

Get to Know ClinicalTrials.gov

September 2015

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National Library of Medicine



Collaboration with the FDA Office of Minority Health

*March 2010 Affordable Care Act- Section 10334 mandated
creation of OMH across all HHS divisions*

Mission

The Office of Minority Health aims to promote and protect the health of diverse populations through research and communication of regulatory science that addresses health disparities.

- *Goal 1- To improve and strengthen regulatory science informing the research and evaluation of sub-population data associations with race and ethnicity.*
- *Goal 2- To strengthen FDA capacity to address minority health and health disparities across the Agency*
- *Goal 3- To promote effective communication and the dissemination of information to the public, particularly underserved, vulnerable populations.*



Importance and Commitment to Diversity in Clinical Trials at FDA

“When a more diverse population participates in clinical trials, we increase the potential to know more about the extent to which different subgroups—males and females, young and old, people of various racial and ethnic backgrounds, and patients with differing comorbid diseases and conditions—might respond to a medical product. And when subgroup data are analyzed, we have available more information about the product that can be communicated to the public. The result is greater assurance in the safety and effectiveness of the medical products used by a diverse population.”

Former FDA Commissioner Margaret Hamburg, August 2014

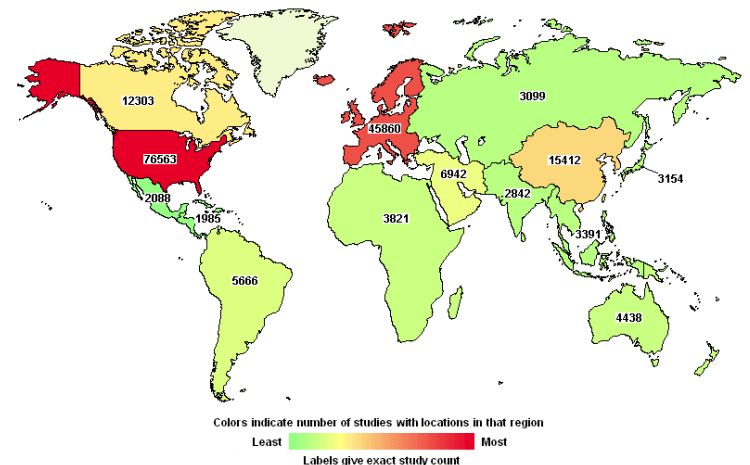
Outline for Presentation

- ClinicalTrials.gov Overview and Definitions
- ClinicalTrials.gov Content and Process
- Methods for Finding Trials
- ClinicalTrials.gov Results Database

About ClinicalTrials.gov

(as of September 2015)

- Clinical studies registry and results database
 - Over 199,000 studies (trials & observational studies)
 - Studies with locations in all 50 states and 190 countries
 - Privately and publicly funded studies involving humans
 - Study information submitted by sponsors
- Web Site & registry launched in February 2000
 - Results database, in September 2008
 - Over 18,000 studies with results
- Database updated nightly
- Usage
 - 179 million page views per month
 - 61,000 visitors per day



Why Conduct Clinical Trials?

- To obtain new and generalizable knowledge
- To provide evidence about treatments (benefits and risks) to inform medical decision making

What is a Clinical Trial?

- A study that involves human participants to answer a specific research question about their health
- A protocol or research plan describes what will happen in the study (study visits, lab tests, etc.)
- Participants receive an intervention such as a drug (or placebo)
 - The protocol determines what a participant receives
 - When more than one intervention is being tested, the participant does not typically get to choose; assignment is random
- Participants are followed carefully for a period of time and evaluated for changes in health outcomes

Clinical Trial



Protocol

Intervention

A 

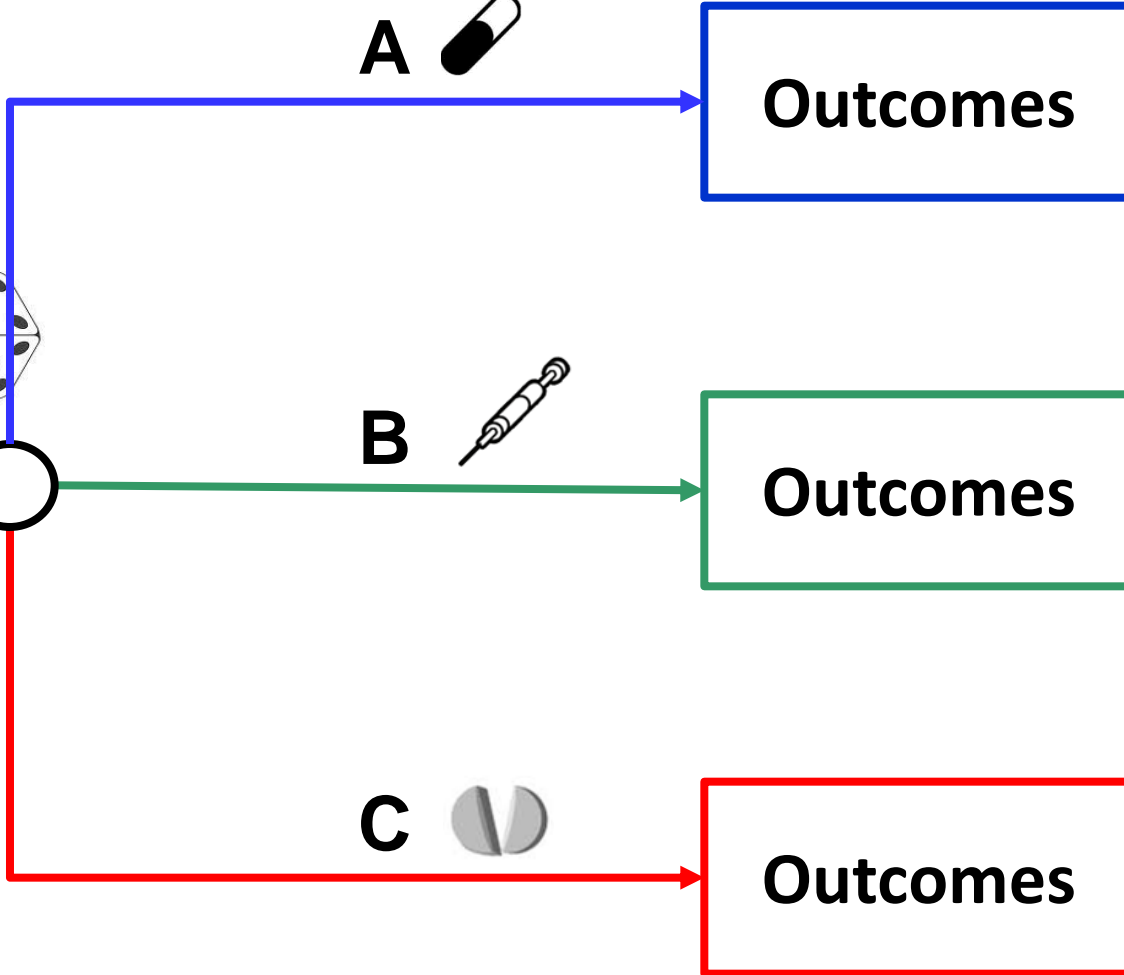
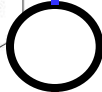
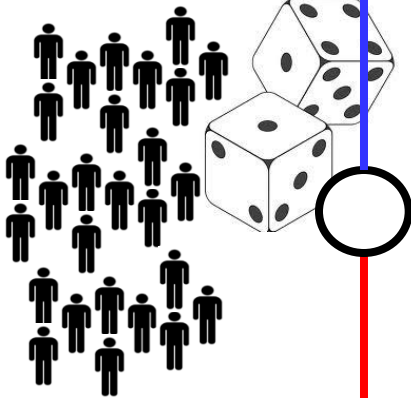
Outcomes

B 

Outcomes

C 

Outcomes



Example: Clinical Trial

- Effectiveness of Arginine as a Treatment for Sickle Cell Anemia ([NCT00513617](#))

ClinicalTrials.gov
A service of the U.S. National Institutes of Health

Example: "Heart attack" AND "Los Angeles"
Search for studies: Search

[Advanced Search](#) | [Help](#) | [Studies by Topic](#) | [Glossary](#)

[Find Studies](#) ▾ | [About Clinical Studies](#) ▾ | [Submit Studies](#) ▾ | [Resources](#) ▾ | [About This Site](#) ▾

[Home](#) > [Find Studies](#) > [Search Results](#) > [Study Record Detail](#) Text Size ▾

Trial record 1 of 1 for: NCT00513617
[Previous Study](#) | [Return to List](#) | [Next Study](#)

Effectiveness of Arginine as a Treatment for Sickle Cell Anemia

| | |
|--|--|
| <p>This study has been completed.</p> <p>Sponsor: National Heart, Lung, and Blood Institute (NHLBI)</p> <p>Information provided by: National Heart, Lung, and Blood Institute (NHLBI)</p> | <p>ClinicalTrials.gov Identifier: NCT00513617</p> <p>First received: August 6, 2007 Last updated: June 19, 2009 Last verified: June 2009 History of Changes</p> |
|--|--|

[Full Text View](#) | [Tabular View](#) | [Study Results](#) | [Disclaimer](#) | [? How to Read a Study Record](#)

Clinical Trial Example

Adapted from NCT00513617

| Arms | Assigned Interventions |
|--|---|
| Active Comparator Low Dose 0.05 g/kg/day Arginine | Drug: Arginine Depending on the weight of the child or adult, the patients took any where between 4-10 capsules 2 times a day. Patients weighing less than 45 kilograms were on the low dose active (or placebo) so the capsules were smaller. Patients greater than or equal to 45 kgs were on the high dose active or placebo, so these capsules were larger. |
| Active Comparator High Dose 0.10 g/kg/day Arginine | Drug: Arginine Depending on the weight of the child or adult, the patients took any where between 4-10 capsules 2 times a day. Patients weighing less than 45 kilograms were on the low dose active (or placebo) so the capsules were smaller. Patients greater than or equal to 45 kgs were on the high dose active or placebo, so these capsules were larger. |
| Placebo Comparator Placebo (no Arginine) | Drug: Placebo Depending on the weight of the child or adult, the patients took any where between 4-10 capsules 2 times a day. Patients weighing less than 45 kilograms were on the low dose active (or placebo) so the capsules were smaller. Patients greater than or equal to 45 kgs were on the high dose active or placebo, so these capsules were larger. |

Clinical Trials Vary in Purpose

- Wide variety of populations
 - Healthy volunteers
 - People with the condition in various stages of disease and/or treatment (early → late)
- Wide range of goals
 - Assess level of toxicity, find appropriate dose, evaluate drug interactions
 - Study the disease process
 - Evaluate if an intervention can prevent or treat disease
 - Compare known treatments to each other

Other Types of Research

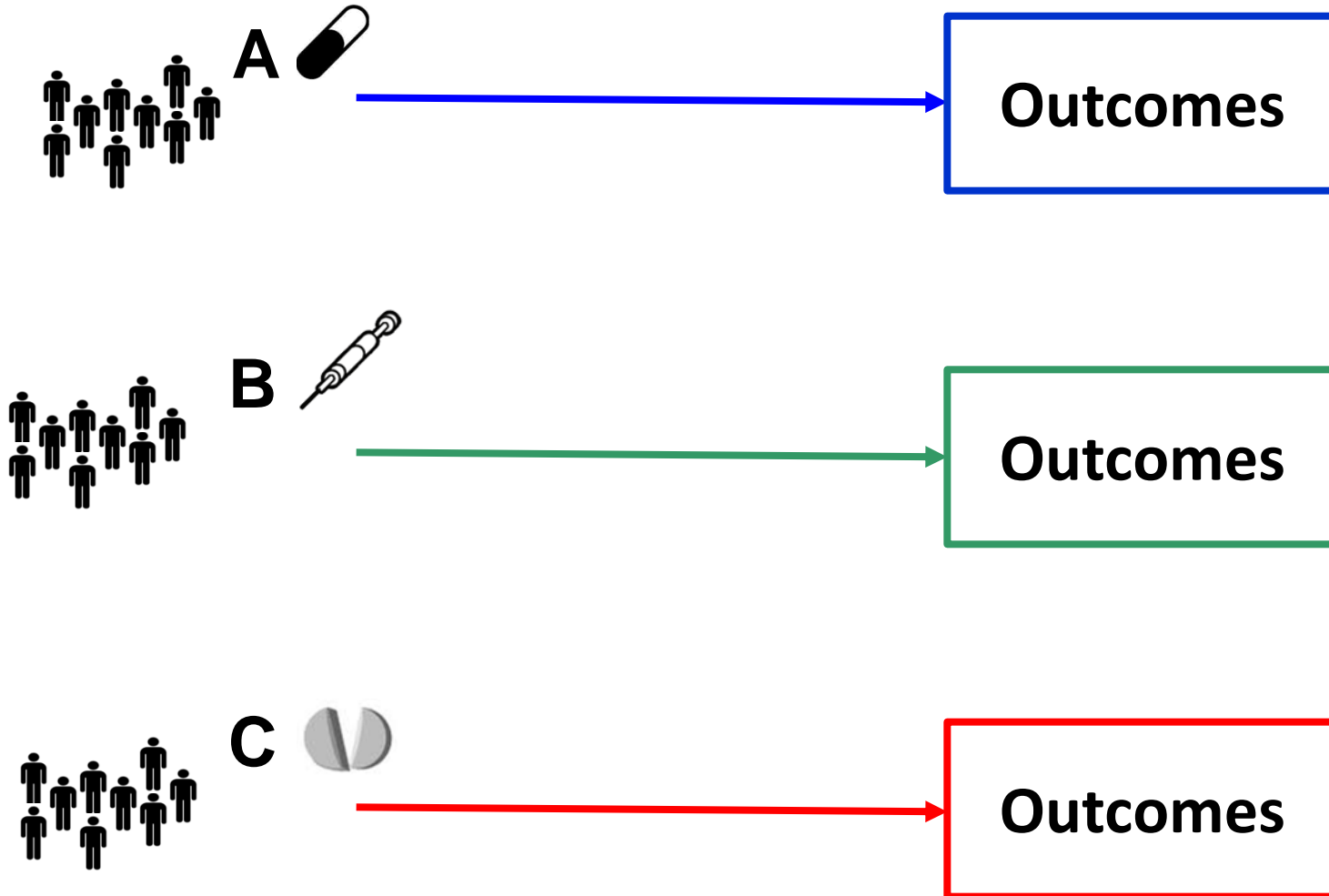
- Observational studies
 - A study that uses a protocol or research plan to evaluate a specific research question in human participants
 - Participants receive “usual medical care” (their treatment is not determined by the protocol)
 - Participants are “observed” over time and health outcomes assessed

Observational Study



Routine Medical Care

Protocol



Example: Observational Study

- Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia ([NCT00011648](https://clinicaltrials.gov/ct2/show/study/NCT00011648))

The screenshot displays the ClinicalTrials.gov website interface. At the top left is the logo for ClinicalTrials.gov, a service of the U.S. National Institutes of Health. A search bar is located at the top right, with an example search query: "Heart attack" AND "Los Angeles". Below the search bar are links for "Advanced Search", "Help", "Studies by Topic", and "Glossary". A navigation menu includes "Find Studies", "About Clinical Studies", "Submit Studies", "Resources", and "About This Site". The breadcrumb trail shows the path: Home > Find Studies > Search Results > Study Record Detail. The main heading for the study is "Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia". The study is identified as "Trial record 1 of 1 for: NCT00011648". A green banner states: "This study is currently recruiting participants. (see Contacts and Locations)". The study was verified on August 25, 2015, by the National Institutes of Health Clinical Center (CC). The sponsor is the National Heart, Lung, and Blood Institute (NHLBI), and the collaborator is the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The information provided by the responsible party is the National Institutes of Health Clinical Center (CC) (National Heart, Lung, and Blood Institute (NHLBI)). On the right side, the ClinicalTrials.gov Identifier is NCT00011648, and it was first received on February 24, 2001, last updated on August 25, 2015, and last verified on August 2015. A link for "History of Changes" is also present. At the bottom, there are buttons for "Full Text View", "Tabular View", and "No Study Results Posted", along with links for "Disclaimer" and "How to Read a Study Record".

ClinicalTrials.gov
A service of the U.S. National Institutes of Health

Search for studies:
Example: "Heart attack" AND "Los Angeles"
[Advanced Search](#) | [Help](#) | [Studies by Topic](#) | [Glossary](#)

[Find Studies](#) | [About Clinical Studies](#) | [Submit Studies](#) | [Resources](#) | [About This Site](#)

Home > Find Studies > Search Results > Study Record Detail Text Size ▾

Trial record 1 of 1 for: NCT00011648
[Previous Study](#) | [Return to List](#) | [Next Study](#)

Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia

This study is currently recruiting participants. (see [Contacts and Locations](#))
Verified August 2015 by National Institutes of Health Clinical Center (CC)

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National Heart, Lung, and Blood Institute (NHLBI)

Collaborator:
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

Information provided by (Responsible Party):
National Institutes of Health Clinical Center (CC) (National Heart, Lung, and Blood Institute (NHLBI))

ClinicalTrials.gov Identifier:
NCT00011648

First received: February 24, 2001
Last updated: August 25, 2015
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[History of Changes](#)

[Full Text View](#) | [Tabular View](#) | [No Study Results Posted](#) | [Disclaimer](#) | [How to Read a Study Record](#)

Observational Study Example

Adapted from NCT00011648

- Men and women 18 years of age and older with sickle cell anemia
 - Initial assessment (medical history, physical exam, blood collection, echocardiogram)
- A study nurse will contact participants two times a month for 2 months, then once every 3 months for 3 years
 - Telephone interview with questions about health and health-related events (hospitalizations or emergency room visits)

ClinicalTrials.gov Content and Process

Why Register a Study and Submit Results on ClinicalTrials.gov?

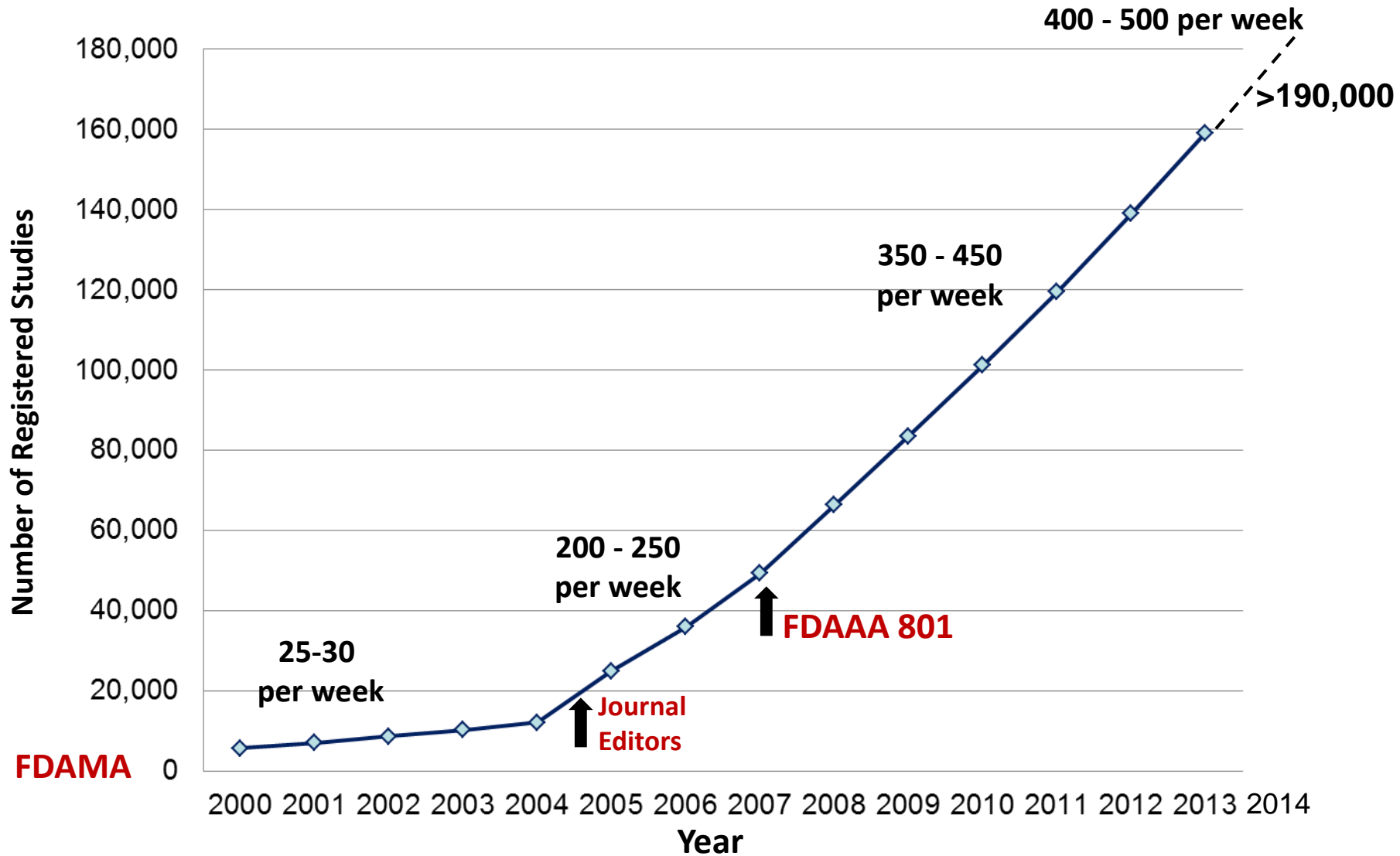
- Ethical and Scientific Rationale
 - Responsibility to research participants, patients, and the public
 - Research integrity
 - Evidence-based medicine
- Required by various policies and laws

Key U.S. Policies and Laws

- **Journal editors** require registration of clinical trials (2005)
- **U.S. Federal Laws**
 - FDAMA 113 (1997): registration of clinical trials of investigational drugs for serious and life-threatening conditions
 - FDAAA 801 (2007): registration & results for clinical trials of drugs and devices (early/Phase 1 trials excluded)
 - Results reporting only required for trials of “approved” products (but proposed to expand to include unapproved)
- **NIH** encourages registration & results for all NIH-funded clinical trials
 - Proposal issued by NIH in Nov 2014 to make this a requirement

Studies Registered Over Time

(as of September 2015)



ClinicalTrials.gov Content

(as of September 24, 2015)

| | Registration | Results |
|----------------------|----------------------------|---------------|
| Total | 199,165[†] | 18,463 |
| Type of Trial | | |
| Observational | 37,760 (18%) | 1,163 (6%) |
| Interventional* | 160,497 (80%) | 17,300 (93%) |
| - Drug or Biologic | 101,366 | 14,116 |
| - Behavioral, Other | 44,302 | 2,680 |
| - Surgical Procedure | 17,371 | 890 |
| - Device | 17,044 | 1,868 |

[†] Includes 321 Expanded Access study records and 587 applicable device clinical trials that submitted a “delayed posting” under FDAAA

* Intervention types not additive; study record may include more than one type of intervention

ClinicalTrials.gov Content

(as of September 24, 2015)

| | Registration | Results |
|---------------------------|----------------|---------------|
| Total | 199,165 | 18,463 |
| Funder Type [†] | | |
| Universities, foundations | 97,426 | 3,399 |
| Industry | 74,748 | 12,523 |
| U.S. NIH | 24,482 | 2,241 |
| U.S. Federal Gov.t | 4,640 | 589 |
| Location | | |
| Non-U.S. Only | 91,039 (46%) | -- |
| U.S. Only | 76,066 (38%) | -- |
| Not specified | 20,360 (10%) | -- |
| Both U.S. and Non-U.S. | 11,700 (6%) | -- |

[†] Funder types not additive; study record may include more than one type of funder

Content of a Study Record

(One Record per Unique Study Protocol – *Single NCT Number*)

- Protocol section
 - Submitted at trial start; updated throughout trial lifecycle
 - Summarizes information from trial protocol: e.g.,
 - Condition
 - Interventions
 - Study Design
 - Includes recruitment information (e.g., eligibility, locations)
- Results section
 - Submitted after trial completion/termination
 - Summarizes trial results
 - Participant flow
 - Baseline characteristics
 - Outcome measures (including statistical analyses)
 - Adverse events

Example: Observational Study

- Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia ([NCT00011648](https://clinicaltrials.gov/ct2/show/study/NCT00011648))

ClinicalTrials.gov
A service of the U.S. National Institutes of Health

Search for studies: Search
Example: "Heart attack" AND "Los Angeles"
[Advanced Search](#) | [Help](#) | [Studies by Topic](#) | [Glossary](#)

[Find Studies](#) | [About Clinical Studies](#) | [Submit Studies](#) | [Resources](#) | [About This Site](#)

Home > Find Studies > Search Results > Study Record Detail Text Size ▾

Trial record 1 of 1 for: NCT00011648
[Previous Study](#) | [Return to List](#) | [Next Study](#)

Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia

This study is currently recruiting participants. (see [Contacts and Locations](#))
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[Full Text View](#) | [Tabular View](#) | [No Study Results Posted](#) | [Disclaimer](#) | [How to Read a Study Record](#)

Highlights

Study Title

Recruitment Status

Sponsor & Funders

NCT Number

Dates

Highlights

Study Design

Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia

Study Type: Observational

ClinicalTrials.gov Identifier: NCT00011648

Estimated Enrollment: 1200

Study Start Date: February 2001

Outcome Measures: Prevalence of secondary pulmonary hypertension ...

► Eligibility

Ages Eligible for Study: 18 Years and older

Genders Eligible for Study: Both

Accepts Healthy Volunteers: Yes

Criteria

- INCLUSION CRITERIA:

All volunteer subjects must be at least 18 years of age and must be able to provide informed, written consent for participation in this study. Decisional impaired subjects will not be included in this study because it does not offer the prospect of direct benefit.

Sickle Cell Patients:

Male and females over 18 years of age.

Diagnosis of sickle cell disease (electrophoretic documentation of SS, SC, or S-beta thalassemia genotype is required).

► Contacts and Locations

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the Contacts provided below. For general information, see [Learn About Clinical Studies](#).

Please refer to this study by its ClinicalTrials.gov identifier: NCT00011648

Locations

United States, Maryland

National Institutes of Health Clinical Center, 9000 Rockville Pike

Bethesda, Maryland, United States, 20892

Contact: For more information at the NIH Clinical Center contact Patient Recruitment and Public Liaison Office (PRPL) 800-411-1222 ext

TTY8664111010 prpl@mail.cc.nih.gov

Recruiting

Who can Participate

Who to Contact

ClinicalTrials.gov Process Overview

- Information submitted to ClinicalTrials.gov by Responsible Party of study (Sponsor or Principal Investigator)
- A record represents a single trial, even if more than 1 location
- Basic review criteria must be met before public posting
 - Automated rules then manual review by ClinicalTrials.gov staff
- Each record is:
 - Assigned a unique identifier (NCT Number)
 - Expected to be corrected/updated throughout life cycle
 - All changes tracked in public Archive site
- We add links to other useful resources about the condition evaluated or product studied (examples: Medline Plus; Genetics Home Reference; PubMed)

Review by ClinicalTrials.gov

- Evaluate whether study information is complete and generally understandable
 - Internal consistency and logic; complete and meaningful entries; formatting
- Posting of a study on ClinicalTrials.gov does not mean that it is endorsed by the National Institutes of Health (NIH)
- Choosing to participate in a study is an important personal decision. Talk with your doctor and family/friends about deciding to join a study.

Who “Approves” a Clinical Trial?

- Clinical trials of drugs in the U.S. are reviewed, approved, and monitored by an ethics committee (known as an institutional review board or IRB)
- Purpose is to ensure that study meets ethical standards and that rights and welfare of participants are protected
 - Informed consent
- Clinical trials recruiting on [ClinicalTrials.gov](https://clinicaltrials.gov) must indicate that they have IRB approval

Sample Uses of ClinicalTrials.gov

- Identify trials of potential interest for an individual or user community
- Track progress of a specific trial and availability of summary results
- Identify completed or ongoing trials for specific conditions/interventions
 - Supplements a literature review
- Identify researchers and/or centers of relevance to specific conditions/interventions

ClinicalTrials.gov Visitors by Role (2014)

| Role | % Respondents N=5,397 |
|--|--------------------------|
| Patient | 27% |
| Scientist/Researcher | 19% |
| Family or Friend of Patient | 13% |
| Health Care Provider (e.g., nurse, physician) | 8% |
| Other | 8% |
| Clinical Trial Staff | 7% |
| Clinical Research Support (e.g. regulatory affairs) | 5% |
| Healthy Person | 4% |
| Student/Educator | 4% |
| Medical Communications | 3% |
| Librarian or Information Professional | 2% |
| Institutional Review Board (IRB) or Ethics Committee Member | 1% |

Methods for Finding Trials

Methods for Finding Trials

- Basic Search
- Advanced Search - allows for a focused search
 - <https://clinicaltrials.gov/ct2/search/advanced>
- See Studies by Topic
 - Conditions/Rare Diseases, Drugs, Dietary Supplements, Sponsor/Collaborators, Locations
 - <https://clinicaltrials.gov/ct2/search/browse>
- See Studies on Map
 - <https://clinicaltrials.gov/ct2/search/map>

Demonstration

ClinicalTrials.gov

A service of the U.S. National Institutes of Health

ClinicalTrials.gov is a registry and results database of publicly and privately supported clinical studies of human participants conducted around the world. [Learn more about clinical studies](#) and [about this site](#), including relevant [history](#), [policies](#), and [laws](#).

[Find Studies](#) ▾ [About Clinical Studies](#) ▾ [Submit Studies](#) ▾ [Resources](#) ▾ [About This Site](#) ▾

ClinicalTrials.gov currently lists **194,735 studies** with locations in all 50 States and in **190 countries**.

[Text Size](#) ▾

Search for Studies

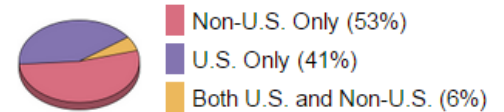
Example: "Heart attack" AND "Los Angeles"

[Advanced Search](#) | [See Studies by Topic](#)
[See Studies on a Map](#)

Search Help

- [How to search](#)
- [How to find results of studies](#)
- [How to read a study record](#)

Locations of Recruiting Studies



Total N = 36,062 studies
(Data as of July 16, 2015)

- [See more trends, charts, and maps](#)

For Patients and Families

- [How to find studies](#)
- [See studies by topic](#)
- [Learn about clinical studies](#)
- [Learn more...](#)

For Researchers

- [How to submit studies](#)
- [Download content for analysis](#)
- [About the results database](#)
- [Learn more...](#)

For Study Record Managers

- [Why register?](#)
- [How to register your study](#)
- [FDAAA 801 requirements](#)
- [Learn more...](#)

Learn More


- [Tutorials for using ClinicalTrials.gov](#)
- [Glossary of common site terms](#)
- [For the Press](#)
- [Using our RSS Feeds](#)

[HOME](#) [RSS FEEDS](#) [SITE MAP](#) [TERMS AND CONDITIONS](#) [DISCLAIMER](#) [CONTACT NLM HELP DESK](#)

See Studies by Topic

Select a topic:

Conditions

[Alphabetical \(A–Z\)](#) 

[By Category](#)

Rare Diseases

[Alphabetical \(A–Z\)](#)

Drug Interventions

[Alphabetical \(A–Z\)](#)

[By Category](#)

Dietary Supplements

[Alphabetical \(A–Z\)](#)

[By Category](#)

See Conditions by First Letter

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [Other](#) [All](#)

- [ACTH Syndrome, Ectopic](#) 8 studies
- [ACTH-Secreting Pituitary Adenoma](#) 4 studies
- [ADULT Syndrome](#) 1 study
- [AIDS Dementia Complex](#) 30 studies
- [AIDS-Associated Nephropathy](#) 6 studies
- [AIDS-Related Complex](#) 280 studies
- [AIDS-Related Opportunistic Infections](#) 177 studies
- [AL Amyloidosis](#) 131 studies
- [AML With Myelodysplasia-related Features](#) 29 studies
- [Abdomen, Acute](#) 15 studies
- [Abdominal Abscess](#) 28 studies
- [Abdominal Aortic Aneurysm](#) 211 studies
- [Abdominal Injuries](#) 20 studies

See Studies by Topic

Select a topic:

Conditions

[Alphabetical \(A–Z\)](#)

[By Category](#)

Rare Diseases

[Alphabetical \(A–Z\)](#)

Drug Interventions

[Alphabetical \(A–Z\)](#)

[By Category](#)

Dietary Supplements

[Alphabetical \(A–Z\)](#)

[By Category](#)

Sponsor/Collaborators

See Conditions by First Letter

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) **[S](#)** [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [Other](#) [All](#)

[SAPHO Syndrome](#) 2 studies

[Sacrococcygeal Teratoma](#) 1 study

[Sacroiliitis](#) 13 studies

[Salivary Gland Diseases](#) 271 studies

[Salivary Gland Neoplasms](#) 73 studies

[Salmonella Infections](#) 29 studies

[Sandhoff Disease](#) 15 studies

[Sarcoglycanopathies](#) 2 studies

[Sarcoidosis](#) 142 studies

[Sarcoidosis, Pulmonary](#) 22 studies

[Sarcoma](#) 1,222 studies

[Sarcoma Botryoides](#) 1 study

[Sarcoma, Alveolar Soft Part](#) 37 studies

[Sarcoma, Clear Cell](#) 30 studies

[Shoulder Pain](#) 147 studies
[Shprintzen-Goldberg Craniosynostosis Syndrome](#) 1 study
[Shwachman-Diamond Syndrome](#) 12 studies
[Shy-Drager Syndrome](#) 56 studies
[Sialadenitis](#) 3 studies
[Sialorrhea](#) 25 studies
[Sick Sinus Syndrome](#) 43 studies
[Sickle Beta Thalassemia](#) 12 studies
 [Sickle Cell Anemia](#) 417 studies
[Sickle Cell Trait](#) 10 studies
[Sideroblastic Anemia Pyridoxine-refractory Autosomal Recessive](#) 72 studies
[Siderosis](#) 13 studies
[Sigmoid Neoplasms](#) 1 study
[Signs and Symptoms](#) 17.9K studies
[Signs and Symptoms, Digestive](#) 1,673 studies
[Signs and Symptoms, Respiratory](#) 1,014 studies
[Silicosis](#) 7 studies
[Silver-Russell Syndrome](#) 2 studies
[Single Ventricular Heart](#) 46 studies
[Sinonasal Undifferentiated Carcinoma](#) 1 study
[Sinus Cancer](#) 4 studies
[Sinus Thrombosis, Intracranial](#) 2 studies

417 studies found for: "Sickle Cell Anemia"

[Modify this search](#) | [How to Use Search Results](#)

List

By Topic

On a Map

Search Details

+ Show Display Options



Download



Subscribe to RSS

Include only open studies Exclude studies with Unknown status

| Rank | Status | Study |
|------|------------|--|
| 1 | Recruiting | Microvascular Blood Flow in Sickle Cell Anemia Conditions: Sickle Cell Disease; Sickle Cell Anemia Interventions: Drug: regadenoson infusion with contrast-enhanced ultrasound; Procedure: contrast-enhanced ultrasound |
| 2 | Completed | A Study of the Efficacy and Safety of ICA-17043 (With or Without Hydroxyurea) in Patients With Sickle Cell Anemia. Conditions: Sickle Cell Disease; Sickle Cell Anemia Interventions: Drug: Low Dose ICA-17043; Drug: High dose ICA-17043; Drug: Placebo |
| 3 | Recruiting | Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia Conditions: Pulmonary Hypertension; Sickle Cell Anemia; Sickle Cell Disease Intervention: |
| 4 | Completed | L-Glutamine Therapy for Sickle Cell Anemia Conditions: Sickle Cell Anemia; Thalassemia |

417 studies found for: "Sickle Cell Anemia"

[Modify this search](#) | [How to Use Search Results](#)

List

By Topic

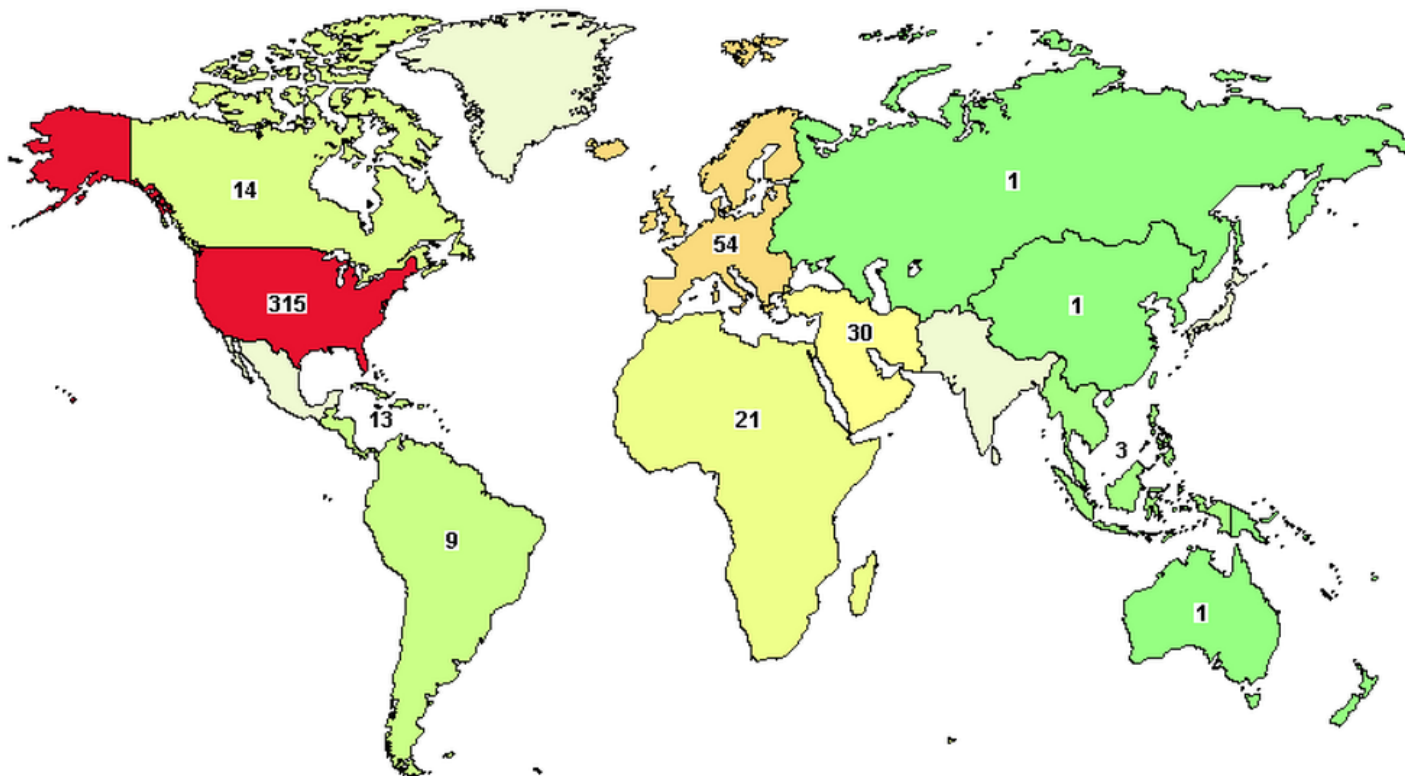
On a Map

Search Details

417 studies found, shown on map.

A similar map is available for all studies in [ClinicalTrials.gov](#)

Click on the map below to show a more detailed map (when available) or search for studies (when map not available).



Colors indicate the number of studies with locations in that region

Least  Most

Labels give the exact number of studies

417 studies found for: "Sickle Cell Anemia"

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| 4 | Completed | L-Glutamine Therapy for Sickle Cell Anemia Conditions: Sickle Cell Anemia; Thalassemia |


Fill in any or all of the fields below. Click on the label to the left of each search field for more information or read the [Help](#)

[Expert Search](#)

[Search Terms:](#)

Search

[Help](#)

 [Recruitment:](#) -- Recruiting ▾

Exclude Unknown status

[Study Results:](#) All Studies ▾

[Study Type:](#) Interventional Studies ▾

Targeted Search

 [Conditions:](#) "Sickle Cell Anemia"

[Interventions:](#)

[Title Acronym/Titles:](#)

[Outcome Measures:](#)

[Sponsor/Collaborators:](#)

[Sponsor \(Lead\):](#)

[Study IDs:](#)

Exact match

Exact match

Locations

[State 1:](#) --- Optional --- ▾

 [Country 1:](#) United States ▾

[State 2:](#) --- Optional --- ▾

[Country 2:](#) --- Optional --- ▾

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| Rank | Status | Study |
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| 1 | Recruiting | A Phase II Trial of Regadenoson in Sickle Cell Anemia Condition: Sickle Cell Anemia Interventions: Drug: Regadenoson; Drug: Placebo |
| 2 | Recruiting | Bone Marrow Transplantation in Young Adults With Severe Sickle Cell Disease Condition: Sickle Cell Disease Intervention: Other: Biological: Bone Marrow Transplant |
| 3 | Recruiting | Hydroxyurea to Prevent Brain Injury in Sickle Cell Disease Conditions: Sickle Cell Disease; Stroke Interventions: Drug: Hydroxyurea; Drug: Placebo |
| 4 | Recruiting | Nonmyeloablative Peripheral Blood Mobilized Hematopoietic Precursor Cell Transplantation for Sickle Cell Disease and Beta-thalassemia in People With Higher Risk of Transplant Failure Conditions: Sickle Cell Disease; Thalassemia; Stem Cell Transplantation; Graft vs Host Disease |

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Study Details

- Condition
- Intervention
- Study Type
- Phase
- Sponsor/Collaborators
- Funder Type
- Study Design
- Outcome Measures

Participant Details

- Number Enrolled
- Gender
- Age Group

Identifiers

- NCT Number
- Other IDs
- Title Acronym

Dates

- Study Start
- Primary Completion
- Study Completion
- First Received
- Last Updated
- Last Verified
- Results First Received

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1 **Recruiting** [A Phase II Trial of Regadenoson in Sickle Cell Anemia](#)

Condition: Sickle Cell Anemia

Interventions: Drug: Regadenoson; Drug: Placebo

Search Results Tools

- RSS Feed
 - Receive automatic updates on a specific search
 - <https://clinicaltrials.gov/ct2/resources/rss>
- Download Search Results
 - Choose study fields to include
 - Select file format (tab- and comma-separated values format is appropriate for a spreadsheet)
 - <https://clinicaltrials.gov/ct2/resources/download>

417 studies found for: "Sickle Cell Anemia"

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List

By Topic

On a Map

Search Details

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Include only open studies Exclude studies with Unknown status

| Rank | Status | Study |
|------|------------|--|
| 1 | Recruiting | Microvascular Blood Flow in Sickle Cell Anemia Conditions: Sickle Cell Disease; Sickle Cell Anemia Interventions: Drug: regadenoson infusion with contrast-enhanced ultrasound; Procedure: contrast-enhanced ultrasound |
| 2 | Completed | A Study of the Efficacy and Safety of ICA-17043 (With or Without Hydroxyurea) in Patients With Sickle Cell Anemia. Conditions: Sickle Cell Disease; Sickle Cell Anemia Interventions: Drug: Low Dose ICA-17043; Drug: High dose ICA-17043; Drug: Placebo |
| 3 | Recruiting | Secondary Pulmonary Hypertension in Adults With Sickle Cell Anemia Conditions: Pulmonary Hypertension; Sickle Cell Anemia; Sickle Cell Disease Intervention: |
| 4 | Completed | L-Glutamine Therapy for Sickle Cell Anemia Conditions: Sickle Cell Anemia; Thalassemia |

Other Considerations for Finding Trials

- There are many organizations that exist to provide support to people with a specific disease or condition and their families/friends
 - May have resources that are more targeted for your needs
 - Often includes ClinicalTrials.gov information
- Other organizations aim to “match” people to trials (and may require personal information)
 - BreastCancerTrials.org
 - ResearchMatch.org
 - Others ...

Possible Questions to Ask if Considering Participating in Research

- What is being studied?
- Why do researchers think the intervention may or may not be effective? Has it been tested before?
- What are the possible interventions that I might receive in trial? How will this be determined?
- How do the possible risks, side effects, benefits compare to my current treatment?

Possible Questions to Ask if Considering Participating in Research

- What tests and procedures are involved?
- How often will I have to visit hospital/clinic?
 - Will an overnight stay be required?
- How long will study last?
- Who is funding the study? Who will pay costs?
- Will I received the study results?
- Who will oversee my medical care?
- What are my options if I am injured in the study?

ClinicalTrials.gov Results Database

ClinicalTrials.gov Results Database

- Current requirements for results posting:
 - U.S. Law (FDAAA 801)
 - Clinical trials of approved drugs, biologics, devices
 - Excluded: Phase 1 drug & small device feasibility trials
 - Completed after December 2007
- Additional requirements may be coming*:
 - DRAFT NIH Policy: All NIH-funded clinical trials
 - Rulemaking for FDAAA: Include unapproved products
- Approximately half of studies with results on ClinicalTrials.gov are not yet published

*<http://www.nih.gov/news/health/nov2014/od-19.htm>

ClinicalTrials.gov Results Database: Basic information – reported by arm

- Participant Flow
 - Number Started
 - Number Completed
- Baseline Characteristics
 - Number Analyzed
 - Age and gender
 - Other relevant measures (e.g., disease history)
- Primary and Secondary Outcome Measures
 - Outcome Data
 - Statistical analyses (if any)
- Serious and Other Adverse Events
 - Total Number of Events
 - Specific Events by Organ Class

Studies with Results in ClinicalTrials.gov

| | | |
|----|--------------------------|--|
| 43 | Completed | <u>Gum Arabic as Fetal Hemoglobin Agent in Sickle Cell Anemia</u> Condition: Sickle Cell Anemia Intervention: Dietary Supplement: Gum Arabic |
| 44 | Completed Has Results | <u>Prasugrel Versus Placebo in Adult Sickle Cell Disease</u> Condition: Sickle Cell Anemia Interventions: Drug: Prasugrel; Drug: Placebo |
| 45 | Recruiting | <u>Retroviral Vector Mediated Globin Gene Transfer to Correct Sickle Cell Anemia or Thalassemia</u> Conditions: Sickle Cell Anemia; Thalassemia Intervention: Genetic: Gene Therapy |
| 46 | Completed | <u>Tricuspid Regurgitant Jet Velocity as an Independent Marker for Mortality in Sickle Cell Anemia</u> Conditions: Sickle Cell Anemia; Pulmonary Hypertension Intervention: Other: Data Collection |

Example of Study with Results

Prasugrel Versus Placebo in Adult Sickle Cell Disease

This study has been completed.

Sponsor:

Eli Lilly and Company

Collaborator:

Daiichi Sankyo Inc.

Information provided by (Responsible Party):

Eli Lilly and Company

ClinicalTrials.gov Identifier:

NCT01167023

First received: July 20, 2010

Last updated: April 9, 2012

Last verified: April 2012

[History of Changes](#)

[Full Text View](#)

[Tabular View](#)

[Study Results](#)

[Disclaimer](#)

[? How to Read a Study Record](#)

Results First Received: April 9, 2012

| | |
|-----------------------|--|
| Study Type: | Interventional |
| Study Design: | Allocation: Randomized; Endpoint Classification: Safety Study; Intervention Model: Parallel Assignment; Masking: Double Blind (Subject, Caregiver, Investigator, Outcomes Assessor); Primary Purpose: Treatment |
| Condition: | Sickle Cell Anemia |
| Interventions: | Drug: Prasugrel Drug: Placebo |

Participant Flow

Adapted from NCT01167023

Overall Study

| | Placebo | 5 mg Prasugrel | 7.5mg Prasugrel |
|---|-----------|----------------|-----------------|
| Started | 21 | 41 | 0 |
| Received at least 1 dose of study drug | 19 | 41 | 0 |
| Completed | 18 | 39 | 0 |
| Not Completed | 3 | 2 | 0 |
| Lost to Follow-up | 1 | 1 | 0 |
| Screen Failure | 1 | 0 | 0 |
| Sponsor Decision | 1 | 0 | 0 |
| Withdrawal by Subject | 0 | 1 | 0 |

Baseline Measures

Adapted from NCT01167023

Baseline Measures

| | Placebo | 5 mg Prasugrel | Total |
|--|--------------|----------------|--------------|
| Number of Participants | 21 | 41 | 62 |
| Age [units: years] Mean (Standard Deviation) | 31.52 (8.20) | 32.88 (8.60) | 32.42 (8.42) |
| Gender [units: participants] | | | |
| Female | 9 | 21 | 30 |
| Male | 12 | 20 | 32 |
| Ethnicity (NIH/OMB) [units: participants] | | | |
| Hispanic or Latino | 0 | 1 | 1 |
| Not Hispanic or Latino | 21 | 40 | 61 |
| Unknown or Not Reported | 0 | 0 | 0 |
| Race (NIH/OMB) [units: participants] | | | |
| American Indian or Alaska Native | 0 | 0 | 0 |
| Asian | 0 | 0 | 0 |
| Native Hawaiian or Other Pacific Islander | 0 | 0 | 0 |
| Black or African American | 21 | 40 | 61 |
| White | 0 | 1 | 1 |
| More than one race | 0 | 0 | 0 |
| Unknown or Not Reported | 0 | 0 | 0 |

Outcome Measures

Adapted from NCT01167023

Primary Outcome

| | |
|---------------------|---|
| Measure Title | Percentage of Participants With Hemorrhagic Events Requiring Medical Intervention During the Treatment Duration |
| Measure Description | A hemorrhagic event requiring medical intervention. Medical intervention was defined as any medical attention resulting in therapy or further investigation during the 30-day treatment duration. |
| Time Frame | Baseline through 30 days |

Measured Values

| | Placebo | 5 mg Prasugrel |
|--|---------|----------------|
| Number of Participants Analyzed | 19 | 41 |
| [units: percentage of participants] | 0 | 0 |

Serious Adverse Events

Adapted from NCT01167023

Serious Adverse Events

| | Placebo | 5 mg Prasugrel |
|--|----------------------|----------------------|
| Total Serious Adverse Events # participants affected/at risk | 4/19 (21.05%) | 8/41 (19.51%) |
| Blood and lymphatic system disorders | | |
| Pancytopenia | 1/19 (5.26%) | 0/41 (0.00%) |
| Congenital, familial and genetic disorders | | |
| Sickle cell anemia | 0/19 (0.00%) | 1/41 (2.44%) |
| Sickle cell anemia with crisis | 1/19 (5.26%) | 2/41 (4.88%) |
| Ear and labyrinth disorders | | |
| Vertigo | 0/19 (0.00%) | 1/41 (2.44%) |
| General Disorders | | |
| Pain | 1/19 (5.26%) | 0/41 (0.00%) |

Linking P Safety and Efficacy Study of Aeruginosa (AIR-CF2)

This study has been completed.

Sponsor:

Gilead Sciences

Information provided by:

Gilead Sciences

Full Text View

Tabular View

Purpose

The purpose of this study was to evaluate the safety and efficacy of inhaled aztreonam lysine (AZLI) in patients with chronic *Pseudomonas aeruginosa* (PA) infection due to *Pseudomonas aeruginosa* (PA) infection.

Condition

Cystic Fibrosis

More Information

No publications provided by Gilead Sciences

Additional publications automatically included in this study

McCoy KS, Quittner AL, Oermann CM, et al. Safety and efficacy of inhaled aztreonam lysine in patients with chronic *Pseudomonas aeruginosa* in cystic fibrosis. *Am J Respir Crit Care Med*. 2008 Nov 1;178(9):921-8. Epub 2008 Jul 24.

Inhaled Aztreonam Lysine for Chronic Airway *Pseudomonas aeruginosa* in Cystic Fibrosis

Karen S. McCoy¹, Alexandra L. Quittner², Christopher M. Oermann³, Ronald L. Gibson⁴, George Z. Retsch-Bogart⁵, and A. Bruce Montgomery⁶

¹Ohio State University, Columbus, Ohio; ²University of Miami, Coral Gables, Florida; ³Baylor College of Medicine, Houston, Texas; ⁴Children's Hospital and Regional Medical Center, Seattle, Washington; ⁵University of North Carolina at Chapel Hill, Chapel Hill, North Carolina; and ⁶Gilead Sciences, Inc., Seattle, Washington

Rationale: The effectiveness and safety of aztreonam lysine for inhalation (AZLI) in patients with cystic fibrosis (CF) on maintenance treatment for *Pseudomonas aeruginosa* (PA) airway infection was evaluated in this randomized, double-blind, placebo-controlled study.

Objectives: To evaluate the safety and efficacy of inhaled aztreonam lysine in controlling PA infection in patients with CF.

Methods: After randomization and a 28-day course of tobramycin inhalation solution (TIS), patients (n = 211; ≥6 yr; ≥3 TIS courses within previous year; FEV₁ ≥ 25% and ≤75% predicted values) were treated with 75 mg AZLI or placebo, twice or three times daily for 28 days, then monitored for 56 days. The primary efficacy endpoint was time to need for additional inhaled or intravenous antipseudomonal antibiotics. Secondary endpoints included changes in respiratory symptoms (CF Questionnaire-Revised [CFQ-R] Respiratory Scale), pulmonary function (FEV₁), and sputum PA density. Adverse events and minimum inhibitory concentrations of aztreonam for PA were monitored.

Measurements and Main Results: AZLI treatment increased median time to need for additional antipseudomonal antibiotics for symptoms of pulmonary exacerbation by 21 days, compared with placebo (AZLI, 92 d; placebo, 71 d; P = 0.007). AZLI improved mean CFQ-R respiratory scores (5.01 points, P = 0.02), FEV₁ (6.3%, P = 0.001), and sputum PA density (-0.66 log₁₀ cfu/g, P = 0.006) compared with placebo; no AZLI dose-response was observed. Adverse events reported for AZLI and placebo were comparable and consistent with CF lung disease. Susceptibility of PA to aztreonam at baseline and end of therapy were similar.

Conclusions: AZLI was effective in patients with CF using frequent TIS therapy. AZLI delayed time to need for inhaled or intravenous antipseudomonal antibiotics, improved respiratory symptoms and pulmonary function, and was well tolerated.

Clinical trial registered with www.clinicaltrials.gov (NCT 00104520).

MEASUREMENTS AND MAIN RESULTS: AZLI treatment increased median time to need for additional antipseudomonal antibiotics for symptoms of pulmonary exacerbation by 21 days, compared with placebo (AZLI, 92 d; placebo, 71 d; P = 0.007). AZLI improved mean CFQ-R respiratory scores (5.01 points, P = 0.02), FEV₁ (6.3%, P = 0.001), and sputum PA density (-0.66 log₁₀ cfu/g, P = 0.006) compared with placebo; no AZLI dose-response was observed. Adverse events reported for AZLI and placebo were comparable and consistent with CF lung disease. Susceptibility of PA to aztreonam at baseline and end of therapy were similar.

CONCLUSIONS: AZLI was effective in patients with CF using frequent TIS therapy. AZLI delayed time to need for inhaled or intravenous antipseudomonal antibiotics, improved respiratory symptoms and pulmonary function, and was well tolerated. Clinical trial registered with www.clinicaltrials.gov (NCT 00104520).

AT A GLANCE COMMENTARY

Scientific Knowledge on the Subject

Cystic fibrosis is a chronic disease often involving endobronchial infection with *Pseudomonas aeruginosa*, which is difficult to treat.

What This Study Adds to the Field

Safety and efficacy data on inhaled aztreonam show that this new formulation may be an alternative treatment option for patients with cystic fibrosis and chronic *P. aeruginosa* infection.

older patients, the most common pathogen in CF airway infections is *Pseudomonas aeruginosa* (PA); these infections are associated with an accelerated decline in pulmonary function and increased mortality (2-4).

Over the past 15 years, management of patients with CF has improved (1, 2, 5-8). However, antimicrobial treatment options for chronic PA airway infections remain limited and additional therapies are needed to augment improvements in clinical outcomes.

Aztreonam lysine for inhalation (AZLI) is an aerosolized formulation of the monobactam antibiotic aztreonam and lysine (9). The intravenous aztreonam formulation contains arginine, which can cause airway inflammation after chronic inhalation therapy in patients with CF (10, 11). The study described herein included patients with CF who frequently used antibiotics for PA

Clarifications about Results Requirements

- Summary results at the end of the trial
- Information currently targeted at readers of the medical literature
 - “Tables” of information; “just the facts”
 - No conclusions or discussion
- Results submission is not required for registered studies that are not subject to law (FDAAA 801)

Additional Resources

- ClinicalTrials.gov Online Training – brief animated tutorials
 - <http://www.nlm.nih.gov/bsd/viewlet/ct/>
 - Topics currently available: Basic Search, Advanced Search, Customize Your Display, Downloading Search Results, Modify a Search, RSS Feed Setup for a Search, Study Record Details, Using the ClinicalTrials.gov Results Database
- Find Studies: <https://www.clinicaltrials.gov/ct2/search/index>
- Learn About Clinical Studies
 - <https://clinicaltrials.gov/ct2/about-studies/learn>

Thank you!

Questions?

Contact us at: register@clinicaltrials.gov

