Participating in clinical studies

Scientists have made enormous strides in understanding how Alzheimer’s disease affects the brain. Many of these insights point toward new therapies and improved ways to diagnose the disease and monitor its progression.

At any given time, dozens of studies are recruiting participants to help explore these exciting new approaches. Every clinical study contributes valuable knowledge, regardless of whether the experimental strategy works as hoped.

Without study participants, however, progress is stalled, and scientists report growing difficulty finding enough volunteers to complete these studies.

If you or a friend or family member has Alzheimer’s or another dementia — or even if you don’t — you can help advance knowledge about this illness. By participating in a clinical study, you can help new treatments, preventive strategies and diagnostic tools to become a reality.

What is a clinical study?
A clinical study is any medical research project involving human volunteers. Research into improved approaches usually begins with laboratory work or animal studies. Following early success with these methods, new strategies must demonstrate their effectiveness in the final proving ground of human testing.

What is a clinical trial?
A clinical trial is a specific type of study in which one group of volunteers gets an experimental treatment, while a similar group gets a placebo (a look-alike “sugar pill”). Scientists evaluate the effect of the new treatment by comparing outcomes in the two groups.

Phases of clinical trials
The U.S. Food and Drug Administration (FDA), which regulates medical products and drugs, oversees a rigorous process for testing experimental treatments that is based on sequential phases. The treatments must perform well enough in each phase to progress to the next one. If a treatment performs adequately in all stages through Phase III, the FDA reviews the data and determines whether to approve the drug for use in general medical practice.

- **Phase I trials**, the first stage of human testing, typically enroll fewer than 100 volunteers. These studies are primarily concerned with assessing the safety of a drug and whether it has risks or side effects.
- **Phase II trials** enroll up to a few hundred volunteers with the condition the drug is designed to treat. These studies provide further information about the safety of the drug and focus on determining the best dosage. Scientists also watch for signs of effectiveness, but Phase II trials are generally too small to provide clear evidence about benefit.
- **Phase III trials** may enroll several hundred to thousands of volunteers, often at multiple study sites nationwide or internationally. Phase III trials provide the chief evidence for safety and effectiveness that the FDA will consider when deciding whether to approve a new drug.
• **Phase IV trials**, also called post-marketing studies, are often required by the FDA after a drug is approved. The trial sponsor must monitor the health of individuals taking the drug to gain further insight into its long-term safety effectiveness and the best way to use it.

**Ensuring accuracy of study results**
Scientists have learned that people can sometimes feel better, and even have improved results on medical tests, just because they believe a treatment is helping. Doctors can also convince themselves a treatment is working because they care about their patients and want to help them get better. There are two main strategies to reduce the likelihood that hopes and beliefs will affect the outcome of clinical trials:

1. **Trials are “placebo-controlled.”** This means that some study participants are randomly chosen by a computer to receive the experimental treatment and some receive a placebo.

2. **Trials are “double-blind.”** This means that neither participants nor study staff know who is getting the drug and who is getting the placebo. Some studies are designed so the group of participants getting the treatment is larger than the group receiving the placebo; some studies can be designed so all participants get the treatment for part of the study.

**Monitoring safety behind the scenes**
Although participants and study staff don’t know who’s getting the treatment and who’s getting the placebo, most trials have a separate, independent Data Safety and Monitoring Committee that has access to this information. Committee members regularly analyze data and step in if they notice any worrisome patterns of serious side effects.

**Informed consent: knowing what to expect**
Informed consent is the process of learning key facts about a study before deciding whether to volunteer. The FDA requires potential participants to have complete information about the study in writing. Study staff members are required to meet with each prospective participant to explain risks, possible benefits and answer any questions. People who decide to join the study must sign an informed consent form. Individuals who are invited to participate in a study are not required to join. Participants are also free to leave a study at any time.

**Matching participants to studies**
Enrolling the right participants helps researchers maximize the likelihood of accurately measuring the effect of an experimental treatment. Some drugs, such as antibiotics for infections, have an obvious effect that is fairly easy to detect. It is often more challenging to assess the impact of drugs for chronic, serious diseases, including Alzheimer’s. To eliminate certain factors that make it harder to evaluate a treatment, researchers define “inclusion and exclusion criteria” for each clinical study. Examples of these criteria include:

- Limiting participants to a certain age range.
- Requiring participants to be in a certain stage of the disease being studied.
- Not allowing health conditions other than the one being studied.
- Not permitting use of certain medications other than the study drug.
- Requiring participation of a caregiver or “study partner.”
How to find a study near you
Alzheimer’s Association TrialMatch® is a clinical studies matching service. TrialMatch uses information about your diagnosis, location and preferences to match a person with current clinical studies. Finding the right trial can be done over the phone or online. Once a match is found, and with your permission, a TrialMatch specialist will contact you to answer questions.

If you would like to consider participating in a clinical study, call **800.272.3900** or visit [alz.org/trialmatch](http://alz.org/trialmatch). TrialMatch specialists are available from 7 a.m. to 8:30 p.m. CT, Monday through Friday.

More information about clinical studies can also be found at clinicaltrials.gov.

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