

Health Care Systems Research Collaboratory

Rethinking Clinical Trials®

Writing a Grant Application

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Essentials of Embedded Pragmatic Clinical Trials Seminar



Learn how to develop a compelling ePCT application

Important things to know

- Online resources are available for the development of pragmatic trial grant applications
- NIH has new 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 <u>27 institutes and</u> centers (IC)
- ICs award >80% of the NIH budget each year
- Each IC has a budget and a director, and typically their own review for large trials

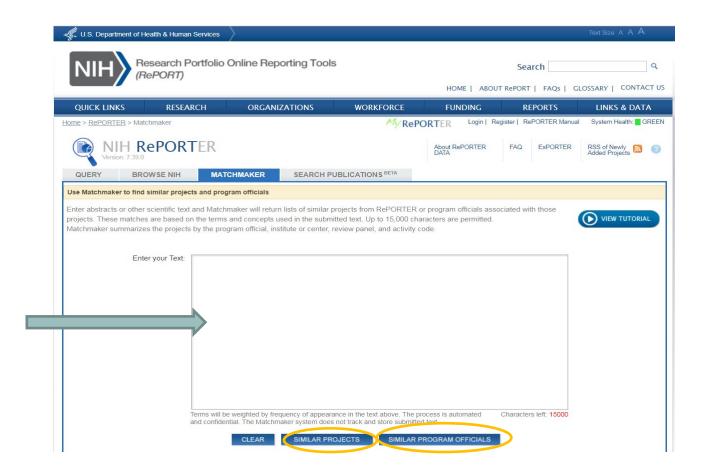


Understand NIH: find the right fit

IC mission and priorities

- Focus on a specific disease area, organ system, or stage of life
- Use the Matchmaker tool in <u>NIH RePORTER</u> for suggestions
- Talk to program officials
- Consult your mentor and colleagues

NIH RePORTER



https://projectreporter.nih.gov/reporter_matchmaker.cfm

Matchmaker results



Grant versus cooperative agreement

Under assistance relationships:

- Grants (R) are used when no substantial programmatic involvement is anticipated between the Federal agency and the recipient during performance of the assisted activity
- Cooperative agreements (U) are used when substantial programmatic involvement is anticipated between the Federal agency and the recipient during performance of the assisted activity
- Not necessarily important for developing the application

NIH Research Collaboratory: RFA-RM-16-019

Scientific contacts from participating NIH Institutes and Centers

NCCIH	Robin Boineau	NIDA	Sarah Duffy
NCI	Erica Breslau	NIDCR	Dena Fischer
NHLBI	Barbara Wells	NIDDK	Andy Narva
NIA	Marcel Salive	NIMH	Jane Pearson
NIAAA	Brett Hagman	NINDS	Robin Conwit
NIAID	Clayton Huntley	NINR	Jeri Miller
NIAMS	Chuck Washabaugh	ODP	Rachael Ballard
NICHD	Sue Marden		

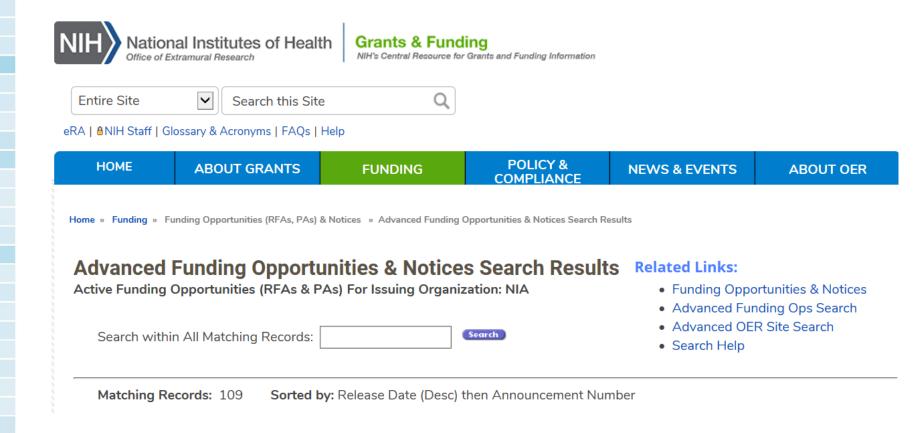
Use Matchmaker tool in <u>NIH RePORTER</u> for suggestions

Which study section?

- Mostly Institute-specific special emphasis panels
- Center for Scientific Review (CSR) Study sections
 - Health Services Organization and Delivery Study Section
 - Health services research studies that include multidisciplinary investigations of the organization, delivery, utilization, and outcomes of health services, including availability, access and acceptability; quality of care; costs and cost-effectiveness; comparative effectiveness; and financing of health care. Clinical study settings include inpatient, outpatient, sub-acute, acute, community-based, rehabilitative, and long-term care.
- An important question to discuss with NIH program staff, particularly with respect to pragmatic vs explanatory trial

Source:

Finding a funding announcement: www.grants.nih.gov



Read FOA carefully

- <u>Funding Opportunity Description</u> and Research Opportunities section is crucial, of course
- Application and Submission Information for page limits and specifics for the Aims and Research Strategy sections
- Look at <u>Application Review Information</u> for Review criteria, since they may NOT be STANDARD; they are often specific for the FOA
- READ CAREFULLY and several times

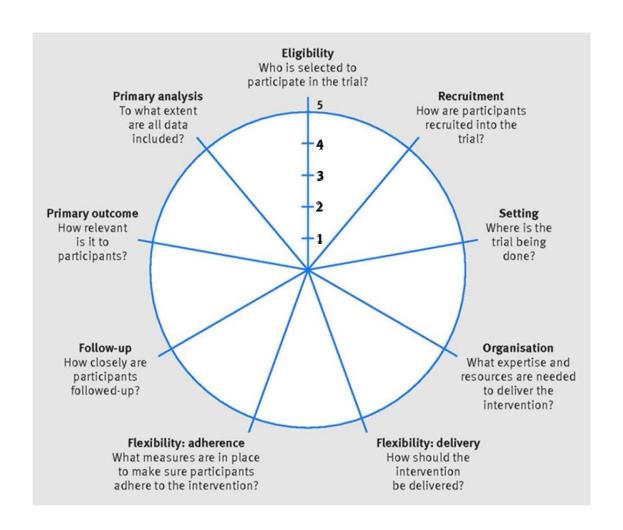
NIH review criteria—clinical trials

- Application may include study design, methods, and intervention that are not by themselves innovative but address important questions or unmet needs
- Has new questions under each of the standard criteria, in particular the Approach section should address Study Design, Data Management and Statistical Analysis.
- One Additional Review Criteria for Study Timeline

Is the study timeline described in detail, taking into account start-up activities, the anticipated rate of enrollment, and planned follow-up assessment? Is the projected timeline feasible and well justified? Does the project incorporate efficiencies and utilize existing resources (eg, CTSAs, practice-based research networks, electronic medical records, administrative database, or patient registries) to increase the efficiency of participant enrollment and data collection, as appropriate? Are potential challenges and corresponding solutions discussed (eg, strategies that can be implemented in the event of enrollment shortfalls)?

Source: https://grants.nih.gov/grants/guide/notice-files/NOT-OD-17-118.html

PRECIS-2 domains



PRECIS-2 source: Kirsty Loudon et al. BMJ 2015;350:bmj.h2147. Copyright 2015 by British Medical Journal Publishing Group. Used by permission.

Common application pitfalls

- Overly ambitious—beyond the life/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

Avoid receiving these summary statement comments

Data provided did not establish the feasibility of recruitment

The premise of the study is based on weak evidence

No adequate description of how activities in the planning phase would inform activities in the implementation phase

Concerned whether outcomes of this study would drive a change in clinical practice

Amount budgeted for a biostatistician is much too low

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

Application dos

- Justify the research
- Include pilot data
- Reduce complexity
- Ensure aims are capable of advancing the field
- Choose appropriate expert personnel
- Link data collection and analysis to aims
- Justify use of multiple sites and sample size

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

NIH research methods resources





Research Methods Resources

Home	GRT	IRGT	GRT Sample Size Calculator	Glossary	References	FAQs	Feedback

The NIH is launching a series of initiatives in 2017–2018 to enhance the accountability and transparency of clinical research. These initiatives target key points along the entire clinical trial lifecycle, from concept to results reporting.

- Expanded ClinicalTrials.gov registration and reporting policy covers all NIH-funded clinical trials, effective January 18, 2017.
- New clinical trial requirements for NIH grants and contracts with due dates on or after January 25, 2018.
- New application forms (FORMS-E) and application guide for all NIH research applications with due dates on or after January 25, 2018.
- New review criteria for clinical trial applications with due dates on or after January 25, 2018.
- New single IRB policy for research applications for multi-site studies with due dates on or after January 25, 2018.

The Research Methods Resources website provides investigators with important research methods resources to help them satisfy these new requirements. While the website currently only addresses methodological issues inherent in trials that randomize groups or deliver interventions to groups, new methods-related topics and resources will be added in the future. For a guided tour of this website, please refer to a recent Mind the Gap webinar, which presents additional information about its relevance to the new NIH requirements for clinical trials applications, a summary of the methodological issues inherent in nested study designs, and a demonstration of how to use the Group-Randomized Trials (GRT) Sample Size Calculator.

Trials that Randomize Groups or Deliver Interventions to Groups



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 with them
- Obtain adequate feedback on the Research
 Plan from the entire team

NIA resources: Blog

www.nia.nih.gov/research/blog

Pragmatic clinical trials: Testing treatments in the real world

June 07, 2017



Marcel SALIVE, Health Scientist Administrator, Division of Geriatrics and Clinical Gerontology (DGCG).

Clinical Research

Funding Opportunities

Research

Do you know the difference between an explanatory and a pragmatic clinical trial? Many researchers are familiar with explanatory clinical trials, which look at the effectiveness of a particular intervention to improve health in a controlled setting. But what makes a clinical trial pragmatic?

Blog Topics

Select Topic

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NIA FUNDING INFORMATION

