



























What Is Clinical Research?

- · Medical and behavioral research involving volunteer participants Investigations that are carefully developed and conducted with clinical
- Identification of better ways to prevent, diagnose, treat, and
- Trials that test new treatments, clinical management and clinical outcomes, and long-term studies

Research is a systematic investigation to establish fact. Treatment is the care provided to improve a situation











What Are Some of the Possible Risks Associated with Taking Part in a Clinical Trial?

- New vaccines, microbicides, and other strategies under study are not always better than the standard care to which they are being compared
- New treatments may have unexpected side effects or risks that are worse than those resulting from standard care
- Health insurance and managed care providers may or may not cover all participant care costs in a study
- Participants may be required to make more visits to the doctor than they would if not in the clinical trial
- Participants in randomized trials are not able to choose the kind of
 intervention they will receive











What Is Pre-Clinical Testing?

Pre-clinical testing is required before testing humans. Pre-clinical testing is often conducted on animals. Many pre-clinical studies use a review committee to determine if the use of animals is warranted. The review committee also checks to see if the research can be improved by reducing or replacing animals. Laboratory and animal studies are conducted to:

- Find out if there is a potential benefit of the drug, vaccine, or other product
- Explore general safety concerns

If a vaccine, microbicide, or other strategy has a potential benefit, it is prepared for human testing. Pre-clinical testing takes approximately three to four years.



What Is an Investigational New Drug Application (IND)?

For studies that involve a new vaccine, microbicide, or other strategy, after completing pre-clinical testing, an investigational new drug application (IND) must be filed:

- Describing the results of pre-clinical testing
- Clearly defining how future studies will be conducted

The U.S. Food and Drug Administration (FDA) has 30 days to review the IND. If the FDA approves the IND within 30 days, the vaccine, microbicide, or other strategy can proceed to a phase I trial.





What Is Phase II (Test for Safety and Effectiveness)?

A phase II study provides comparative information about relative safety and effectiveness and/or efficacy. Most phase II studies are randomized trials. This means:

One group receives the experimental vaccine, microbicide, or other strategy

• A second "control" group receives the standard of care or placebo Some phase II studies are "blinded." This means participants and

researchers do not know who receives the experimental vaccine, microbicide, or other strategy. This testing may last from several months to 2 years. It may involve from 100-300 participants/volunteers. Only about 30% of experimental vaccines, microbicides, and other strategies successfully complete both phase I and phase II studies.

standing the Clinical Research Process and Principles of Clinical Resear







After all three clinical trial phases are complete and, if the research demonstrates that the vaccine, microbicide, or other strategy is safe and effective, a New Drug Application (NDA)/ Biologics License Application (BLA) is filed with the FDA. This NDA/BLA must contain all scientific

The FDA is allowed at least 6 months to review the NDA/BLA. However, this review process can sometimes take up to 2 years, depending on



What Is Approval (Available for Prescription)?

Health care providers are able to prescribe. Even after approval, reviews continue to ensure safety over time. For example, all cases of adverse events must be reported, and quality control standards must be met (sometimes studies to evaluate long-term effects are also required).

The accelerated approval process for serious diseases is designed to:

- Help development of treatments Speed review for serious diseases (like AIDS)
- Fill an unmet medical need to get important new treatments to patients

Accelerated approval can occur if a treatment will have an impact on survival, day-to-day functioning, and likelihood that a disease, if left untreated, will progress from a less severe condition to a more serious one.

Accelerated approval does not compromise the standards for the safety and effectiveness of the treatments that become available through this process.

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What Is a Protocol?

Clinical research is conducted according to a plan (a protocol) or action plan. The protocol acts like a "recipe" for conducting the trial. The plan describes what will be done in the study, how it will be conducted, and why each part of the study is necessary. The protocol or plan is carefully designed to safeguard the participants' health and answer specific research questions. The same protocol is used by every doctor or research center taking part in the trial. A protocol describes:

- Who is eligible to participate in the trial
- Details about tests, procedures, medications, and dosagesThe length of the study and what information will be gathered

A protocol is led by a principal investigator. The principal investigator is often a doctor. Members of the research team regularly monitor the participants' health to determine the study's safety and effectiveness and/or efficacy.

























What Is Respect for Persons, Beneficence,		
Justice?	,	,
Respect for Persons	Beneficence	Justice
People have a right to make their own choices	Researchers do everything possible to make sure the research does not harm participants in any way	There are more benefits for the participant than risks
All the facts about the research are presented to potential participants	The risks of the study will be kept as low as possible	Participants are fairly recruited as research participants
Volunteers must not be pressured to choose research over other options for care	The benefits of participating in the research study should be greater than the risks	
The community where research is being conducted is respected	It is more important to protect participants than to achieve benefits	
The community has a voice in what is done during the research (Community Advisory Boards help the research team do this)		

































Which Organizations Support the Six Clinical Trials Networks?

- The National Institute of Allergy and Infectious Diseases (NIAID) created the Division of Acquired Immunodeficiency Syndrome (DAIDS) in 1986 to develop and implement the national research agenda to address the HIV/AIDS epidemic
- The HIV/AIDS Network Coordination (HANC) project works with the six HIV/AIDS clinical trials networks funded by DAIDS of the U.S. National Institutes of Health (NIH) with the intent of creating a more integrated, collaborative and flexible research structure
- Statistical and operations centers
- Central laboratories
- Contract Research Organizations (CROs)

Who Are the Primary Partners with the NIH? The National Institute of Health is made up of 27 institutes and centers. Each focuses on specific research areas. More than 80% of NIH research activities are conducted by scientists around the world. Important NIH organizations that focus on AIDS-related research are: National Institute of Allergy and Infections Diseases (NIAID) National Institute of Mental Health (NIMH) National Cancer Institute (NCI) National Institute of Dental and Craniofacial Research (NIDCR) Office of AIDS Research (OAR)





