

# Assembling an ePCT Team & Writing a Compelling Grant Application

Beda Jean-Francois, PhD  
Program Director, Clinical Research in Complementary and  
Integrative Health Branch  
National Center for Complementary and Integrative Health (NCCIH)



**NIH PRAGMATIC TRIALS  
COLLABORATORY**

Rethinking Clinical Trials®

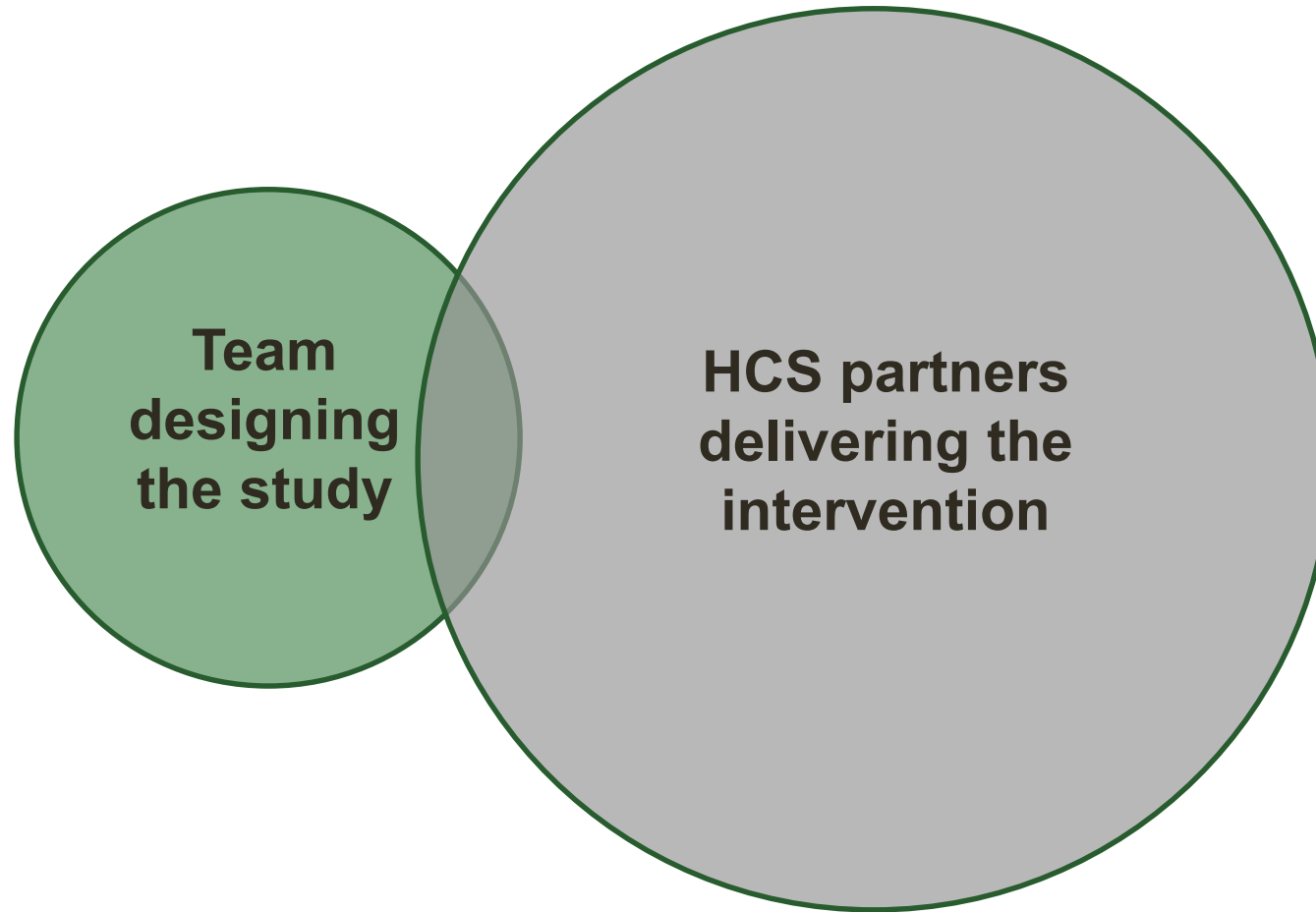
# Learning goal

- Identify skills needed for a strong study team

# Important things to know

- ePCTs are a team sport
- Necessary expertise depends on the study aims and how the intervention will be implemented
- Plan for ongoing training—Clinical, IT, or other staff turnover may be high
- Plan for sustainability—If the intervention will be turned on at all sites at end of study, what are the plans to maintain or turn off intervention?

# Who is involved?



# Potential team members

- Principal investigator, co-investigator
- Health system leader or executive
- Biostatistician
- Lead clinician (eg, pediatrician, behavioral specialist, radiologist, pharmacist, physical therapist)
- Clinical staff (eg, nurse, operations manager, business manager)
- IT specialist for EHR data extraction or clinical decision support tool design
- Implementation science researcher
- Site champion/liaison
- Practice facilitator
- Research assistant
- Project coordinator
- Research participant, patient, or patient advocate
- Society leadership

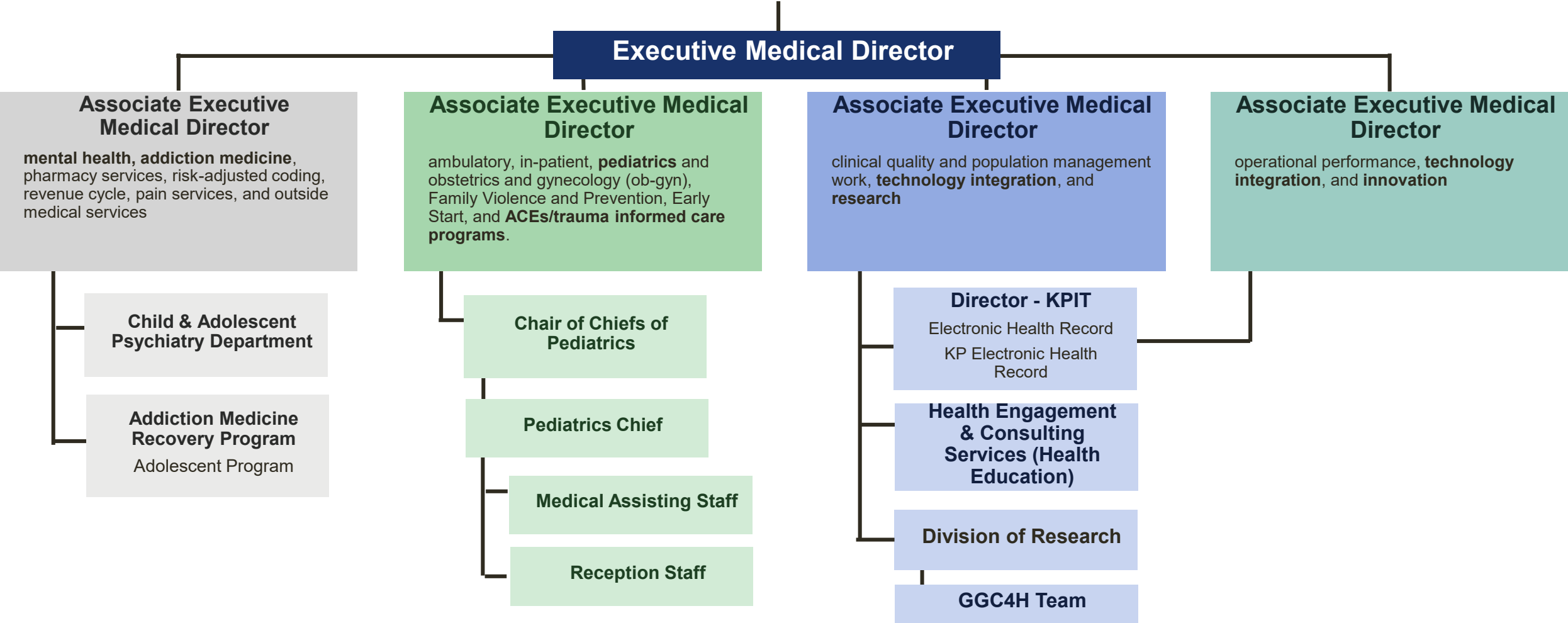
# Important things to do

- Identify the skills that are needed during the planning phase
- Recruit team members during the planning phase and engage them throughout for the duration of the trial
- Plan for staff turnover, especially clinical and IT
- Plan for dissemination, implementation, de-implementation at the start

# What skills will be needed?

- Best skill set depends on the study aims and how the intervention will be embedded in the healthcare system workflow
- Questions to ask:
  - What clinical specialties will be needed to carry out the intervention?
  - What roles will support clinic operations?
  - Who will be the liaison between HCS departments for interventions that are multidisciplinary?
  - What aspects of the trial will require IT staff expertise?
  - Will the trial need training videos, online materials, or toolkits?

# Kaiser Permanente Northern California



**Guiding Good Choices for Health:** The study team engaged with all of these aspects of The Permanente Medical Group at Kaiser Permanente Northern California. These stakeholders represent a small fraction of the many relevant stakeholders in large, complex healthcare systems. Most systems are comprised of several different entities – e.g., medical group,

## EPCT QUICK START GUIDE FOR RESEARCHER AND HEALTHCARE SYSTEMS LEADER PARTNERSHIPS

This Quick Start Guide is designed to help clinical investigators successfully partner with healthcare system leaders to support the successful conduct of an embedded pragmatic clinical trial (ePCT) within their healthcare system. It provides advice from the Collaboratory and serves as an annotated Table of Contents, pointing readers to essential content in the [Living Textbook](#) regarding partnering to conduct an ePCT.

Healthcare 4 (2016) 138–141

## Considerations for Training Clinicians on Pragmatic Clinical Trials



Contents lists available at [ScienceDirect](#)

Healthcare

journal homepage: [www.elsevier.com/locate/hjdsi](http://www.elsevier.com/locate/hjdsi)



Healthcare 7 (2019) 51–57



Contents lists available at [ScienceDirect](#)

Healthcare

journal homepage: [www.elsevier.com/locate/hjdsi](http://www.elsevier.com/locate/hjdsi)

Perspectives

### Trials without tribulations: Minimizing the burden of pragmatic research on healthcare systems

Eric B. Larson<sup>a</sup>, Chris Tachibana<sup>a</sup>, Ella Thompson<sup>a</sup>, Gloria D. Coronado<sup>b</sup>, Lynn DeBar<sup>b</sup>, Laura M. Dember<sup>c</sup>, Stacey Honda<sup>d</sup>, Susan S. Huang<sup>e</sup>, Jeffrey G. Jarvik<sup>f</sup>, Christine Nelson<sup>g</sup>, Edward Septimus<sup>h</sup>, Greg Simon<sup>a</sup>, Karin E. Johnson<sup>a,\*</sup>



Review article

Pragmatic clinical trials offer unique opportunities for disseminating, implementing, and sustaining evidence-based practices into clinical care: Proceedings of a workshop



Leah Tuzzio\*, Eric B. Larson, David A. Chambers, Gloria D. Coronado, Lesley H. Curtis, Wendy J. Weber, Douglas F. Zatzick, Catherine M. Meyers

# Writing a Compelling Grant Application

Is the question compelling, balanced team, right population, clinical sites with study population, and an approach which is clearly communicated?



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# Learning goals

- Identify elements of a compelling ePCT application
- Provide tips on NIH matchmaking

# Important things to know

- Online resources are available for the development of pragmatic trial grant applications
- NIH continues to update policies and forms related to clinical trial grant applications
- Some things, such as milestones and safety monitoring, may be negotiable around the time of an award

# National Institutes of Health

- NIH is made up of 27 institutes and centers, or ICs
- ICs award >80% of the NIH budget each year for research studies
- Each IC has a budget and a director, and typically their own review for large trials



National Institutes  
of Health

# Find the right NIH program official

- IC mission and priorities
  - Focus on a specific disease area, organ system, or stage of life
  - Use [Matchmaker tool in NIH RePORTER](#) for suggestions
  - Talk to program officials
  - Consult your mentor and colleagues

# NIH RePORTER matchmaker tool

- Use draft of specific aims
- Email query to program official rather than call (we telework and attend meetings)



## Matchmaker

Enter abstracts or other scientific text to find potential Program Officials, ICs, and review panels for your research. ?

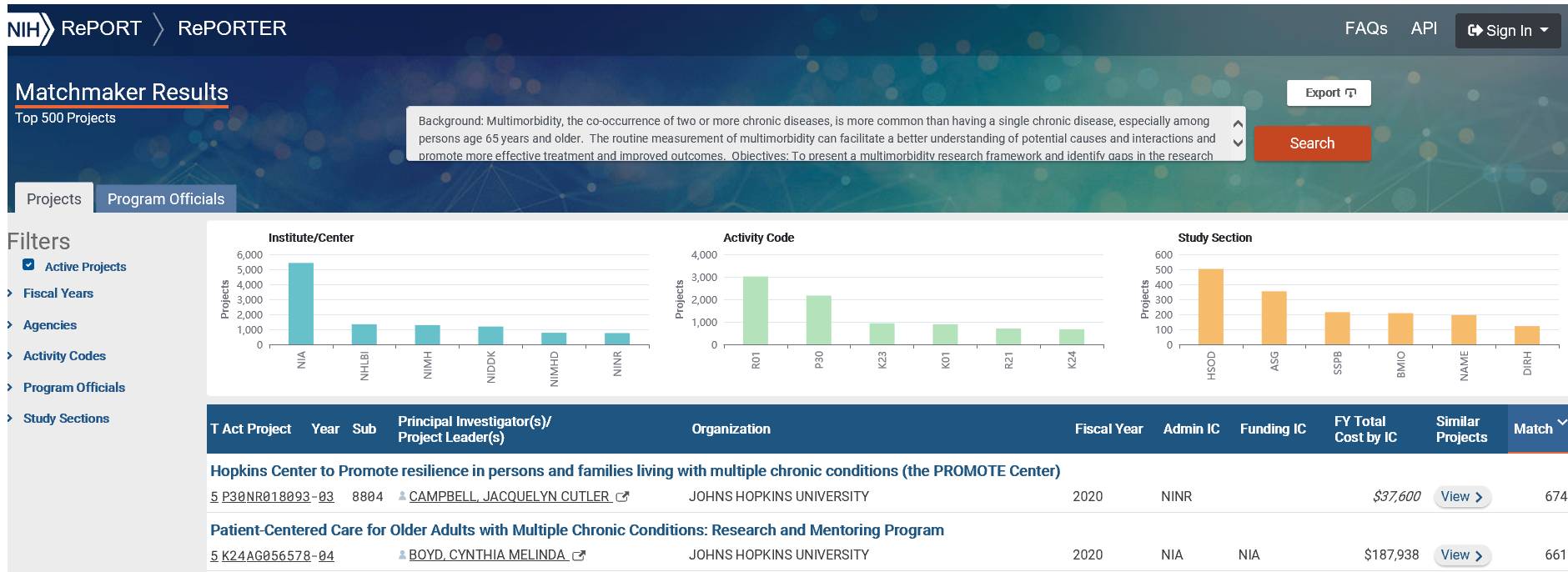
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- Similar Projects
- Similar Program Officials

Reset

Search

# Matchmaker results (example)



- This can help to connect you with the most appropriate PO(s)
- Prepare agenda and questions, to productively interact!
- Program officer can recommend a study section or two

# Find the right FOA

- Request for Application (RFA)
  - For specific areas of science where more research is needed, and applications are encouraged for investigator-initiated research in this specific area of science
- Notice of Special Interest (NOSI) and Program Announcement (PA, PAS, PAR)
  - For an area of scientific interest for one or more ICs where investigator-initiated research is needed

# NIH scientific contacts

**NCCIH** Wendy Weber  
**NCI** Wynne Norton  
**NHLBI** Larry Fine  
**NIA** Marcel Salive  
**NIAAA** Brett Hagman  
**NIAID** Clayton Huntley  
**NIAMS** Chuck Washabaugh  
**NICHD** Sue Marden  
**NIMHD** Larissa Aviles-Santa

**NIDA** Sarah Duffy  
**NIDCR** Dena Fischer  
**NIDDK** Susan Medley  
**NIMH** Matthew Rudorfer  
**NINDS** Rebecca Hommer  
**NINR** Karen Kehl  
**ODP** Elizabeth Nielson

# Tailor the application

*Tailor your application to address all the FOA-specific instructions and review criteria*

# Common application pitfalls

- Overly ambitious—beyond the life or length of the application
- Missing or inappropriate control groups
- Lack of sufficient expertise or skilled collaborators needed to complete the studies
- Not sufficient publications in the area of proposed studies
- Insufficient statistical power
- Cannot recruit the needed population

# Application dos



- Justify the research
- Include pilot data
- Address potential overlaps
- Reduce complexity
- Ensure aims are capable of advancing the field
- Choose appropriately expert personnel for a multidisciplinary team
- Link data collection and analysis to aims
- Justify the use of multiple sites and sample size
- Choose sites with access to diverse populations

# Application don'ts



- Skip any steps (eg, literature review)
- Use dense or confusing writing style
- Use appendix inappropriately
- Include untestable aims
- Include non-relevant aims or fishing expeditions
- Assume that prior collaboration is irrelevant

# Strategies for success

- Pose a clear research question
- Convince the reviewer your study is worth doing
- Sell your research plan—highlight the strengths
- Identify weaknesses and explain how you will deal with them
- Tailor your application to the funding agency
- Obtain feedback from your collaborators, consultants, and others



# NIH online resources

<https://researchmethodsresources.nih.gov/>

- Research methods resources on designing pragmatic and group randomized trials
- NIH Grants Guide: finding FOAs
- NIH Guidance on Biosketches
- NIH Peer Review
- NIH General Application Guide
- NIH Inclusion Policies for research involving human subjects

# Think through team diversity

- Rethinking Clinical Trials Website: Diversity Workshop Video Modules  
<https://rethinkingclinicaltrials.org/training-resources/diversity-workshop-video-modules/>
- NCCIH Hot Topic Webinar: Engaging Diverse Communities in Complementary and Integrative Health (recording online)
- ❖ NIH UNITE Initiative  
<https://www.nih.gov/ending-structural-racism>
- NIH continues to support increased participation of women and minority populations in

## NCCIH Hot Topic Webinar: Engaging Diverse Communities in Complementary and Integrative Health Research

**Date:** April 27, 2021 - 12:00 p.m. ET to 2:00 p.m. ET

**Location:** Virtual

COVID-19 Public health information from CDC Research information from NIH | Español NIH staff guidance on coronavirus (NIH Only)

ENDING STRUCTURAL RACISM

UNITE



file:///H:/Triennial report data/The NIH UNITE Initiative \_ National Institutes of Health (NIH).html

1/5

# Important things to do

- Read relevant Funding Opportunity Announcement multiple times
- Identify program staff at your target NIH Institute/Center and review your Specific Aims and any questions about them
- Obtain adequate feedback on the Research Plan from the entire study team