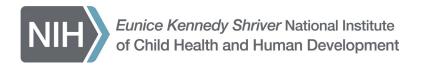
Strategic Plan 2020 Implementation: NICHD's Vision for Multisite Clinical Trials Infrastructure

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Outline

- Immediate assurances
- Overview of NICHD Strategic Plan 2020
- Four guiding principles driving change
- Examples of multisite clinical trial infrastructure models
- Questions



NICHD is committed to providing critical infrastructure support for multisite clinical trials that involve populations of key relevance to our research mission.



NICHD Currently Supports:

Extramural	Intramural	Division of Intramural Population Health Research
NICHD Networks	NIH Clinical Center NICHD Perinatology	Contraceptive Clinical Trials Network
	Research Branch	

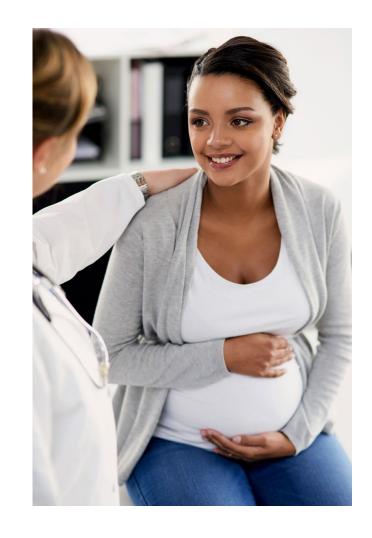


NICHD is committed to completing currently active protocols in existing NICHD-funded networks.



Currently active protocols in existing NICHD-funded networks will receive support until their completion.

- Networks will be able to finish protocols in the way they were designed.
- Completion of existing protocols may happen in parallel with the initiation of new approaches to supporting multisite clinical trial infrastructure.

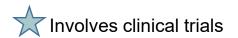






Overview of NICHD Strategic Plan 2020

NICHD Strategic Plan 2020: Scientific Research Themes



- 1. Understanding the Molecular, Cellular, and Structural Basis of Development
- ★ 2. Promoting Gynecologic, Andrologic, and Reproductive Health
- ** 3. Setting the Foundation for Healthy Pregnancies and Lifelong Wellness
- 🖈 4. Improving Child and Adolescent Health and the Transition to Adulthood
- 5. Advancing Safe and Effective Therapeutics and Devices for Pregnant and Lactating Women, Children, and People with Disabilities



Involves clinical trials

NICHD Strategic Plan 2020: Ten Aspirational Goals identified, including:



 Enhancing survival and healthy development of preterm infants



 Catalyzing research on immune factors in pregnancy to understand pregnancy loss and mechanisms for other complications



Accelerating efforts to diagnose, prevent, and treat endometriosis

And more...





21st Century Cures Act

SEC. 2031. NATIONAL INSTITUTES OF HEALTH STRATEGIC PLAN

Section 402(m) of the PHS Act: Strategic plans developed and updated by the national research institutes and national centers of the National Institutes of Health shall be prepared regularly and in such a manner that such plans will be informed by the strategic plans developed and updated under this subsection. Such plans developed by and updated by the national research institutes and national centers shall have a common template.





NICHD Strategic Plan 2020: Scientific Stewardship

- Facilitating transparency and communication
- Improving clinical trial oversight and management
- Facilitating data sharing and access to biospecimens
- Promoting an inclusive scientific workforce that fosters research training
- Setting research priorities
- Monitoring and evaluating programs
- Partnering and aligning resources to enhance science





NICHD Strategic Plan 2020: Management and Accountability

- Ensuring infrastructure innovation
- Improving administrative efficiency
- Minimizing risk through proper management
- Promoting workforce development and balance







Four Guiding Principles Driving Change

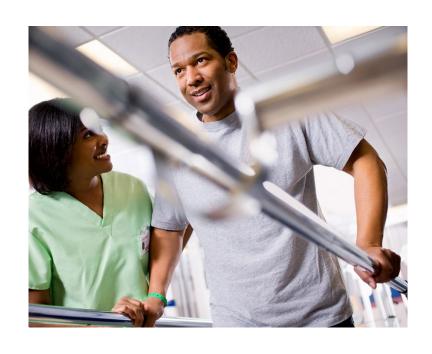
Four Guiding Principles Shaping the 21st Century Landscape of NIH-Supported Research

From NOT-HD-19-034 (October 10, 2019) https://grants.nih.gov/grants/guide/notice-files/NOT-HD-19-034.html

- 1. Enhancing rigor and reproducibility
- 2. Promoting greater availability of infrastructure
- 3. Facilitating data sharing and access to biospecimens
- 4. Facilitating greater involvement of **diverse populations** in multisite clinical trials



Guiding Principle 1: Enhancing the rigor and reproducibility of clinical trial protocols



- All multisite clinical trial protocols will be submitted through the NIH peer-review process, promoting fairness and objectivity.
- Scientific stewardship: improving clinical trial oversight and management, according to new NIH-wide policies.
- Minimizing NICHD staff exposure to real or perceived conflicts of interest.



Guiding Principle 2: Promoting greater availability of multisite clinical trial infrastructure to support trials from a wider range of investigators

- Benefits the science by introducing new ideas and perspectives
- Facilitates open access and fair competition: All qualified investigators will have the opportunity to participate in the conduct of NICHD-funded clinical trials
- Supports innovation and stimulates the field, growing areas of interest to NICHD
- Expands opportunities for investigators at different career stages



Guiding Principle 3: Facilitating data sharing and access to biospecimens

- Maximizes NICHD's infrastructure investments by promoting reuse of scientific data
- Incorporates FAIR data principles, an NIH standard for data management and stewardship
 - Findability
 - Accessibility
 - Interoperability
 - Reusability
- Enhances data harmonization, use of common data elements
- Capitalizes on artificial intelligence and other enhanced analytic techniques



Guiding Principle 4: Facilitating greater involvement of diverse populations in multisite clinical trials



- Addresses health disparities, which are significant concerns for NICHD's research populations
- Helps NICHD
 researchers to include
 racially and
 geographically diverse
 populations



Adhering to these principles ensures proper stewardship of public funds, increases accountability, and helps NICHD maintain the public's trust.





Examples of Multisite Clinical Trial Infrastructure Models

There is no "one size fits all" approach.

 Clinical trials infrastructure can be supported in several ways



Example 1: NICHD supports infrastructure as a central resource

Central multisite clinical trial infrastructure supported by NICHD

- NICHD solicits applications for clinical trial infrastructure.
- Applications undergo NIH peer review to evaluate the scientific merits of the infrastructure.
- NICHD selects and supports these resources.
- Infrastructure is made available to the entire research community.



Example 1: NICHD supports infrastructure as a central resource (cont.)

- Open competition: Any qualified investigator(s) can apply to use the infrastructure for a clinical trial protocol.
- All applications/protocols undergo NIH peer review.
- Over time, NICHD supports multiple trials conducted by multiple groups sharing the central infrastructure.





Example 1: NICHD supports infrastructure as a central resource – for the broader scientific community

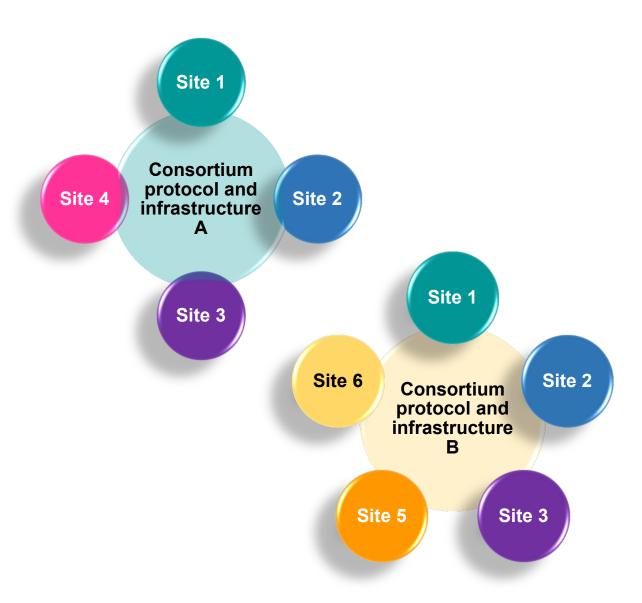
- The "Consultation Feature"
- Any qualified investigator(s) can apply to consult the experts who are part of the infrastructure.
- Allows NICHD to open the infrastructure to improve clinical trial design and implementation anywhere.





Example 2: Consortia Model

- Open competition: Investigators selfselect to form a clinical trial consortium that includes clinical sites and data center capabilities.
- Application from the consortium undergoes NIH peer review of both the infrastructure and protocol.
- NICHD makes decisions based on available funding and supports consortia for protocol implementation.
- This allows for flexibility across investigator teams, sites, and protocols.





In Summary

- NICHD is committed to providing critical infrastructure support for multisite clinical trials that involve populations of key relevance to our research mission.
- NICHD is committed to completing all currently active protocols as they were designed.
- NICHD is committed to implementing the four guiding principles, as described.
- There is no "one size fits all" approach to supporting multisite clinical trial infrastructure.



Request for Information (RFI)

- An RFI will soon be published in the NIH Guide to solicit your input on NICHD's vision for supporting multisite clinical trial infrastructure.
- All stakeholders are invited to respond.
- Information about the RFI and how to submit responses will be posted on the NICHD website.
 - https://www.nichd.nih.gov/about/meetings/2019/110119



Questions?

