion (Actual)

2008-01

### Enrollment (Actual)

677

### Study Type

Interventional

### Phase

Phase 3

# Navigating TrialMatch (Alzheimer's Association)



The Alzheimer's Association has partnered with Carebox to provide access to TrialMatch®, a free, easy-to-use research studies matching service that connects individuals living with cognitive impairment, Alzheimer's disease or another dementia, caregivers and healthy participants with current research studies. Advancing Alzheimer's and dementia research starts with you. Help shape the next breakthrough with TrialMatch.

Start Here

[No Title]

If you have a specific trial or therapy in mind, you can browse and filter all trials directly.

Condition or trial ID  
Alzheimer's Disease ×

Location  
Seattle, WA 98104, USA ×

Browse Trials



[TrialMatch: Participate in Clinical Research for Alzheimer's and Other Dementia](#)

# Local Resources for Trial Participation



Contact: [uwadrc@uw.edu](mailto:uwadrc@uw.edu)  
Phone: 206-616-3973



## How to Participate in Research

UW ADRC scientists want to learn more about the diseases that cause memory loss and dementia. Our center is seeking a variety of people willing to partner with us in Alzheimer's research. We think of study participants as our partners in the effort to find a prevention for neurological conditions that lead to dementia. New opportunities for clinical trials and research studies arise over time, and these may involve different patient groups. This webpage explains how you can learn more about participating in clinical trials or research studies at the ADRC.



### Step 1:

Explore the Options

Explore the list of enrolling clinical trials and research studies through the pages below.



### Step 2:

Contact the Coordinator

Each trial and study description includes the contact for the coordinator.



Learn More about Participation

Explore the clinical trial resources at the links below.

## Alzheimer's Disease Research Center

# Key Takeaways

- Dementia impact
- Clinical trials are the foundation of evidence-based medicine
- Time delays and the representation gap in research
- Challenges to enrollment in trials
- Benefits of trial participation
- Success and promising strategies for inclusion of older adults into trials
- Resources and support for helping older adults and individuals with dementia to get involved

Health care providers are the single most influential referral source — your recommendation matters!!

# Every Participant Counts Thank You

Questions & Comments