

NIH Pragmatic Trials Collaboratory Onboarding Meeting

January 8, 2025

Virtual

SUPPLEMENTAL MEETING MATERIALS

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Virtual Onboarding Meeting Agenda

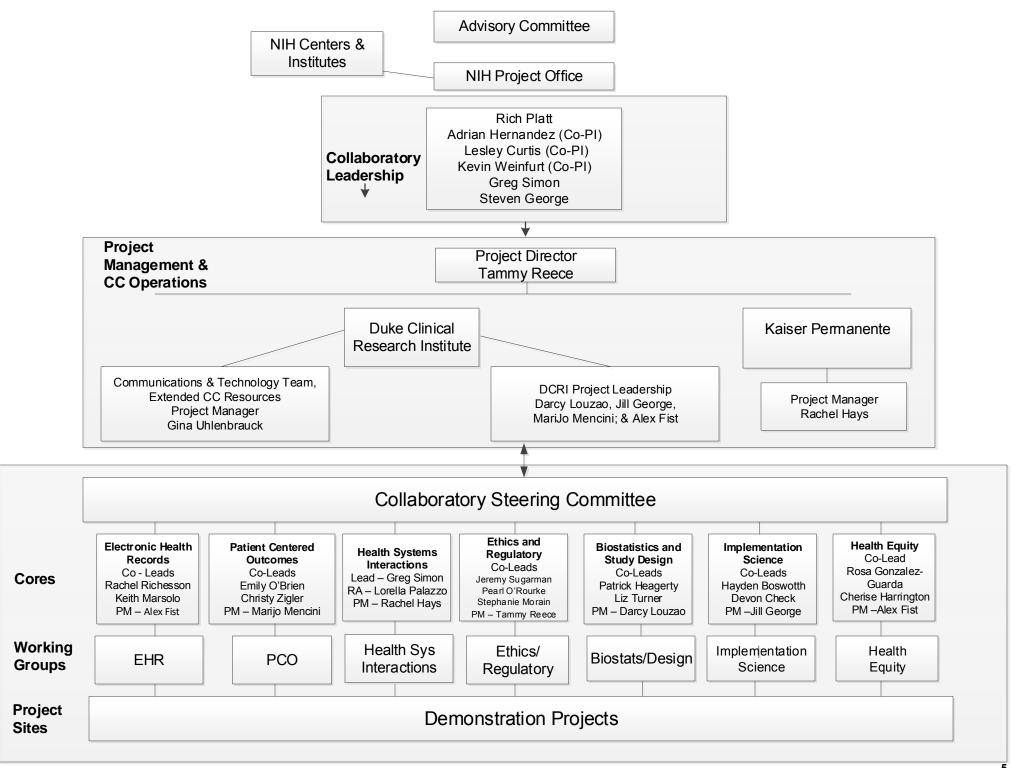
January 8, 2025 | 3:00 – 5:00 p.m. ET



Meeting Purpose: Welcome and hear from our new NIH Collaboratory Trial; provide introductions and an overview of the NIH Pragmatic Trials Collaboratory; hear from the Core Working Groups; and engage in discussion.

DURATION	TOPIC	WHO	GOAL
3:00 – 3:05 p.m.	Welcome Opening Remarks	Wendy Weber Adrian Hernandez	Review meeting goals and expectations
3:05 – 3:25 p.m.	Overview of the NIH Pragmatic Trials	Wendy Weber	Discuss what it means to be part of a cooperative agreement
	Collaboratory and a Cooperative Agreement		Reinforce the idea of openly discussing challenges
3:25 – 3:40 p.m.	Working with the	Adrian Hernandez	Give an overview of the Coordinating Center
	NIH Collaboratory Coordinating Center		Describe how NIH Collaboratory Trials work with the Coordinating Center
			Share lessons from experiences with previous trials
3:40 – 4:15 p.m.	Brief Introduction to the		Provide a brief introduction to the
5 min per Core	Core Working GroupsPatient-CenteredOutcomes	Emily O'Brien Christy Zigler	Core Working Groups Review key resources available
	Health Care Systems Interactions	Greg Simon	Describe what trials can gain from the expertise of the Core Working Groups
	Ethics and Regulatory	Pearl O'Rourke Stephanie Morain	
	Health Equity	Rosa Gonzalez-Guarda Cherise Harrington	
	 Implementation Science 	Devon Check Hayden Boswell	
	 Electronic Health Records 	Keith Marsolo Rachel Richesson	
	 Biostatistics and Study Design 	Patrick Heagerty Liz Turner	
4:15 – 4:40 p.m.	New UG3 NIH Collaboratory Trial		Project abstract and data sharing plan are in the meeting e-binder
	Overview Rachel Winer	Provide an overview of the new	
	 Self-Testing for Cervical Cancer in Priority Populations (The STEP-2 Trial) 	Amanda Petrik Jasmin Tiro	NIH Collaboratory Trial to include its status, top issues being faced, and potential barriers to successful UH3 transition
4:40 – 4:55 p.m.	Open Discussion	Adrian Hernandez	Q&A with program leadership, trial, and Core leaders
4:55 – 5:00 p.m.	Closing Remarks	Wendy Weber Adrian Hernandez	Summarize the meeting

NIH COLLABORATORY HANDOUTS



NIH PRAGMATIC TRIALS COLLABORATORY COMMUNICATIONS CHANNELS NIH INSTITUTES & CENTERS | HEAL INITIATIVE

Title: BeatPain Utah

PI:

Julie Fritz

Institution:

Title: HiLo

Myles Wolf

Institution:

Title: MOMs

Institution:

Research

Stephanie Fitzpatrick

Feinstein Institute for Medical

Duke University

PI:

University of Utah

Title: ACP PEACE

Pls: James A. Tulsky Angelo Volandes

Institution: Dana-Farber Cancer Institute

Title: Chat 4 Heart Health

Pls: Michael Ho Sheana Bull

Institution: University of Colorado

Title: I CAN DO Surgical ACP

Elizabeth Wick Genevieve Melton-Meaux Rebecca Sudore

Institution: University of California. San Francisco

Title: Nudge

Pls: Michael Ho Sheana Bull

Shruti Gohil

Michael Ho

Sara Singer

Elizabeth Wick

Sebastian Tong

Diana Burgess

Coordinating

Lesley Curtis

Kevin Weinfurt

Center Pls

Richard Skolasky

Adrian Hernandez

Stephanie Fitzpatrick

Michele Balas

Chenchen Wang

Institution: University of Colorado Title: AIM-CP

Pls: Sebastian Tong Kushang Patel

Institution: University of Washington

Title: FM-TIPS

Kathleen Sluka

Leslie Crofford

Institution: University of Iowa

Title: IMPACt-LBP

Christine Goertz Adam Goode Jon Lurie

Hrishikesh Chakrabortv

Institution: **Duke University**

Title: OPTIMUM

Natalia Morone

Institution: **Boston Medical Center**

Susan Huang Richard Platt Shruti Gohil

Title: INSPIRE

Institution: Harvard Pilgrim Health Care

Title: ARBOR-Telehealth

Johns Hopkins University

Richard Skolasky

Kevin McLaughlin

Institution:

Title: GGC4H

Stacy Sterling

Institution:

Margaret Kuklinski

University of Washington

Pls:

Pls:

Title: PRIM-ER

Pls: Corita R. Grudzen Keith Goldfeld

NIAID

NINR

NCCIH

NHLBI

NIA

NA

NA

NIA

TBD

NCCIH

Project

NCCIH

Scientist IC

Institution: NYU School of Medicine

Institute

Pls: Lynn DeBar Andrea Cook

Title: BackInAction

Institution: Kaiser Foundation Research

Title: GRACE Pls:

Ardith Doorenbos Judith Schlaeger Robert Molokie Miriam Ezenwa

Institution: University of Illinois at Chicago

Title: iPATH

Nirmish Shah

Sara Singer

Institution: Stanford University

Title: RAMP

Pls:

Diana Burgess Roni Evans Katherine Hadlandsmyth

Institution:

Center for Veterans Research and Education

COLLABORATORY

COORDINATING

CENTER

Title: TAICHIKNEE

Pls:

Chenchen Wang Helen Lavretsky Eric Roseen

Robert Saper Institution:

Tufts Medicine Tufts Medical Center

Title: BEST-ICU

Pls: Michele Balas Eduard Vasilevskis

Institution: University of Nebraska

Title: ICD-Pieces™

Medical Center

PI:

Miguel Vazquez

Institution: University of Texas Southwestern Medical Center

Title: NOHARM

Pls: Andrea Cheville

Jon Tilburt

Institution: Mayo Clinic

NIH COLLABORATORY TRIALS

NIH Collaboratory Project Project **Project** Trial PI Officer IC **Scientist** Scientist IC **NIDDK NIDDK** Miguel Vazquez Susan Mendley Kevin Chan NCCIH/NIDA **NCCIH** Margaret Kuklinski Beda Jean-Francois Elizabeth Ginexi Corita Grudzen Peter Murray **NCCIH** Marcel Salive NIA **NHLBI NHLBI** Michael Ho Larry Fine Nicole Redmond Marcel Salive NIA **NINR** James Tulsky Karen Kehl NIDDK Myles Wolf Susan Mendley NIDDK Kevin Chan **NCCIH** Basil Eldadah Lynn DeBar Lanay Mudd NIA NICHD/NCMRR Andrea Cheville Marcel Salive NIA Theresa Cruz Kathleen Sluka Charles Washabaugh **NIAMS** Joe Bonner **NINR** Natalia Morone Wendy Weber **NCCIH** Luke Stoeckel NIA Ardith Doorenbos NCCIH Beda Jean-Francois **NCCIH** Beda Jean-Francois NICHD/NCMRR Julie Fritz Karen Kehl NINR Joe Bonner Peter Murray TBD TBD Christine Goertz NCCIH Clayton Huntley

NIAID

NHLBI

NCCIH

NHLBI

NIA

NINR

NIMHD

NINR

NINR

NIAMS

Project

NCCIH

Officer IC

Karen Kehl

Lanay Mudd & Qilu Yu

Nicole Redmond

Marcel Salive

Alexis Bakos

Lanay Mudd

NA

TBD

Project

Scientist

Robin Boineau

Clayton Huntley

Mihaela Stefan

Sekai Chideva

Barbara Radziszewska

Lynne Slaughter Padgett

Charles Washabaugh

Project Officer

Wendy Weber

Shalanda Bynum

Larry Fine

Karen Kehl

Karen Kehl

NIH PROJECT OFFICE

NIH INSTITUTES AND CENTERS

NHLBI NIAID NIDDK NIAMS NCCIH NIDA NIA NINR NICHD NCMRR NIMHD

STEERING COMMITTEE Rachel Richesson

Nicole Redmond

Lesley Curtis (Chair) Adam Goode Michele Balas Corita Grudzen Alexis Bakos Katherine Hadlandsmyth Robin Boineau Cherise Harrington Patrick Heagerty Joe Bonner Hayden Bosworth Adrian Hernandez Sheana Bull Michael Ho Susan Huang Diana Burgess Clayton Huntley Shalanda Bynum Hrishikesh Chakraborty Beda Jean-Francois Kevin Chan Karen Kehl Margaret Kuklinski Devon Check Andrea Cheville Helen Lavretsky Sekai Chideya Jon Lurie Keith Marsolo Andrea Cook Kevin McI aughlin Leslie Crofford Genevieve Melton-Meaux Theresa Cruz Susan Mendley Lvnn DeBar Nancy Miller Ardith Doorenbos ∪ebra Egan Basil Eldadah Stephanie Morain Roni Evans Natalia Morone Miriam Ezenwa Lanay Mudd Lawrence Fine Peter Murray Stephanie Fitzpatrick Emily O'Brien Julie Fritz Pearl O'Rourke Elizabeth Ginexi Lynne Padgett Christine Goertz Kushang Patel Shruti Gohil Richard Platt Keith Goldfeld Barbara Radziszewska Rosa Gonzalez-Guarda

Eric Roseen Marcel Salive Robert Saper Judith Schlaeger Nirmish Shah Greg Simon Sara Singer Richard Skolasky Kathleen Sluka Mihaela Stefan Stacy Sterling Luke Stoeckel Rebecca Sudore Jeremy Sugarman Jon Tilburt Sebastian Tong James Tulsky Liz Turner Miguel Vazquez Angelo Volandes Chenchen Wang Charles Washabaugh Wendy Weber Kevin Weinfurt Elizabeth Wick Myles Wolf Qilu Yu Christy Zigler

KNOWLEDGE REPOSITORY **LEARNING HEALTH SYSTEM**

COLLABORATORY CORE WORKING GROUPS

ETHICS/REGULATORY Pearl O'Rourke'

Stephanie Morain* Jeremy Sugarman' Joe Ali

Kisha Ali Andy Avins Sheana Bull Leslie Crofford Lee Cross Laura Dember Dixie Ecklund Janel Fedler Stephanie Fitzpatrick Carole Frederico Andrew Garland Susan Gaylord Bryan Gibson Corita Grudzen Kalpana Harish Breanna Hetland Mitch Knisely Margaret Kuklinski Laurie Kunches Helen Lavretsky David Magnus Kevin McBryde Natalia Morone Tina Neill-Hudson Vasiliki Nataly Rahimzadeh Kushang Patel Tammy Reece Marguerite Robinson Judy Schlaeger Richard Skolasky Kayte Spector-Bagdady Venky Sundaram Paula Tebeau Jon Tilburt David Vulcano Chenchen Wang Kevin Weinfurt Dave Wendler Ben Wilfond

BIOSTATISTICS AND STUDY DESIGN

Patrick Heagerty*

Liz Turner*

Taliser Avery Emine Bayman John Boscardin Evan Carey Hrishikesh Chakraborty Yuchiao Chang Codruta (Cody) Chiuzan Elizabeth Colantuoni Andrea Cook Ardith Doorenbos Roni Evans Stephanie Fitzpatrick Keith Goldfeld Tom Greene Gary Grunwald Amanda Gusovsky Liz Habermann Jeph Herrin Andrew Humbert Ken Kleinman Margaret Kuklinski Karen Lasser Darcy Louzao Jon Moyer David Murray Tuhina Neogi Meg Nikolov Charles Quesenberry

Jincheng Shen Prabha Siddarth

Ludovic Trinquart

Neha Varma Angelo Volandes Jin Wang

Janice Weinberg Christopher Wickman

Alana Steffen

Brent Taylor

Yu Ru Su

Rui Wang

Xueqi Wang

HEALTH CARE SYSTEMS INTERACTIONS **Greg Simon***

Laura Mae Baldwin Matthew Bevrouty James Blum Jordan Braciszewski Sheana Bull **David Chambers** Laura Dember Rowena Dolor Matt Exline Stephanie Fitzpatrick Julie Fritz Corita Grudzen Katherine Hadlandsmyth Rachel Havs Jacob Hill Michael Ho Ken Johnson Barcey Levy Jon Lurie Timothy McAlindon Kevin McLaughlin Sarah Minteer Natalia Morone

Lorella Palazzo

Russell Poland

Kathleen Sluka

Kenneth Sands

Angelo Volandes

Elizabeth (Liza) Wick

Kiran Salman

Victor Solis

Jon Tilburt

Katie Stone

Carol Vance

Weijun Zhang

Pamela Peterson

ELECTRONIC **HEALTH RECORDS**

Rachel Richesson* Liz Amos Taliser Avery Arne Beck Srinivasan Beddhu Andy Boyd Jordan Braciszewski James Campbell Andrea Cheville Elizabeth Colantuoni Dana Dailey Kelley Daley Kim Faurot Alex Fist Stephanie Fitzgerald Guilherme del Fol Carol Geary Christine Goertz Corita Grudzen Ed Hammond Michael Ho Trevis Huff Andrea Kline-Simon Josh Lakin Devin Mann Clem McDonald Laura McLean Kathleen McTique Meg Plomondon Alice Pressman

Kiran Salman

Robert Saper

Stacy Sterling

Ludovic Trinquart

Angelo Volandes

Elizabeth (Liza) Wick

Brent Taylor

PATIENT-CENTERED OUTCOMES

Christy Zigler* Emily O'Brien* Michele Balas Emine Bayman Arne Beck M. Fernanda Bellolio Andy Boyd Andrea Cheville Leslie Crofford Susan Czajkowski Stephanie Fitzpatrick Morgan Fuoco Adam Goode Carol Greco Chris Knoepke Margaret Kuklinski Helen Lavretsky Brent Leininger Amy Loree MariJo Mencini Tuhina Neogi Kushang Patel Monica Perez Jolles Pamela Peterson Richard Skolasky Alana Steffen Stacy Sterling Anne Thackeray Jon Tilburt James Tulsky Eduard Vasilevskis Chenchen Wang Kevin Weinfurt

HEALTH EQUITY

Rosa Gonzalez-Guarda* Cherise Harrington'

Maureen Akubu-Odero Kisha Ali Jessica Lee Barnhill Sheana Bull Gaby Castro Andrea Cheville Allison Cuthel Dana Dailey Juanita Darby Stacie Daughter Graham Dore Kim Faurot Alex Fist Stephanie Fitzpatrick Julie Fritz Morgan Fuoco Christine Goertz Ronnie Horner Beda Jean-Francois Jungyoon Kim Mitchell Knisely Lance Laird Katharine Lawrence Mallory Mahaffey

Nadine Matthie

Alice Pressman

Richard Skolasky

Rebecca Sudore

Venky Sundaram

Elizabeth (Liza) Wick

Sebastian Tong

Isabel Roth

Robert Saper

Nina Siman

IMPLEMENTATION SCIENCE

Devon Check * Hayden Bosworth*

Oluwaseun Adeyemi Kristin R. Archer Lindsay Ballengee Allison Cuthel Lynn DeBar Ardith Doorenbos Stephanie Fitzpatrick Jill George Steven George Tony Gerlach Shruti Gohil Carol Greco Anna Krupp Kevin McLaughlin Brian Mittman Wynne Norton Kushang Patel Eric Roseen Isabel Roth Stacie Salsbury Edward Septimus Stacy Sterling Anne Thackeray Cindy Tofthagen Sebastian Tong Katy Trinkley

Angelo Volandes

Elizabeth (Liza) Wick

* Chair / Co-Chairs

Current as of: April 2024

NIH Collaboratory Trials Roadmap

FY24, Q4

PILOT/START-UP

- UG3 Award Date
- R01 Award Date *

AIM-CP, APA-SN, RAMP, LungSMART

TRIAL INITIATION

- UH3 Award
- Trial Registration
- Protocol Approved for Trial Initiation
- Initial IRB Approval (UH3 Phase)
- Initial IRB Approval (R01)
- Statistical Analyses Plan Finalized

ARBOR-Telehealth,
I CAN DO Surgical ACP,
TAICHIKNEE

PLANNING COMPLETED

• Did not proceed to trial initiation

BPMedTime

DATA ANALYSIS

- Database Lock
- Final Statistical Analysis

BackInAction, GGC4H

REPORTING: Internal Dissemination

- Topline Results Report
- Topline Results (or Full Results) to Health System Partners
- Topline Results to Leadership/SC and Other Partners
- Topline Results to Investigators/Sites

ACP PEACE, HiLo, INSPIRE

REPORTING: Public Dissemination

- Topline Results to Public via Press Release (if done)
- Full Results to Public
- First Presentation Results
- Main Manuscript Submitted
- Main Manuscript Accepted
- ClinicalTrials.gov Reporting

Nudge, PRIM-ER

Milestones and major activities occurring within the lifecycle of a NIH Collaboratory Trial

SITE ACTIVATION

• First Site Activated

ENROLLMENT

• First Patient Enrolled

BeatPain Utah, BEST-ICU, Chat 4 Heart Health, FM TIPS, GRACE, IMPACt-LBP, iPATH*, MOMs*

FOLLOW-UP

- Last Patient Enrolled
- Last Day for Intervention
- End of Outcome Observation Period

NOHARM, OPTIMUM

DATA AVAILABILITY

- Key Data Available
- Secondary Endpoint Data Available
- All Data Available

COMPLETED

- Manuscript published and/or
- Close out process completed with the CC

ABATE, EMBED, ICD-Pieces, LIRE, PPACT, PROVEN, SPOT, STOP CRC, TiME, TSOS

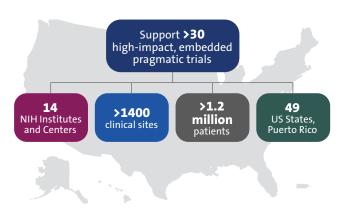




What Are Embedded Pragmatic Clinical Trials?

- · Conducted in healthcare systems
- Use existing infrastructure and streamlined procedures
- · Provide high-quality evidence
- More efficient and cost effective than traditional trials

Our Reach



NIH Partners, Past and Present



NCCIH NCI NCMRR NHLBI NIA NIAID NIAMS NICHD NIDA NIDDK NIMH NIMHD NINR NINDS OBSSR ODP

Bold denotes current partners (Grant U24AT009676)

Our Impact

We learn and share knowledge from each trial we support to advance pragmatic research methods.



Wide Influence

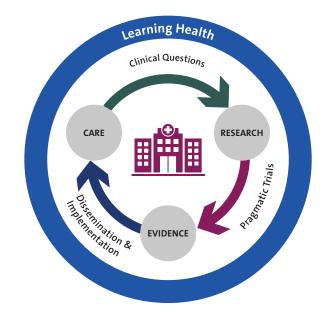
The success of the NIH Pragmatic Trials Collaboratory and its extensive resources have informed subsequent NIH initiatives for pain management and dementia care, as well as research programs in Canada and Japan.

About

Since 2012, the NIH Pragmatic Trials Collaboratory has helped rigorous trials be successful in real-world settings, creating standards for more efficient, large-scale clinical research.

Our Role

Pragmatic trials are foundational to the learning health model where ongoing evidence generation improves care. The NIH Pragmatic Trials Collaboratory is the nation's leading resource on how to conduct randomized trials embedded in healthcare delivery.



Our Support

As a Resource Coordinating Center, we provide comprehensive expertise and technical assistance to researchers conducting pragmatic trials.

Consult and provide guidance on:

- Study design and analysis
- · Regulatory issues and consent practices
- Use of real-word data sources
- Translating results into practice

Offer strategies to:

- Improve diversity, equity, and inclusion
- Engage health system partners

Assist with:

- Defining study endpoints
- · Measuring patient-centered outcomes
- Assessing feasibility of clinical workflows
- · Addressing challenges that arise

Why Do an Embedded Pragmatic Clinical Trial? The 5 Rs



Relevant Question

The question is pressing, and healthcare system leaders, patients, and front-line clinicians care about the answer.



Real-World Setting

Desire to test in diverse healthcare delivery settings with the hope of implementing findings widely.



Representative Population

Ability to recruit a population reflective of patients with the condition, including those from minoritized communities.



Routinely Collected Data

Can use data collected as part of healthcare delivery to answer the question, supplemented by data from other sources.



Rigorous Methods

Randomized research is needed to answer the question and inform changes in care, policy, or reimbursement.

About NIH Collaboratory Trials



SETTINGS

- Academic health centers
- Community clinics
- Federally qualified health centers
- For-profit health systems
- Hospitals
- Managed care organizations
- Primary care
- Specialty care

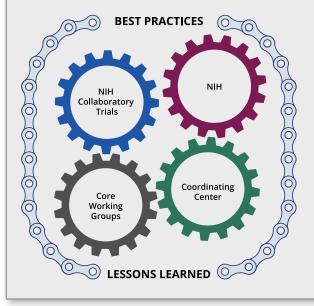


CHARACTERISTICS

- Trials in multiple therapeutic areas
- Each works across multiple health systems
- Use electronic health records, administrative, and claims data
- Strong partnerships with health systems
- Committed to sharing lessons and data

How We Learn and Share

Pragmatic research poses unique challenges that the NIH Pragmatic Trials Collaboratory has a wealth of experience navigating. Through the program's Core Working Groups, research teams are part of a community of scientists with a shared mission to help each other be successful and create generalizable knowledge about the design, conduct, and dissemination of pragmatic research.



DISSEMINATION



Grand Rounds

Weekly webinar with >86,000 all-time attendees and 50 podcast episodes with >21,000 total plays



Living Textbook

Free online textbook, continually updated and expanded, with 30+ chapters, >1800 pages, and >100 contributors



Resources and Tools

Publications, guidance documents, Quick Start Guides, checklists, etc—over 90 study tools available



Education

Provided >75 hours of presenter-led training at 12 workshops, plus video modules, self-paced learning, fellowships, and more

This work was supported within the NIH Pragmatic Trials Collaboratory under award number U24AT009676 from multiple NIH Institutes, Centers, and Offices. The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH or its HEAL Initiative.

LEARN MORE rethinkingclinicaltrials.org

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Rethinking Clinical Trials®: A Living Textbook of Pragmatic Clinical Trials



A comprehensive, authoritative guide to pragmatic clinical trials and research that engages healthcare delivery organizations as partners.

rethinkingclinicaltrials.org

WHAT IS THE LIVING TEXTBOOK?

- Free, online textbook that it is continually updated and expanded
- Contains the latest emerging knowledge on pragmatic research methods
- Developed by NIH Collaboratory experts, researchers, and partners
- Reputable, citable resource

Training Resources



Videos

Self-paced learning modules and videos featuring experts in pragmatic research



Resources

Downloadable Quick Start Guides, checklists, handouts, guidance documents, etc



Workshops

Materials including agendas, recordings, summaries, and slides

Grand Rounds

Library of our popular weekly webinar featuring timely topics in pragmatic research. Recordings, summaries, and podcast episodes available.



550 webinars



50 podcasts

TOOLS FOR TRIALS

NIH Collaboratory Trials share their data and resources publicly via the Living Textbook.

- **Study tools:** Protocols, consent forms, site materials, questionnaires, toolkits, etc
- **Datasets and documentation:** Datasets, dictionaries, analytic code, etc

Textbook Content







Launched in 2013, the Living Textbook has grown to cover all aspects of designing, conducting, and disseminating pragmatic trials.

Topics include:

Design

- · Developing a Grant
- Experimental Designs
- Building Partnerships
- Patient Engagement
- What Is a Pragmatic Trial
- Endpoints & Outcomes
- Using EHR Data
- Intervention Complexity

Data, Tools, and Conduct

- Assessing Feasibility
- Acquiring & Assessing Real-World Data
- Study Startup
- Participant Recruitment
- Monitoring Fidelity
- Clinical Decision Support
- Mobile Health

Dissemination

- Data Sharing
- Dissemination
- Implementation

Ethics and Regulatory

Privacy

- Collateral Findings
- Consent, Waiver,& Notification
- Data & Safety Monitoring
- Single IRB

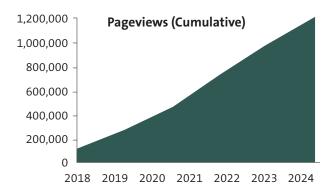
Program Information

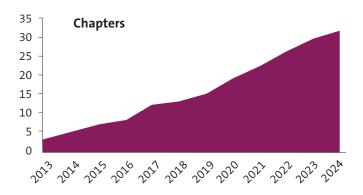
Learn about the NIH Pragmatic Trials Collaboratory, including its trials, Core Working Groups, and Coordinating Center.

- · Latest program news and interviews
- Publication updates

LAST UPDATED OCTOBER 31, 2024

Living Textbook Growth





FUN FACTS

>75,000 visitors annually



>1800 webpages





>7 days total video runtime viewed monthly

Users Around the World

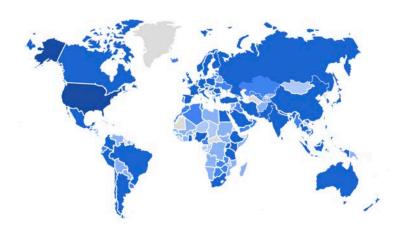
~%60 of users are in the United States

Other top countries:

- United Kingdom
- India
- Canada
- Germany
- Australia
- China
- France

Top cities:

- Washington DC
- Mumbai
- New York
- London
- · Los Angeles
- · Chicago
- Boston



DID YOU KNOW?

- Researchers at the Pharmacological Evaluation Institute of Japan translated key parts of the Living Textbook into Japanese to inform their work
- Canada's Pragmatic Trials Training Program is using the Living Textbook to help educate future trial leaders

Top Content

Our most accessed topics include:

- Cluster-randomized trials
- Endpoints and outcomes
- What is a pragmatic trial?
- Intraclass correlation
- Stepped-wedge designs
- · Real-world data sources

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Trial Information



The Living Textbook contains complete information on all NIH Collaboratory Trials, including trial details, publications, presentations, interviews, resources, and more.

LEARN MORE

rethinkingclinicaltrials.org

FOLLOW US







NIH Collaboratory Trials: Tips for Year 1

This handout features advice and lessons learned from NIH Collaboratory Trial PIs on how to manage the planning year and get the most out of program participation.

How should the team engage the Cores?

- Designate: Identify specialists on your team who can attend Core meetings then summarize and report back the information learned.
- Share openly: Actively participate and don't be afraid to air your problems to the Core—you can benefit and learn from the wisdom of a highly experienced group.
- Learn from each other: Remember other trials may have encountered a similar problem, allowing the Cores to help you navigate. If you encounter something new, the Cores may ask you to help document your experience so it can be helpful to others in the future.

"Be transparent. You can get through the issues with the Cores' help."

—Doug Zatzick, PI of TSOS

"When you have a problem someone has encountered before, the Cores can easily help. When you encounter unique problems, then your problem can be used as a test case."

-Karen Sherman, Co-PI of BackInAction

"It's really key to have that wisdom of the community. Keep them informed and we'll learn from each other."

—Miguel Vazquez, PI of ICD-Pieces

"First, leverage the Cores. The point of the Cores is 'how do we help you be successful?"

—Angelo Volandes, Co-PI of ACP PEACE

How do you balance delegating activities and staying in the loop?

Divide and conquer: Split the team across the Cores, which helps keep the co-investigators invested in the trial.

"Give some other people, whether co-investigators or people on the team, an opportunity to get more engaged in the process by having them attend the calls. It's a great way to stay abreast of everything that's happening."

—Stacy Sterling, Co-PI of GGC4H

How do you manage deliverables and milestones?

- Dependable team: Have good people on your team including an organized project manager.
- Strong site communication: Stay in regular communication with the site PIs.
- Regular PI reviews: Have established, untouchable times and dates where the Pls review everything that happens in the trial.

"You're on a tight timeline to get everything done in the UG3 year. I can't emphasize enough that the short timeline means you have to be moving guickly. It helps to have people with specific and discrete tasks, and somebody assigned to each milestone. It's those milestones that the NIH is going to consider in making the assessment for continuing."

—Sheana Bull, Co-PI of Nudge

Version: Sept 2024

NIH Pragmatic Trials Collaboratory

Enabling research embedded in healthcare delivery since 2012



Updated December 19, 2024

1



History: Initiated in 2012 via the NIH Common Fund, now transitioned to sustained funding from multiple NIH Institutes and Centers plus NIH HEAL Initiative



Goal: Strengthen the national capacity to implement cost-effective, large-scale research studies that engage healthcare delivery organizations as partners



Vision: Support the design and conduct of innovative embedded pragmatic clinical trials (ePCTs) to establish best practices and disseminate knowledge



Why Do an ePCT? The 5 Rs



Relevant Question

The question is pressing, and healthcare system leaders, patients, and front-line clinicians care about the answer.



Real-World Setting

Desire to test in diverse healthcare delivery settings with the hope of implementing findings widely.



Representative Population

Ability to recruit a population reflective of patients with the condition, including those from minoritized communities.



Routinely Collected Data

Can use data collected as part of healthcare delivery to answer the question, supplemented by data from other sources.

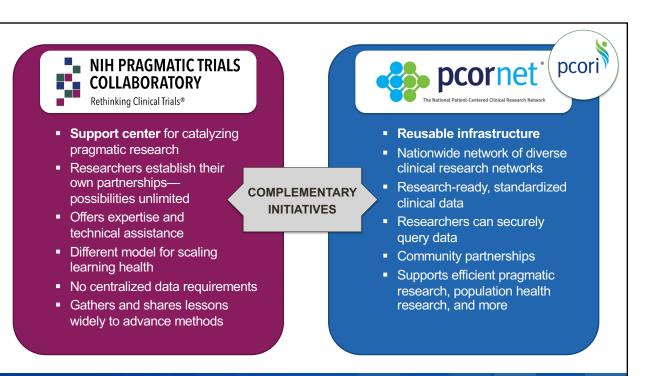


Rigorous Methods

Randomized research is needed to answer the question and inform changes in care, policy, or reimbursement.



	Clinical Trials Networks	NIH Pragmatic Trials Collaboratory	Quality Improvement
Purpose	Provides infrastructure for clinical trial conduct	Provides expertise and support for pragmatic trials (Resource Coordinating Center)	Provides data for immediate improvements in a particular healthcare delivery setting
Setting	Establishes partnerships with clinical sites, primarily academic medical centers	Researchers bring their own partnerships with diverse healthcare delivery sites	Individual health system
Population	Patients with condition recruited by trial (homogenous)	Patients with condition receiving healthcare (heterogeneous)	Patients at facility
Data	Creates new data systems for research	Leverages existing infrastructure (EHR, etc.)	Leverages existing infrastructure (EHR, etc.)
Research	Rigorous, randomized (individual) clinical trials	Rigorous, randomized (individual or cluster) pragmatic trials	Systematic and data-guided activities
Intervention	Delivered by trial staff	Delivered by health system staff	Delivered by health system stat
Outcomes	Efficacy, safety	Effectiveness, implementation	Effectiveness, implementation
Conditions	Highly controlled	Real-world	Real-world
Comparator	Placebo or control	Usual care or active comparison	Pre-post comparison

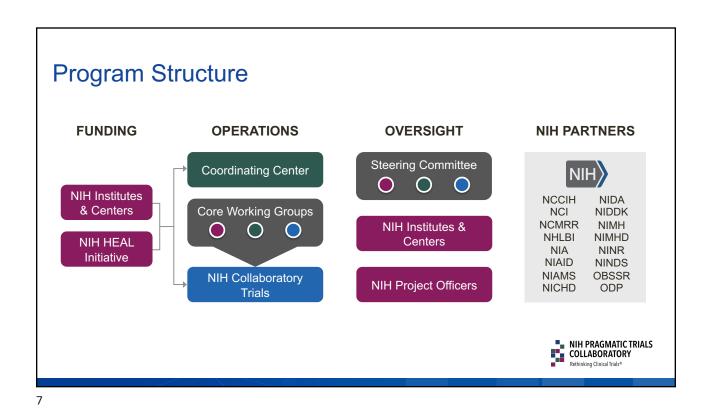


Program Success and Evolution

- Initial funding from Common Fund gave support for new ways to think about clinical research and allowed these ideas to take hold by demonstrating feasibility and rigor
- Successful transition from Common Fund to IC support showed appreciation of the program's value and uptake among broad group of ICs
- Integration with NIH HEAL Initiative extended the program's reach into a major NIH-wide program to address the overdose and pain crisis
- Informed other NIH initiatives (PMC & IMPACT) using ePCTs to address major health challenges
 - Pain Management Collaboratory (PMC) in military and Veterans healthcare systems
 - People living with dementia and their care partners (IMPACT Collaboratory)



6

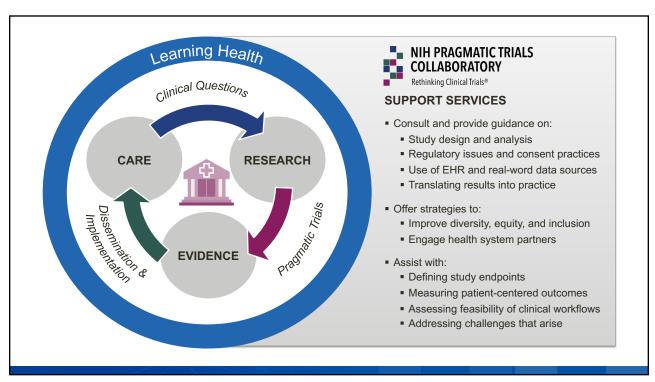


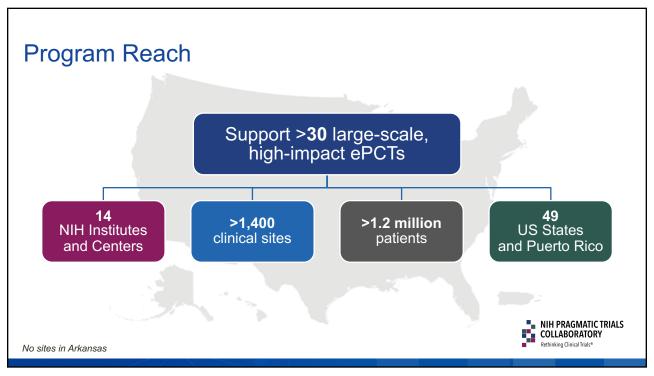
Coordinating Center

Functions

- Provide national leadership and technical expertise
- Produce, document, and disseminate standards
- Support synergy within program
- Coordinate communication and dissemination







NIH Collaboratory Trials

- ePCTs addressing questions of major public health importance
- Wide variety of therapeutic areas
- Many have phased funding
 - Planning/Startup phase



- Implementation phase



11

HEAL-Funded NIH Collaboratory Trials

- NIH HEAL Initiative® funding since 2019
- Supports ePCTs of non-opioid interventions for:
 - Treating pain
 - Improving pain management
 - Reducing reliance on opioids

Aim: Improve availability of, effectiveness of, and adherence to evidence-based, nonpharmacologic pain management





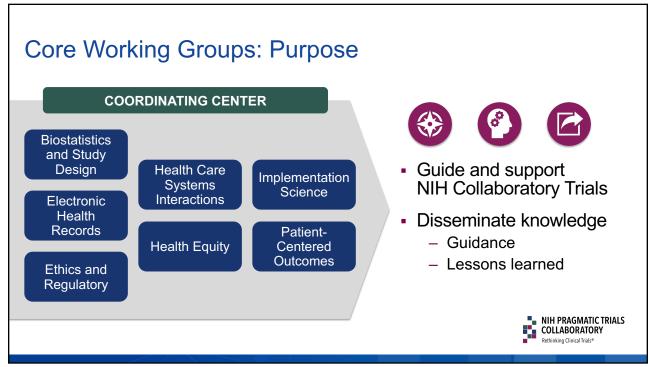
Core Working Groups

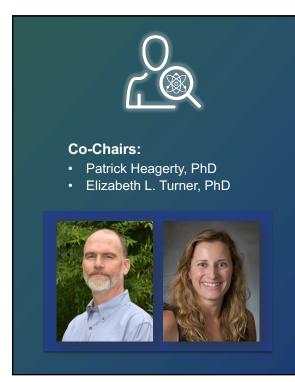
- Component of Coordinating Center focusing on key areas of ePCTs
- Led by Chairs from Coordinating Center
- Include representatives from
 - NIH Collaboratory Trials
 - NIH





13





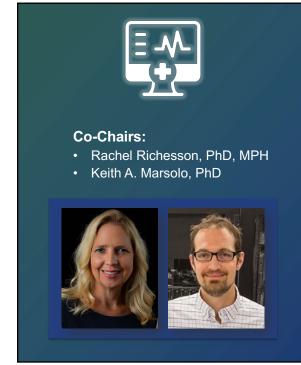
Biostatistics and Study Design Core

Mission

- Provide expertise in novel designs and methods for ePCTs
- Document new statistical issues and share knowledge
- Develop methods to address challenges



15



Electronic Health Records Core

Mission

- Help trials acquire, assess, and use real-world data
- Create tools to leverage EHRs for research across multiple health systems
- Share lessons broadly





Chair:

· Greg Simon, MD, MPH



Health Care Systems Interactions Core

Mission

- Engage those involved in healthcare delivery systems to:
 - Participate in research
 - Help design research attractive to practitioners
 - Lower administrative barriers
 - Communicate results to all parties



17



Co-Chairs:

- · Rosa Gonzalez-Guarda, PhD, MPH
- · Cherise Harrington, PhD, MPH



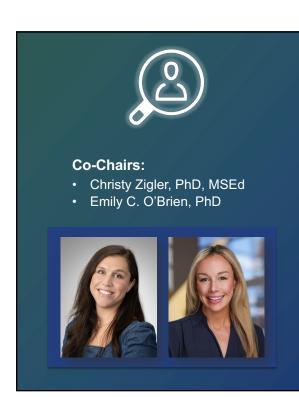


Health Equity Core

Mission

- Develop guidance for ePCTs on how to integrate a health equity lens, including:
 - Considerations for enrollment
 - Strategies for selecting outcomes
 - Tailored research methods that better suit the study population





Patient-Centered Outcomes Core

Mission

- Define best practices for:
 - Selecting, compiling, and curating appropriate PRO measures
 - Developing new instruments when needed
 - Creating efficient, quality data collection systems compatible with EHRs



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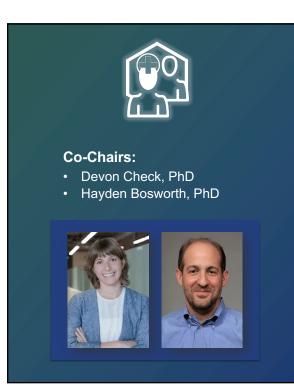
Co-Chairs: • Jeremy Sugarman, MD • Pearl O'Rourke, MD • Stephanie Morain, PhD, MPH

Ethics and Regulatory Core

Mission

- Identify areas of regulatory and ethical uncertainty for ePCTs
- Help trials navigate regulatory and ethical complexities
- Provide a framework for ethical, compliant conduct of ePCTs





Implementation Science Core

Mission

- Support trials in achieving their implementation-related research aims
- Promote the uptake and sustainability of effective interventions
- Produce guidance for conducting implementation research in ePCTs



21

Impact of Cores



>225 trial consultations

>150
publications & products





PI Testimonials

"Take the Biostats Core Working Group advice seriously—get it early and act on it early."

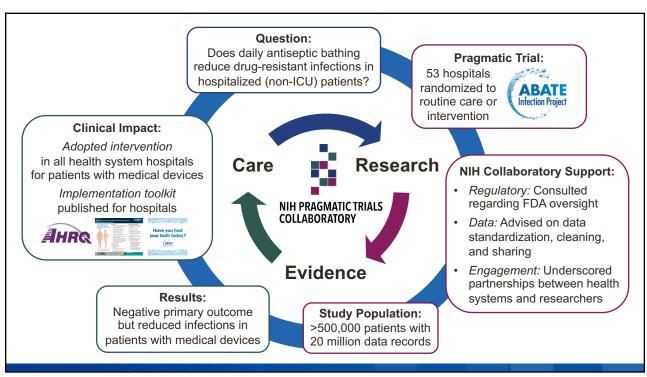
"The CC helped greatly with the selection of our secondary outcome measures."

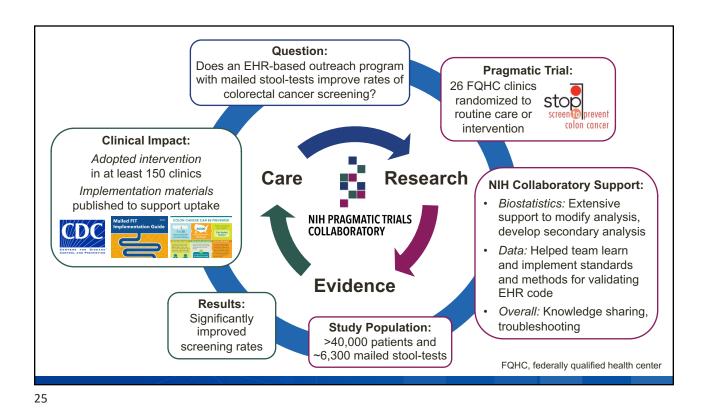
"Have as many key members of your team work closely with Collaboratory Cores."

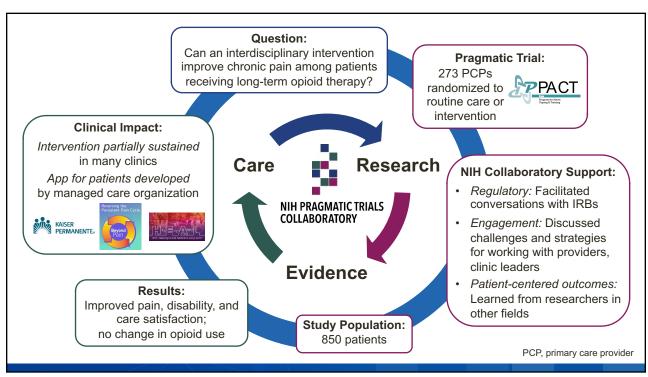
"Having adjusted our strategy prior to IRB submission based on input from the Core was likely a major reason the IRB review went so smoothly."

Examples: NIH Collaboratory Trials Informing Clinical Care









Disseminating Knowledge and Best Practices

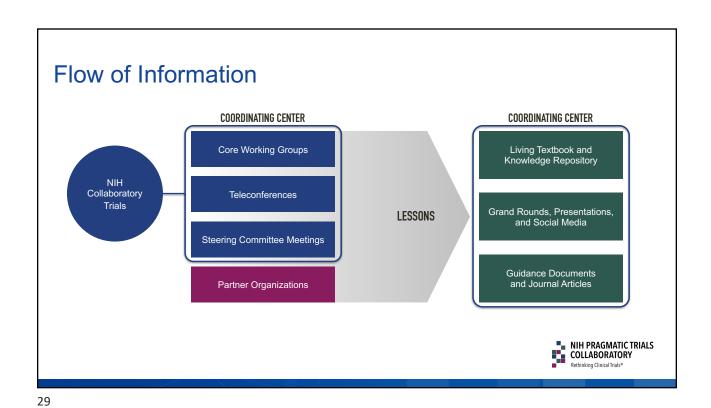


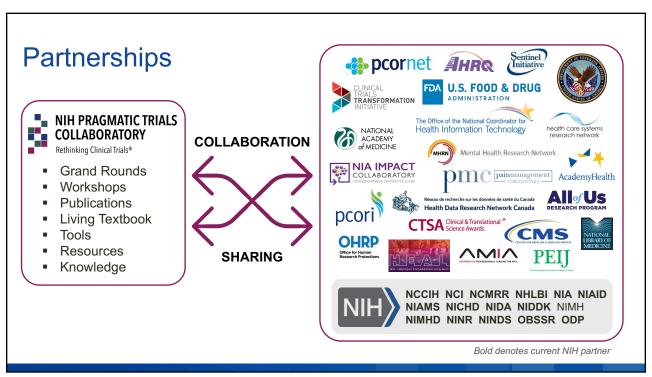
27

We've learned a lot about how to integrate research with practice...

- Using EHRs for research is complex
- Unexpected changes occur, but there are ways to mitigate their effects
- Strong partnerships with healthcare systems are essential
- Some ethical and regulatory uncertainties remain
- Many factors involved in whether an intervention will be sustained
- Sharing challenges and lessons promotes success, advances methods









Living Textbook of Pragmatic Clinical Trials

Website & Online Textbook



rethinkingclinicaltrials.org

- Program information
- Comprehensive ePCT resource
- Continuously updated and expanded
- Internal and external contributors
- Reliable and citable



Living Textbook Content and Reach

30+ chapters





>100 contributors



Design

- Developing a Grant
- Experimental Designs
- Building Partnerships
- Patient Engagement
- What Is a Pragmatic Trial
- Endpoints & Outcomes
- Using EHR Data
- Intervention Complexity

Dissemination

- Data Sharing
- Dissemination
- Implementation

Data, Tools, and Conduct

- Assessing Feasibility
- Acquiring & Assessing Real-World Data
- Study Startup

TOPICS INCLUDE:

- Participant Recruitment
- Monitoring Fidelity
- Clinical Decision Support
- Patient-Reported Outcomes
- Mobile Health

Ethics and Regulatory

- Privacy
- Consent, Waiver, & Notification
- Collateral Findings
- Data & Safety Monitoring
- Single IRB

33

Tools and Guidance Documents

CHEAT SHEETS

- Intraclass Correlation Coefficient
- Equitable Language
- Assessing Fitness-for-Use of Clinical Data for ePCTs

TOOLS & TOOLKITS

- Intervention Complexity Calculator
- Patient-Centered Outcomes Toolkit
- Data Sharing Information
- Quick Start Guides

TEMPLATES & CHECKLISTS

- Data Monitoring Committee Charter
- Reporting ePCTs Template
- · Trial Documentation Checklist
- Data Sharing Checklist

GUIDANCE DOCUMENTS

- Engagement in ePCTs
- Assessing Data Quality
- Cluster Randomized Trial Design
- Data Sharing



Learn About Our ePCTs



- Trial details
- Study snapshots
- News & Interviews
- Publications
- Presentations
- Shared resources



35

Sharing Trial Resources & Data





Completed trials share data and resources publicly

STUDY TOOLS

- Protocols
- · Consent forms
- Implementation tools
- Site materials
- Questionnaires
- Toolkits
- Ethics and regulatory documentation

DATASETS AND DOCUMENTATION

- Data dictionaries
- · Public use datasets
- Analytic code
- Computable phenotypes
- Data quality manuals
- Data request forms
- Data sharing checklists

PUBLICATIONS

- Study design papers
- · Main outcomes papers
- Qualitative research
- Other publications

Rethinking Clinical Trials® Grand Rounds



Weekly webinars

- Fridays 1-2 pm ET
- Open to public
- >500 held to date
- >150 attendees/session
- Timely, high-interest topics
- Feature NIH Collaboratory work and beyond



Podcast episodes

50 available



37

Training Activities

12 workshops





>600 attendees

45 presenters





77 hours of presenter-led training



AUDIENCES REACHED

- Academic researchers
- Funding agencies
- Investigators
- Health system leaders
- Healthcare practitioners
- Other ePCT partners











ePCT Training Resources

rethinkingclinicaltrials.org/training-resource/

- Learning modules
- Video library
- Resources (handouts, checklists, guides, etc)
- Workshop materials (slides, recordings, etc)
- Upcoming opportunities



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Receive ePCT Updates



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@Collaboratory1



Appendix: NIH Collaboratory Trials



NIH Collaboratory Trials: Completed

Project	Population	Intervention	Outcome
ABATE	Non-ICU patients	Decolonization strategies	MRSA and VRE clinical cultures
EMBED	Patients with opioid use disorder	User-centered computerized clinical decision support	Rate of emergency department–initiated buprenorphine/naloxone; referral for ongoing medication assisted treatment
ICD-Pieces	Comorbid diabetes, chronic kidney disease, hypertension	Collaborative primary care program	All-cause hospitalizations for 3 conditions
LIRE	Low back pain	Insertion of epidemiologic benchmarks in lumbar spine imaging reports	Relative value unit for spine-related interventions
PPACT	Nonmalignant chronic pain	Multidisciplinary behavioral care management	Brief Pain Inventory
PROVEN	Nursing home residents	Advance care planning video (behavioral program)	Hospitalizations; presence of advance directives
SPOT	Suicidal ideation or depression	Collaborative care behavioral program (care management & skills training)	Suicide attempts



43

NIH Collaboratory Trials: Completed (cont)

Project	Population	Intervention	Outcome
STOP CRC	Adults aged 50-75 years	Direct mail colorectal cancer (CRC) screening program (FIT kit)	CRC screening rates
TiME	Patients initiating dialysis	Dialysis session of at least 4.25 hours	All-cause mortality, hospitalization
TSOS	Traumatic injury	Collaborative care management program	PTSD checklist; PHQ-9 scale; alcohol use disorders; SF-12/36



Completed

ABATE Active Bathing to Eliminate Infection

- Cluster trial comparing 2 quality improvement strategies to reduce multidrug-resistant organisms and healthcare-related infections in non-ICU population
- 53 hospitals
- 331,584 patients



THE LANCET

Chlorhexidine versus routine bathing to prevent multidrug-resistant organisms and all-cause bloodstream infections in general medical and surgical units (ABATE Infection trial): a cluster-randomised trial



45

Completed

EMBED Pragmatic Trial of User-Centered Clinical Decision Support to Implement Emergency Department-Initiated Buprenorphine for Opioid Use Disorder

- Cluster trial testing the effect of usercentered computerized clinical decision support on rates of emergency department-initiated buprenorphine/ naloxone and referral for ongoing medication-assisted treatment in patients with opioid use disorder
- 3 health systems
- 5,047 patients



thebmi

OPEN ACCESS User centered clinical decision support to implement initiation of buprenorphine for opioid use disorder in the emergency department: EMBED pragmatic cluster randomized controlled

Edward R Melnick, ^{1,2} Bidisha Nath, ¹ James D Dziura, ^{1,2} Martin F Casey, ³ Molly M Jeffery, ⁴ Hyung Paek, ⁷ William E Soares III, ³ Jason A Hoppe, ⁶ Haseena Rajeevan, ⁷ Fangyong Li, ² Rachel M Skain, ² Lauren A Walter, ⁷ Mehul D Patel, ³ Srihari V Chari, ³ Timothy F Platts-Mills, ⁸ Erik P Hess, ⁹ Gall D'Onofioi ^{1,2}



Completed

ICD-Pieces Improving Chronic Disease Management with Pieces™

- Novel platform to test effective ways to reduce heart problems, hospitalizations & deaths in patients with multiple chronic conditions
- 94 clinical sites
- 11,000 patients





Completed

47

LIRE Lumbar Imaging with Reporting of Epidemiology

- Cluster trial evaluating whether inserting epidemiologic benchmarks into lumbar spine imaging reports reduces subsequent tests and treatments
- 98 clinical sites
- 246,289 patients



Network Open.

Original Investigation: I Imaging
The Effect of Including Benchmark Prevalence Data
of Common Imaging Findings in Spine Image Reports
on Health Care Utilization Among Adults Undergoing Spine Imaging
A Stepped-Wedge Randomized Clinical Trial
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A Stepped-Wedge Randomized Clinical Trial
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Completed

PPACT Collaborative Care for Chronic Pain in Primary Care

- Mixed-methods cluster trial evaluating integration of multidisciplinary services within the primary care environment to improve chronic pain management
- 3 regional health systems
- 2,000 patients





Automating Collection of Pain-Related Patient-Reported Outcomes to Enhance Clinical Care and Research

Asial Owen-Smith, PhD, SM^{1,2}, Meghan Mayhew, MPH, Michael C, Leo, PhD¹, Alexanda Vaga, MPH, Linday Benes, PhD, RN, CNS^{1,1}, Alison Bonifay, MA, LPC¹, and Lynn DeBar, PhD, MPH²



49

Completed

PROVEN Pragmatic Trial of Video Education in Nursing Homes

- Evaluating the effectiveness of advance care planning video shown in nursing homes of 2 large healthcare systems
- 359 nursing homes
- 211,469 patients



JAMA Internal Medicine | Original Investigation
Advance Care Planning Video Intervention
Among Long-Stay Nursing Home Residents
A Pragmatic Cluster Randomized Clinical Trial
Susn-LMitchell MD, MPH, Angelo E, Volander, MD, MPH, Rose Gutman, PHD, Pedro L, Gozalo, MSc, PhD, Jessica A, Ogarek, MS, Lacry Loomer, MSPH;
Ellen M, MCcreedy, PHD, Roorius Zhu, MSC, Vivenet Mar, PHD



Completed

SPOT Suicide Prevention Outreach Trial

- Collaborative care model to test treatments intended to reach large groups of adult patients who have serious thoughts of suicide
- 4 clinical sites
- 18,644 patients



Research

JAMA | Original Investigation

Effect of Offering Care Management or Online Dialectical Behavior Therapy Skills Training vs Usual Care on Self-harm Among Adult Outpatients With Suicidal Ideation A Randomized Clinical Trial

Gregory E. Simon, MD, MPH; Susan M. Shortreed, PhD; Rebecca C. Rossom, MD, MS; Arne Beck, PhD; Gregory N. Clarke, PhD; Ursula Whiteside, PhD; Julie E. Richards, MPH, PhD; Robert B. Penfold, PhD; Jennifer M. Boggs, PhD, MSW; Julia Smith, MS



51

Completed

STOP CRC Strategies and Opportunities to Stop Colorectal Cancer

- Cluster trial testing a culturally tailored, healthcare system—based program to improve CRC screening rates in community-based collaborative network
- 30 clinical sites
- 62,155 patients



JAMA Internal Medicine | Original Investigation

Effectiveness of a Mailed Colorectal Cancer Screening Outreach Program in Community Health Clinics The STOP CRC Cluster Randomized Clinical Trial

Gloria D. Coronado, PhD; Amanda F. Petrik, Ms; William M. Vollmer, PhD; Stephen H. Taplin, MD, MPH; Erin M. Keast, MPH; Scott Fields, MD; Beverly B. Green, MD, MPH



Completed

TIME Time to Reduce Mortality in End-Stage Renal Disease

- Cluster trial testing whether a longer hemodialysis session can improve survival & quality of life for patients with kidney failure who require chronic treatment with dialysis
- 256 clinical sites
- 7,053 patients





The TiME Trial: A Fully Embedded, Cluster-Randomized, Pragmatic Trial of Hemodialysis Session Duration

Laura M. Dember, ^{1,2} Eduardo Lacson, Jr., ³ Steven M. Brunelli, ⁴ Jesse Y. Hsu, ⁵ Alfred K. Cheung, ⁶ John T. Daugirdas, ⁷ Tom Greene, ⁶ Casba P. Kovesch, ⁹ Ç Dana C. Misduin, ¹⁰ Paul I. Thadhan, ^{11,12} Wolfgang Winkelmayer, ¹³ Susan S. Ellenberg, ⁵ Denise Cifelli, ¹⁴ Rosemary Madigan, ¹⁴ Amy Young, ⁴ Michael Argeletti, ³ Rebecca L. Wingard, ⁷ Christina Kahn, ⁷ Allel R. Nissenson, ^{15,16} Franklin W. Maddux, ³ Kevin C. Abbott, ⁷ and J. Richard Landis



53

Completed

TSOS Trauma Survivors Outcomes and Support

- Stepped-wedge cluster trial testing innovative intervention for patients with PTSD and comorbidity
- 25 level 1 trauma centers
- 960 patients



JAMA Surgery | Original Investigation

Stepped Collaborative Care Targeting Posttraumatic Stress Disorder Symptoms and Comorbidity for US Trauma Care Systems A Randomized Clinical Trial

Douglas Zatzick, MD; Gregory, Jurkovich, MD; Patrick Heagerty, PhD; Joan Russo, PhD; Doyanne Darnell, PhD; Lea Parker, BA; Michelle K. Roberts, MPH; Rödfil Moodliur, BA; Allison Engstrom, MSW; Jim Wang, PhD; Eileen Bulger, MD; Lauren Whiteside, MD; Deepika Nehra, MD; Lawrence A. Palinkas, PhD; Kathleen Moloney, BA; Ronald Maker, MD



NIH Collaboratory Trials: Planning Phase

Project	Population	Intervention	Outcome
LungSmart	Current and former smokers, aged 50-80	Telehealth tools designed to engage people in lung cancer screening	Lung cancer screening completion



Planning

55

LungSmart Population Health Management Approaches to Increase Lung Cancer Screening in Community Health Centers

- Patient-level randomized trial
- Evaluating the effectiveness of digital and telehealth tools to increase the reach of lung cancer screening among people who get care at community health centers
- 14 federally qualified health centers in Utah operating ~50 primary care clinics





R01 NIH Collaboratory Trials

Project	Population	Intervention	Outcome
iPATH	Patients with type 2 diabetes from health disparity populations	the state of the s	Reduction in patients with poorly controlled diabetes (A1c>9%) at 12 and 24 months
MOMs Chat & Care Study	Black birthing people		Incidence of severe maternal morbidity at time of labor and delivery and related hospital admissions at 1-month and 1-year postpartum



57



R01 Trial

iPATH Implementing Scalable, PAtient-centered Team-based Care for Adults with Type 2 Diabetes and Health Disparities

- Hybrid type 2 effectiveness implementation study, including a stepped-wedge cluster randomized trial
- Evaluating whether an innovative multi-level, multi-component, technology-enabled practice transformation strategy can improve outcomes for patients with type 2 diabetes from health disparity populations
- 8 federally qualified health centers





R01 Trial

MOMs Chat & Care Maternal OutcoMes Program: Testing Integrated Maternal Care Model Approaches to Reduce Disparities in Severe Maternal Morbidity

- Testing the effectiveness of an integrated care model approach at 2 different levels of intensity to facilitate timely, appropriate care for high-risk Black birthing people and reduce risk for severe maternal morbidity
- Largest healthcare provider in New York
- 674 expected patients





59

NIH Collaboratory Trials: Implementation Phase

Project	Population	Intervention	Outcome
ACP PEACE	Patients with advanced cancer	Clinician communication skills training and patient video decision aids for advanced care planning	Advance care plans completion; medical orders for resuscitation preferences; palliative care consultations; hospice use
BEST-ICU	Critically ill adults	Strategies to increase adoption of the ABCDEF bundle, a mechanical ventilation liberation and symptom management approach	Implementation (primary) and clinical (secondary) effectiveness outcomes
Chat 4 Heart Health	Patients from Federally Qualified Health Centers with sub-optimal control of their cardiovascular (CV) risk factors	Multilevel intervention leveraging cellphone-based text messages	Global CV health and control of CV risk factors (e.g., hypertension, diabetes)
GGC4H	Parents of early adolescents	Anticipatory guidance curriculum	Behavioral health problems; health service utilization
HiLo	Patients undergoing hemodialysis	Liberalizing serum phosphate target	Rate of hospitalization
I CAN DO Surgical ACP	Older adults undergoing major elective survey	Patient-facing advance care planning (ACP) tool	ACP completion rates and patient engagement with ACP

NIH Collaboratory Trials: Implementation Phase (cont)

Project	Population	Intervention	Outcome
IMPACt-LBP	Adults with low back pain	Primary Spine Practitioner (PSP) Model using doctors of chiropractic and physical therapists as first-line providers	Improve physical function, decrease pain, decrease opioid prescriptions, improve patient satisfaction, and decrease costs and utilization of healthcare services when compared with usual medical care
INSPIRE	Non–critically ill hospitalized patients with abdominal infections or skin and soft tissue infections	Predictive algorithm integrated into the computerized provider order entry system, plus audit and feedback	Reduction in prescribing of unnecessary extended- spectrum antibiotics while maintaining good clinical outcomes as measured by length of stay and transfer to an intensive care unit
Nudge	Patients with chronic CV conditions	Text messages and chat bot	Adherence to CV medications
PRIM-ER	Older adults (>65 years)	Palliative care education; simulation- based workshops; clinical decision support; provider audit and feedback	Healthcare utilization and survival
TAICHIKNEE	Patients with knee pain due to osteoarthritis	Remotely delivered web-based Tai Chi intervention	Physical health (including knee-related pain and function), mental health, and healthcare utilization



61

Implementation

ACP PEACE Advance Care Planning: Promoting Effective and Aligned Communication in the Elderly

 Cluster trial testing whether clinician communication skills training and patient video decision aids will increase advance care plan completion in patients >65 with advanced cancer



- 36 oncology clinics across 3 health systems
- 4,500 expected patients



BEST-ICU Behavioral Economic and Staffing Strategies to Increase Adoption of the ABCDEF Bundle in the ICU

- 3-arm stepped-wedge, clusterrandomized trial to evaluate 2 strategies grounded in behavioral economic and implementation science theory to increase adoption of the ABCDEF bundle, a mechanical ventilation liberation and symptom management approach, in critically ill adults
- 12 ICUs from 3 safety net hospitals
- 8,100 expected patients



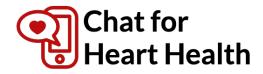
- Assess, Prevent and Manage Pain
- Both SAT and SBT
- Choice of Analgesia and Sedation
- Delirium: Assess, Prevent and Manage
- Early Mobility and Exercise
- Family Engagement and Empowerment

63

Implementation

Chat 4 Heart Health Using Artificially Intelligent Text Messaging Technology to Improve AHA's Life's Essential 8 Health Behaviors

- Patient-level randomized trial to evaluate the implementation and effectiveness of 3 different automated patient communication approaches for self-management support to improve control of cardiovascular disease risk factors
- Federally Qualified Health Centers in 3 health systems
- 6,000 expected patients



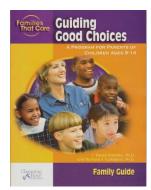


GGC4H Guiding Good Choices for Health

 Cluster trial testing whether an anticipatory guidance curriculum for parents of early adolescents will reduce behavioral health problems and health service utilization



- 3 health systems
- 72 pediatricians and 4,500 families expected





65

Implementation

HiLO Pragmatic Trial of Higher vs. Lower Serum Phosphate Targets in Patients Undergoing Hemodialysis

 Cluster trial testing whether less stringent control of serum phosphate levels will yield noninferior rates of all-cause hospitalization in patients with end-stage renal disease undergoing hemodialysis



- >100 dialysis facilities
- 4,400 expected patients



I CAN DO Surgical ACP Improving Completion, Accuracy, and Dissemination

of Surgical Advanced Care Planning

- Patient-level randomized trial to evaluate a system-based approach to help older adults undergoing elective surgery engage in advance care planning
- 3 health systems





67

Implementation

IMPACt-LBP Implementation of the American College of Physicians Guideline for Low Back Pain

- Refine and implement a multidisciplinary collaborative care model for low back pain
- Evaluate the effectiveness of this care model compared to usual medical care for low back pain
- 3 academic healthcare systems







INSPIRE INtelligent Stewardship Prompts to Improve Real-time Empiric Antibiotic Selection for Patients

 2 cluster randomized trials using personalized clinical decision support to improve judicious antibiotic prescribing for non-critically ill patients hospitalized with abdominal infections or skin and soft tissue infections



90,000 expected patients



69

Implementation

Nudge Personalized Patient Data and Behavioral Nudges to Improve Adherence to Chronic Cardiovascular Medications

- Patient-level randomized pragmatic trial comparing the effects of digital interventions (text messages and chat bot) on medication adherence in patients with chronic cardiovascular conditions
- 3 health systems







PRIM-ER Primary Palliative Care for Emergency Medicine

- Cluster trial testing the effects of implementing primary palliative care in emergency medicine on healthcare utilization and survival
- 35 emergency departments across
 18 health systems





71

TAICHIKNEE Remote Tai Chi for Knee Osteoarthritis:

Implementation

Remote Tai Chi for Knee Osteoarthritis: an Embedded Pragmatic Trial

 Compare the effects of a remotely delivered web-based Tai Chi intervention versus routine care for patients with knee pain due to osteoarthritis



- 20-25 clinics across 4 health systems
- 600 expected patients



HEAL Trials: Planning Phase

Project	Population	Intervention	Outcome
AIM CP	Rural-dwelling patients with chronic pain	Nurse care management model incorporating care coordination, cognitive behavioral therapy, and a remotely delivered exercise program	Pain interference, physical functioning, mental health, treatment satisfaction, sleep, pharmacologic treatments, and healthcare utilization
APA-SM	Rural-dwelling patients with chronic musculoskeletal pain	4-week auricular point acupressure self- management program delivered via mobile app	Pain intensity, pain interference, and function; cost-effectiveness
RAMP	Rural-dwelling Veterans with chronic pain	Telehealth intervention with multiple evidence- based complementary and integrative health approaches for chronic pain	Pain interference at 13 and 26 weeks; opioid use



HEAL Trial

73

APA-SM Personalized Auricular Point Acupressure for Chronic Pain Self-Management in Rural Populations

- Evaluating an auricular point acupressure self-management program for rural populations with chronic musculoskeletal pain
- Hybrid implementation-effectiveness trial





AIM-CP Adapting and Implementing a Nurse Care Management Model to Care for Rural Patients with Chronic Pain

- Adapting and test a nurse care management model to provide comprehensive coordinated care for patients with chronic pain in rural communities
- 6 health systems
- 416 expected patients





HEAL Trial

75

RAMP Reaching Rural Veterans: Applying Mind-Body Skills for Pain Using a Whole Health Telehealth Intervention

- Hybrid type 2 effectivenessimplementation trial evaluating a telehealth intervention with multiple evidence-based complementary and integrative health approaches for chronic pain
- VA health system
- 500 expected patients (rural-dwelling Veterans)





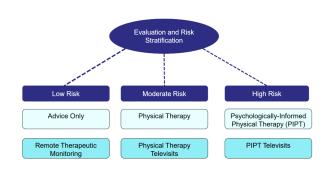
HEAL Trials: Implementation Phase

Project	Population	Intervention	Outcome
ARBOR- Telehealth	Rural-dwelling patients with chronic low back pain	Risk-stratified telerehabilitation model	Change in low back pain-related disability and opioid use after 8 weeks
BackInAction	Older adults with low back pain	Standard and enhanced 12-week courses of acupuncture	Back-related function at 26 weeks; cost-effectiveness
BeatPain Utah	Adults with back pain in federally qualified health centers in Utah	Brief pain teleconsult and phone-based physical therapy	Pain management; reduction of disparities; evaluation of implementation strategies
FM-TIPS	Fibromyalgia	Addition of transcutaneous electrical nerve stimulation (TENS) to physical therapy	Fibromyalgia symptoms; adherence to therapy; meeting therapeutic goals; medication use
GRACE	Patients with sickle cell disease	Acupuncture and guided relaxation	Pain control; effective treatment sequence; evaluation of implementation strategies
NOHARM	Postoperative pain	EHR-embedded tools to aid shared decision making about pain management	Postoperative opioid use, pain, function
OPTIMUM	Chronic low back pain	Group-based mindfulness in outpatient clinical settings	Pain, physical, and psychological function; opioid prescriptions for chronic low back pain

77

ARBOR-Telehealth Advancing Rural Back Pain Outcomes through Rehabilitation Telehealth

- Comparing the effectiveness of a risk-stratified telerehabilitation model to improve outcomes in patients with chronic low back pain in rural communities
- Primary care clinics in Maryland
- 434 expected patients





HEAL Trial

BackInAction Pragmatic Trial of Acupuncture for Chronic Low Back Pain in Older Adults

- Evaluating the safety and effectiveness of acupuncture in older adults with chronic low back pain
- 4 performance sites
- 828 expected patients





HEAL Trial

79

BeatPain Utah Nonpharmacologic Pain Management in Federally Qualified Health Centers Primary Care Clinics

- Testing the feasibility of a telehealth strategy that provides a brief pain teleconsult along with phone-based physical therapy
- Federally Qualified Health Centers in Utah





NIH PRAGMATIC TRIALS **COLLABORATORY** Rethinking Clinical Trials

FM-TIPS Fibromyalgia TENS in Physical Therapy Study

- Testing the feasibility and effectiveness of adding TENS to treatment of patients with fibromyalgia in a real-world physical therapy practice setting
- 5 physical therapy health systems





HEAL Trial

81

GRACE Hybrid Effectiveness-Implementation Trial of Guided Relaxation and Acupuncture for Chronic Sickle Cell Disease Pain

- Testing the effectiveness of guided relaxation and acupuncture to improve pain control and determine the most appropriate and effective treatment sequence for patients with sickle cell disease pain
- 3 health systems







NOHARM Nonpharmacologic Options in Postoperative Hospital-based and Rehabilitation Pain Management

- Testing the feasibility of EHRembedded patient- and clinicianfacing decision support for nonpharmacologic pain care after surgery
- 4 health systems





HEAL Trial

83

OPTIMUM Group-Based Mindfulness for Patients With Chronic Low Back Pain in the Primary Care Setting

- Evaluating effectiveness of a groupbased mindfulness intervention for patients with chronic low back pain in a usual care setting
- 3 health systems
- 450 expected patients









Onboarding Data and Resource Sharing Informational Document

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 ${\it Prepared by: NIH Collaboratory Coordinating \ Center}$

Version: April 7, 2022

Purpose

This document is meant to provide background and information to assist clinical investigators in developing data sharing plans and is to be used along with the accompanying Data Sharing Plan Development Worksheet. This document contains information on data sharing requirements for the NIH Pragmatic Trials Collaboratory, NIH, and medical journals; information on data sharing mechanisms and platforms; and examples from NIH Collaboratory Demonstration Projects.

If you have questions, feedback or suggestions regarding data sharing, please contact us at nih-collaboratory@dm.duke.edu.

Data Sharing Requirements for the NIH Pragmatic Trials Collaboratory, NIH, and Medical Journals

Please note that these policies are current as of the date of this document. Refer to the individual websites for the latest information and full requirements.

NIH Pragmatic Trials Collaboratory Data Sharing Policy

- "1. Collaboratory investigators will each share, at a minimum, a final research data set upon which the accepted primary pragmatic trial publication is based.
- 2. The Collaboratory Steering Committee recognizes that sharing data derived from clinical care in studies performed in partnership with health care systems may, under some situations, require precautions in addition to those regarding patient confidentiality, to protect specific interests of collaborating health care systems, facilities or providers. Precautions such as allowing data sharing in more supervised or restricted settings, such as access to researchers who agree to limited preapproved research goals, may be appropriate to address these needs in implementing this data sharing policy.
- 3. Consistent with NIH policy and guidance, Collaboratory investigators will choose the least restrictive method for sharing of research data that provides appropriate protection for participant privacy, health system privacy, and scientific integrity.
- 4. Collaboratory investigators will work with NIH to implement this data sharing policy, to ensure the appropriate administrative processes and technical infra- structure are in place to support timely data sharing for the Collaboratory."

From: NIH Health Pragmatic Trials Collaboratory Data Sharing Policy

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NIH Data Sharing Policy

"Key Points

- 1. This Policy applies to all human data in the NIH IRP, including the NIH Clinical Center as well as NIH Institutes and Centers.
- 2. A <u>Data Sharing Plan</u> (PDF File) must be developed for any research involving human data.
- 3. Data Sharing Plans will be included in the institute scientific review process for research involving human data.
- 4. The Institute Scientific Director (SD) or their designee is responsible for approving all Data Sharing Plans.
- 5. All IRP-supported clinical investigators are expected to develop protocols and consent processes/forms to enable broad data sharing for secondary research consistent with this Policy.
- 6. Sharing data for secondary research purposes shall comply with human subjects research regulations and procedures, if applicable.
- 7. All IRP investigators are encouraged to deposit data in publicly accessible research repositories for sharing to the extent feasible and appropriate.
- 8. This Policy is effective as of October 1, 2015. Any intramural research involving human data undergoing scientific review after October 1, 2015 must have a data sharing plan."

From the <u>NIH Intramural Human Data Sharing Policy</u> (updated December 2015). For more information, see <u>NIH Data Sharing Policy and Implementation Guidance</u>.

Medical Journal Data Sharing Requirements

The International Council of Medical Journal Editors (<u>ICMJE</u>) requires that 7 key elements be addressed in the data sharing statement:

- 1. "Will individual participant data be available (including data dictionaries)?
- 2. What data in particular will be shared?
- 3. What other documents will be available?
- 4. When will data be available (start and end dates)?
- 5. With whom will data be shared?
- 6. For what types of analyses will data be shared?
- 7. By what mechanism will the data be made available?"

From: International Council of Medical Journal Editors' <u>Recommendations for the Conduct</u>, <u>Reporting, Editing, and Publication of Scholarly Work in Medical Journals</u> (updated December 2018).

Table 1 summarizes data sharing requirements of select academic journals and publishers to give researchers an idea of what may be required for publication.

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Table 1. Data Sharing Requirements of Select Academic Journals and Publishers				
Journal/Publisher	Requirements	Recommended Repository		
<u>BMJ</u>	Requires data from clinical trials to be made available upon request and requires a data sharing statement.	For clinical data, BMJ recommends controlled access repositories, such as clinicalstudydatarequest.com, the YODA project, or Vivli.		
<u>Elsevier</u>	Encourages submission of a data paper, uploading data to a repository, or a data sharing statement stating why data can't be shared.			
<u>Nature</u>	Authors are required to make materials, data, code, and associated protocols promptly available to readers without undue qualifications.	Unstructured repositories like <u>figshare</u> and <u>Dryad</u> if no structured public repositories exist.		
	Restrictions on the availability of data must be disclosed upon submission.			
<u>NEJM</u>	Data sharing statement	Aligned with ICJME		
<u>PLOS</u>	Data sharing statement	<u>Dryad</u>		
Wiley	Data sharing statement	Mendeley Data		

Examples from NIH Pragmatic Trials Collaboratory Demonstration Projects

NIH Collaboratory Demonstration Project investigators explored the risks to providers and health systems of sharing data. In Table 2 we describe the risks, the steps taken to mitigate the risks, and the data sharing structure that will be used for each of these pragmatic trials.

Table 2. NIH Pragmatic Trials Collaboratory Data Sharing Plans*					
Study name	Risks to providers or health systems	Data sharing structure	Steps to mitigate risks to providers or health systems		
ABATE Active Bathing to Eliminate Infection	Data regarding infection rates could be used for inappropriate comparisons of facilities or with public reports. Detailed	Private enclave managed by study team	Potential users may propose specific queries. Only query results (not individual data) will be shared.		

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Table 2. NIH Pragmatic Trials Collaboratory Data Sharing Plans*					
	information regarding facilities and utilization patterns could reveal proprietary business information.				
ICD-Pieces Improving Chronic Disease management with Pieces	Data regarding patterns of care could be used for biased or inappropriate comparisons across facilities or health systems. Given different specifications, comparison to publicly reported quality measures would be misleading.	Private archive managed by NIDDK	Patient-level data will be de- identified and stored in aggregate database. Identifiers for healthcare system, primary practice and patients will be removed. Use of aggregate dataset will be governed by authorized agreements with NIDDK.		
LIRE Lumbar Image Reporting with Epidemiology	Data regarding treatment patterns and resource use could be used for inappropriate or biased comparisons across health systems and could reveal proprietary health system business information.	Private archive managed by study team	Patient-level datasets will de- identified by health systems, clinics, providers, and patients. Investigators will authorize release to specific users for specific purposes.		
PPACT Pain Program for Active Coping and Training	Data on opioid prescribing patterns could be misused for inappropriate comparisons of providers or facilities.	Public archive of a modified dataset	Public-use dataset will not include facility or health system identifiers, characteristics or prescribing/referral practices of individual providers, or patient-level data on race or ethnicity.		
SPOT Suicide Prevention Outreach Trial	Data on suicide attempt rates could be used for biased or inappropriate comparisons of suicide attempts or suicide mortality across health systems.	Public archive of a modified dataset	Public-use dataset will not include indicator for health system.		

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Table 2. NIH Pragmatic Trials Collaboratory Data Sharing Plans*				
STOP CRC Strategies and Opportunities to Stop Colon Cancer in Priority Populations TiME Time to Reduce Mortality in End- Stage Renal Disease	Data on screening rates could be misused for inappropriate or biased comparisons of performance across clinics or inaccurate comparisons with public quality measures. Data regarding mortality could be misused for inappropriate or biased comparisons of facilities or healthcare systems. Detailed data regarding patterns of care could reveal proprietary business information.	Private archive managed by study team Private archive managed by NIDDK	De-identified patient-level data will be available, with permissions and data use agreements in place. Data use agreements will limit to specific research uses and require destruction after authorized analyses are completed. De-identified patient-level data that are aggregated across provider organizations will be stored at the NIDDK Central Repository. Facility identifiers, dialysis provider organization identifiers, and data elements that are unique to one of the dialysis providers will be removed. Data will be made available through formal request and a data use agreement between the requestor and the NIDDK.	
TSOS Trauma Survivors Outcomes and Support	Data regarding baseline patient characteristics and study outcomes could be used for biased or inappropriate comparisons of care in participating facilities.	Private archive managed by study team	De-identified patient level data will be provided, with priority given to research that will effect trauma care systems nationwide and Collaboratory investigators.	

^{*}Assumes HIPAA-compliant patient de-identification for all patients and a data use agreement where appropriate.

Table from: Simon G, et al. Data Sharing and Embedded Research: Data Sharing Solutions for Embedded Research. In: *Rethinking Clinical Trials: A Living Textbook of Pragmatic Clinical Trials*. Bethesda, MD: NIH Pragmatic Trials Collaboratory. Available at: https://rethinkingclinicaltrials.org/chapters/dissemination/data-share-top/data-sharing-solutions-for-embedded-research/. Updated December 20, 2021. DOI: 10.28929/070.

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Data Sharing Mechanisms

In Table 3, we describe different technical structures for data sharing and considerations that may assist researchers in selecting the appropriate mechanism for their trial. For more details, see the Living Textbook Chapter on Data Sharing.

Table 3. Technical Structures for Data Sharing From Least Restrictive (and Least Expensive) to Most Restrictive (and Most Expensive)					
Structure	Description Description	Additional elements	Resource needs	Example	
Public archive	Analyzable data can be obtained by any user for any use No restriction on the kinds of research questions new users can address	May impose restrictions like prohibitions against re-identification or access to small cell counts May de-identify certain elements, such as study site or demographics, or present sensitive data as an aggregate summary variable	Initial development and annotation Maintenance and access costs	Agency for Healthcare Research and Quality (AHRQ) Healthcare Cost and Utilization Project (HCUP)	
Private archive	Analyzable data can be obtained by authorized users Honest broker or the original owner of the data decides which uses to authorize Requires binding agreement by recipient regarding protection and use of transferred data	As noted for public archive	As noted for public archive Evaluation of requests Execution of data sharing, data use, data transfer, and other agreements, including agreements covering data with full identifiers Monitoring of compliance with agreements, and response to breach of agreements	Yale University Open Data Access (YODA) Project Centers for Medicaid and Medicare (CMS) Limited Data Sets National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) Central Repository	

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	Table 3. Technical Structures for Data Sharing From Least Restrictive (and Least Expensive) to Most Restrictive (and Most Expensive)						
to Most Re Public enclave	Any user may query the data, but not take possession of it. Only aggregate results may be removed from the	may impose restrictions like prohibitions against re-identification, passing the data to other users, or access to small cell	Initial Centers for Medicare and Amedicaid Services (CMS) Ongoing curation and governance Data Center (VRDC)				
	enclave No restriction on the kinds of questions users can address	May de-identify certain elements, such as study site or demographics	Creation and maintenance of informatics support for analyses, including software licenses and computational capabilities, and file storage Personnel needed to ensure data quality, etc.				
Private enclave	Similar to public enclave with regard to provisions for analyzing data without taking possession of it Honest broker or the original owner of the data decides which uses to authorize	Moderated by an honest broker or by representatives of the study and/ or site (either queries or results)	As noted for public enclave Additional resources to evaluate requests and supervise the conduct of approved studies	Food and Drug Administration (FDA) <u>Sentinel</u> <u>Distributed Data</u> <u>Set</u>			

Table from: Simon G, et al. Data Sharing and Embedded Research: Data Sharing Solutions for Embedded Research. In: *Rethinking Clinical Trials: A Living Textbook of Pragmatic Clinical Trials*. Bethesda, MD: NIH Pragmatic Trials Collaboratory. Available at: https://rethinkingclinicaltrials.org/chapters/dissemination/data-share-top/data-sharing-solutions-for-embedded-research/. Updated December 20, 2021. DOI: 10.28929/070.

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Examples of Data Sharing Platforms

There are many public and private data sharing platforms to choose from, and some will fit some projects more than others. In Table 4, we list and briefly describe some of them for informational purposes. Note that this list is not comprehensive nor is the Collaboratory mandating use of one of these platforms. This list represents possible platforms for consideration.

Table 4. Data Sharing Platforms			
Platform	Description		
clinicalstudydatarequest.com	Platform for sharing patient-level data		
<u>Dryad</u>	A curated resource that makes the data underlying scientific publications discoverable, freely usable, and citable; provides a general purpose home for different data types		
<u>FAIRsharing</u>	General data repository		
<u>figshare</u>	Allows uploading of files up to 5GB in any file format and previewing of them in browser.		
<u>GitHub</u>	Large code hosting platform; private, public, open source		
<u>HCUP</u>	Agency for Healthcare Research and Quality (AHRQ) Healthcare Cost and Utilization Project		
Mendeley Data	Certified, free-to-use repository that hosts open data from all disciplines, whatever its format (e.g., raw and processed data, tables, codes and software)		
NIH Data Sharing Repositories	NIH supported data repositories that make data accessible for re- use. Most accept submissions of appropriate data from NIH- funded investigators (and others), but some restrict data submission to only those researchers involved in a specific network.		
OSF	General data repository		
re3data.org	Catalogues of registered and certified data repositories		
Sentinel Distributed Data Set	Food and Drug Administration (FDA) Sentinel initiative (claims data)		
<u>Vivli</u>	Global Clinical Research Data Sharing Platform		
VRDC	Centers for Medicare and Medicaid Services (CMS) Virtual Research Data Center		
YODA Project	A controlled access repository		
Zenodo	General data repository		

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Examples of Data Sharing Statements

As previously described, the International Council of Medical Journal Editors (ICMJE) requires that 7 key elements be addressed in the data sharing statement. Below are example statements that that have been used to fulfill these requirements.

Suicide Prevention Outreach Trial (SPOT) Data Sharing Statement

"A deidentified version of the analytic dataset will be made available at the time of the initial publication of primary study findings. Consistent with policies of the NIH Collaboratory, all resources (intervention materials, specifications, computer code, etc.) will be shared at or before the publication of study results."

From: Simon GE, Beck A, Rossom R, Richards J, Kirlin B, King D, Shulman L, Ludman EJ, Penfold R, Shortreed SM, et al. 2016. Population-based outreach versus care as usual to prevent suicide attempt: study protocol for a randomized controlled trial. Trials. 17(1):452. doi:10.1186/s13063-016-1566-z.

NIH Pragmatic Trials Collaboratory Data Sharing Statement

Links to the de-identified data set as well as resources, such as the study protocol, consent documents, phenotypes and the data dictionary can be found at https://rethinkingclinicaltrials.org/data-and-resource-sharing/.

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Onboarding Data and Resource Sharing Questionnaire

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Data and Resource Sharing Questionnaire

This questionnaire is a worksheet to guide NIH Collaboratory Trials in developing data sharing plans that meet program requirements (see below checklist). This questionnaire is to be used as part of the onboarding process and can used for planning purposes by other researchers who need to share data.

Instructions/guidance are provided in italics. Please provide responses in the answer column.

Data Sharing Questionnaire				
1. Study information				
Question	Answer			
What is the trial name and acronym?				
Who is completing this questionnaire?				
Date of questionnaire completion?				
Please provide a link to the trial's ClinicalTrials.gov registration.				

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2. Data elements and sharing

NIH Pragmatic Trials Collaboratory investigators will each **share, at a minimum, a final research dataset** upon which the accepted primary pragmatic trial publication is based (from the NIH Collaboratory Data Sharing Policy; see Data Sharing Information Document for additional information from NIH Pragmatic Trials Collaboratory, NIH, and medical journal data sharing policies).

2a. Please describe all data collected/used for this study. Select all that apply and fill out each column as applicable.

Data	Y/N	If Y, brief description of data	Identifiable? If so, what IDs?	Can it be shared without restriction?	Can it be shared with restriction?	Describe restrictions (eg, IDs stripped, aggregated info only, etc) or reason data cannot be shared
Individual Level Data						
 Primary data collection through informed consent 						
 Primary data collection through waiver of informed consent 						
Secondary data use – data collected by researchers of an earlier study						
 Secondary data use – administrative data obtained from a covered entity (eg, claims and assessment data from CMS; electronic health records from healthcare providers, etc) 						
Other						
Provider Level Data						
 Other Data (eg, state policy, market level, Census) 						

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Data and Resource Sharing Questionnaire for Plan Development Worksheet

2b. Please describe the analytic dataset that will be released						
Will individuals be identifiable?YesNo N/A	Comments/explanation:					
Level of dataset:IndividualProviderOther	Brief description of dataset:					
If not identifiable, can individuals be differentiated? (eg, includes a study-generated ID so that multiple events/observations can be attributed to a unique study participant) Yes No	Comments/explanation:					
Will providers be identifiable?YesNoN/A	If not identifiable, can providers be differentiated? YesNo					
Can the primary analyses be replicated using the released data? Yes No	If no, why not? (eg, aggregated data, missing elements, etc)					
What value will the data have for other researchers?						
3. What precautions/risks need to be considered?						
healthcare systems may, under some situations, require precautions interests of collaborating healthcare systems, facilities, or providers.	ata derived from clinical care in studies performed in partnership with in addition to those regarding patient confidentiality, to protect specific Precautions such as allowing data sharing in more supervised or restricted roved research goals, may be appropriate to address these needs (from the					

NIH Collaboratory Data Sharing Policy).

Question	Answer
What precautions are needed other than those regarding patient confidentiality?	
Have your research partners expressed concerns about how the data will be shared (enclave, repository, etc)?	
What are the risks to providers and health systems if a less restrictive mechanism is used? (See Data Sharing Information Document for examples from NIH Collaboratory Trials.)	

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Data and Resource Sharing Questionnaire for Plan Development Worksheet

4. How will the data be shared?

Consistent with NIH policy and guidance, NIH Pragmatic Trials Collaboratory investigators will choose the **least restrictive method for sharing of research data** that provides appropriate protection for participant privacy, health system privacy, and scientific integrity (from the NIH Collaboratory Data Sharing Policy).

Question	Answer
What is the least restrictive mechanism you can use for sharing data? (See Data Sharing Information Document for details about these mechanisms.)	
 Public archive (least restrictive) Public enclave Private archive Private enclave (most restrictive) 	
What specific platform will be used? (See Data Sharing Information Document for example data sharing platforms.)	

5. Preparing for data sharing				
Question	Answer			
When will you share data? Prior to or after publication?				
Please write a draft data sharing statement. (See Data Sharing Information Document for example statements.)				
Do you foresee any obstacles regarding data and resource sharing?				

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Version: March 26, 2024

Data and Resource Sharing Questionnaire for Plan Development Worksheet

6. What resources will be shared?

As part of the NIH Pragmatic Trials Collaboratory's commitment to sharing, all NIH Collaboratory Trials are expected to share data **and resources**, **such as protocols**, **phenotypes**, **videos**, **training materials**, **consent documents**, **and recruitment materials**. We recommend that elements of a final data sharing package include the items listed below. If an element will not be included in the data sharing package, please provide a brief explanation for the omission. Resources can be housed in the <u>NIH Collaboratory Knowledge Repository</u> (KR), on a repository (ie, GitHub), or on a study website. We will link to the materials from the Living Textbook. To request posting of materials to the KR, contact nih-collaboratory@dm.duke.edu.

	Will you publish? Yes, No, N/A		publish all that apply)	When publish (mark all that ap	pply)	
Item	If No, justify	NIH KR	Other (specify)	Per manuscript*	Start of study	End of study
Final version of protocol						
Consent documents/process						
Computable phenotypes for outcome measures						
Computable phenotypes for inclusion/exclusion criteria						
Code for generating variables in the analytic dataset from standard sources						
Study questionnaires						
Annotated data collection forms						
Data dictionary (proc contents) for public use dataset						
Data dictionary (proc contents) for all data used in study with annotation regarding limitations on sharing each element						
Code for generating the tables present in a particular manuscript*						
Instructions on how to obtain data that were unable to be released (eg, CMS data files)†						
Tools for sites (eg, toolkits, checklists, instruction sheets, clinician-facing materials)						
Participant-facing materials (eg, videos, flyers, handouts)						
Other						

^{*}For example, PROVEN developed a process of submitting supplemental material for each manuscript published. They store the information in Brown's Digital Repository with a manuscript-specific URL that is published within the manuscript. They include the code that generated the manuscript's tables. †For example, the PROVEN team refers the reader to www.resdac.org for the use of CMS data files and lets them know the file types and years used for its study since they cannot release those data.

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Data and Resource Sharing Checklist

Background

All NIH Collaboratory Trials will be expected to review this checklist as part of the onboarding process so they understand what will be expected. They will complete the checklist at closeout.

As part of the NIH Pragmatic Trials Collaboratory's commitment to sharing, all of its trials are expected to share data and resources, such as protocols, phenotypes, videos, training materials, consent documents, and recruitment materials. We recommend that elements of a final data sharing package include the items listed in the checklist below. If an element will not be included in the data sharing package, please provide a brief explanation for the omission. Resources can be housed in the NIH Collaboratory Knowledge Repository (KR), on a repository (eg, GitHub), or on a study website. We will link to the materials from the Living Textbook on each trial's webpage and through a separate Data and Resource Sharing section. To request posting of materials to the KR, contact nih-collaboratory@dm.duke.edu.

Note: There will **not** be a dedicated space on the NIH Collaboratory website for posting analytic datasets; rather, we will post a hyperlink to the data sharing repository chosen by each trial. In the Data Sharing Information Document, the EHR Core provides a partial list of existing data sharing platforms. The accompanying Data Sharing Information Document also contains information on data sharing requirements for the NIH Pragmatic Trials Collaboratory, NIH, and medical journals; information on data sharing mechanisms and platforms; and examples from NIH Collaboratory Trials.

Data and Resource Sharing Checklist for Plan Development – Part 1

Data and Resource Sharing Checklist
1. Trial information
Trial name and acronym:
Checklist completed by:
Date:
Link to ClinicalTrials.gov registration:
Link to trial website:

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Data and Resource Sharing Checklist for Plan Development – Part 2

2. Resource location						
ltem	Provide hyperlink or indicate if item will be stored in the KR	If item will not be shared, please provide a brief explanation for the omission				
Publications/Dissemination						
Link to protocol paper						
Link to main outcome paper						
Link to other trial-related publications						
Materials used to communicate overall trial results to participants (eg, lay summary)						
Study tools						
Final version of the protocol, including summary of changes Consent documents or consent process						
Tools for sites (eg, toolkits, checklists, instruction sheets, clinician-facing materials)						
Participant-facing materials (eg, videos, flyers, handouts)						
Computable phenotypes for outcome measures						
Computable phenotypes for the inclusion/exclusion criteria						
Code for generating variables in the analytic dataset from standard sources						
Datasets and documentation						
Annotated data collection forms						
Link to public use dataset						
Data dictionary (proc contents) for public use dataset						
Other resources		·				

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Closeout Data and Resource Sharing Checklist

Purpose

As part of the NIH Pragmatic Trials Collaboratory's commitment to sharing, all Collaboratory trials are expected to share data and resources, such as protocols, phenotypes, videos, training materials, consent documents, and recruitment materials. We recommend that elements of a final data sharing package include the items listed in the checklist below. If an element will not be included in the data sharing package, please provide a brief explanation for the omission. Resources can be housed in the NIH Collaboratory Knowledge Repository (KR), in a repository (i.e., GitHub), or on a study website. We will link to the materials from the Living Textbook. To request posting of materials to the KR, contact nih-collaboratory@dm.duke.edu.

Note: There will **not** be a dedicated space on the NIH Collaboratory website for posting analytic datasets; rather, we will post a hyperlink to the data sharing repository chosen by each trial. In the Data Sharing Information Document, the EHR Core provides a partial list of existing data sharing platforms. The accompanying Data Sharing Information Document also contains information on data sharing requirements for the NIH Pragmatic Trials Collaboratory, NIH, and medical journals; information on data sharing mechanisms and platforms; and examples from Collaboratory Trials.

Prepared by: The NIH Collaboratory Coordinating Center

Version: February 28, 2024

Data and Resource Sharing Checklist

All NIH Pragmatic Trials Collaboratory Trials are expected to complete this checklist at closeout. The information provided in the checklist will be published in the Living Textbook on each Collaboratory Trial's page and on a Data and Resource Sharing page.

Data and Resource Sharing Checklist					
1. Trial information					
Trial name and acronym:					
Checklist completed by:					
Date:					
Link to ClinicalTrials.gov registrat	ion:				
Link to trial website:					
2. Resource location					
Item	Provide hyperlink or indicate if item will be stored in the KR	If item will not be shared, please provide a brief explanation for the omission			
Publications/Dissemination					
Link to protocol paper					
Link to main outcome paper					
Link to other trial-related					
publications					
Materials used to communicate					
overall trial results to					
participants (eg, lay summary)					
Study tools					
Final version of the protocol,					
including summary of changes					
Consent documents or consent process					
Tools for sites (eg, toolkits,					
checklists, instruction sheets,					
clinician-facing materials)					
Participant-facing materials					
(eg, videos, flyers, handouts)					
Computable phenotypes for					
outcome measures					
Computable phenotypes for					
the inclusion/exclusion criteria					
Code for generating variables					
in the analytic dataset from					
standard sources					

Prepared by: The NIH Collaboratory Coordinating Center

Version: February 28, 2024

Closeout Data and Resource Sharing Checklist

Datasets and documentation				
Annotated data collection				
forms				
Link to public use dataset				
Data dictionary (proc contents)				
for public use dataset				
Other resources				

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TRIAL MATERIALS



UG3 Project: Self-Testing for Cervical Cancer in Priority Populations: The STEP-2 Trial

Co-Principal Investigators:

- Rachel Winer, PhD, MPH
- Amanda Petrik, PhD
- Jasmin Tiro, PhD

Sponsoring Institution: University of Washington

Collaborators:

University of Chicago

Kaiser Permanente Northwest Center for Health Research

- Kaiser Permanente Washington Health Research Institute
- Virginia Garcia Memorial Health Center (Oregon)
- HealthPoint Community Health Center (Washington)
- CareOregon
- Molina Healthcare
- Community Health Plan of Washington

NIH Institute Providing Oversight: National Cancer Institute (NCI)

Program Official: Veronica Chollette, RN, MS (NCI)

Project Scientist: Cynthia Vinson, PhD, MPA (NCI)

Abstract:

The 29.3 million patients receiving care in US Federally Qualified Health Centers (FQHCs) have much lower cervical cancer screening rates than national averages: Only 53% of eligible patients were up-to-date in 2021 and the COVID-19 pandemic exacerbated these disparities. Self-sampling for human papillomavirus (HPV) is an evidence-based cervical cancer screening method with high potential to reduce screening barriers. Self-sampling kits can be distributed at clinics or mailed to patients' homes. Despite widespread international adoption, HPV self-sampling is nascent in the US. Little data is available to inform implementing this preventive service in low-resource settings such as FQHCs.

Our two-phase pilot and pragmatic trial will adapt and evaluate two programs to integrate HPV self-sampling into FQHCs. Our trial accounts for the context, capacity and resources of FQHCs, and leverages FQHC-Medicaid partnerships to promote this preventive care service. Phase 1 will be a milestone-driven planning phase. We will use community-engaged research and stakeholder input to adapt and pilot-test 2 multilevel interventions in 2 FQHCs for distributing HPV self-sampling kits: in clinic distribution and in clinic *plus* mailed distribution. Phase 2 will be a cluster-randomized pragmatic trial in 42 Oregon and Washington FQHC clinics to evaluate the comparative effectiveness and cost-effectiveness of the interventions. Clinics will be randomized to Usual Care (*UC*), in-clinic distribution (*Clinic Only*), or inclinic plus mailed distribution (*Clinic + Mail*). For in-clinic distribution, providers will offer self-sampling at in-person or telehealth encounters. The mailed component will be administered by 3 Medicaid health plans. The primary outcome is

the proportion of eligible patients (30-64 years, due/overdue for routine screening) who complete screening. Two primary comparisons are (1) *UC* vs *Clinic Only* and (2) *Clinic Only* vs *Clinic + Mail*. To minimize bias, each comparison includes distinct but overlapping patient populations. Comparison 1a includes all patients (Medicaid and non-Medicaid) with a clinic encounter during the 12-month study period. Comparison 1b is restricted to Medicaid patients who are enrolled with the clinic, but does not require a clinic encounter during the 12-month study period. Cost-effectiveness will compare the *Clinic Only* HPV self-sampling intervention relative to *UC*, and *Clinic + Mail* relative to *Clinic Only*. We will use the RE-AIM framework and PRISM to evaluate the implementation strategies through mixed methods.

Our pragmatic trial will be the first in the US to determine the effectiveness and cost-effectiveness of HPV self-sampling for increasing cervical cancer screening in FQHC settings. Results from our comparisons and evaluation of implementation strategies will inform broad-scale implementation of HPV self-sampling across FQHCs and other safetynet clinics in the US to reduce cervical cancer screening disparities.

NIH Project Information



Self-Testing for Cervical Cancer in Priority Populations: the STEP-2 Trial (STEP-2)

DATA MANAGEMENT AND SHARING PLAN

Principal Investigators: Rachel Winer, PhD, MPH; Amanda Petrik, PhD; Jasmin Tiro, PhD

Element 1: Data Type

A. Types and amount of scientific data expected to be generated in the project:

- 1. <u>Type of Scientific Data</u>. The scientific data to be generated and/or collected will include clinical data on patients who are ages 30–64 years and patients at Federally Qualified Health Centers (FQHCs), as well as qualitative data from patients, clinicians, and health plan staff, and survey data from clinicians.
- 2. <u>Estimated Amount of Scientific Data.</u> We estimate data will include clinical data from patients who receive care at FQHCs (Pilot n=600, Full Trial n=15,525); Boot Camp Translation (n=22) and qualitative data from patients (n=50), clinicians (n=72), health plan staff (n=8) and survey data from clinicians (n=300).
- 3. <u>Scientific Data Source.</u> The scientific data generated under this project will be collected/generated from claims and clinical datasets from the FQHCs, which will be obtained under a waiver of informed consent. We will also collect qualitative interview and survey data. Interview and survey data will be obtained with informed consent.
- 4. <u>Scientific Data Format.</u> Data will be individual level limited data sets transferred through a secure file transfer system.

B. Scientific data that will be preserved and shared, and the rationale for doing so:

- 1. <u>Scientific Data to be Shared</u>: UW anticipates the preservation and sharing of the following scientific data: Transcribed qualitative interview data, survey data, and deidentified or limited clinical data. Data will be stored within a secure computing environment. Identifiable individual level data will not be shared. All direct participant identifiers (e.g., names, clinic names, addresses) will be removed and maintained in a secure file. All other scientific data (interview data, survey data, and clinical data) will be both preserved and shared with unique identifiers. Participant identifiers will not be shared.
- 2. <u>Rationale</u>: The scientific data anticipated to be preserved and shared under this project represents the maximum level of sharing appropriate, based on the following factors: *Waiver of Informed Consent:* A waiver of informed consent will be requested for this project for clinical data. Any restriction imposed by the IRB will be reflected or updated in this document upon approval.

Informed Consent: Informed consent is anticipated to be required for participation in survey and qualitative project components.

Applicable Laws: The data being shared under this plan is covered under HIPAA. Other laws

may also apply and restrict UW's ability to share certain scientific data.

Participant Privacy and Safety Concerns: The following privacy and safety concerns may restrict UW's ability to share certain scientific data: content in the qualitative interviews that identifies patients, clinicians or health plan staff, and puts them at risk for re-identification or suffering harm.

Restrictions imposed by existing or anticipated agreements: UW anticipates the following agreement(s), which may restrict UW's ability to share certain scientific data: agreements with collaborators or external data sources which may restrict disclosure of data by UW.

C. Metadata, other relevant data, and associated documentation:

Documentation to be made publicly available to the research community includes data dictionaries, final versions of interview guides, survey instruments, and study-level metadata. Each variable in the data dictionary will include a brief description of the item, variable label, value labels, and standard codes for missing values. We will also include qualitative interview guides and codebooks describing themes or other codes that were used for analysis.

Element 2: Related Tools, Software and/or Code

Quantitative scientific data will be processed and analyzed with SAS, STATA or R; and codes for analysis in papers will be shared. We will remove local path names and macros for local computing.

Element 3: Standards

To facilitate data use, the study will identify a single data safety monitoring plan (DSMP) Manager, who will use standard processing and documentation protocols for data formats and dictionaries as well as for variable names, descriptions, and labels. Metadata will include, at minimum, mandatory properties recommended by the latest DataCite metadata schema. Data dictionaries will be provided in text (.csv) format. Study-level metadata will also be provided in text (.txt) format. Survey questionnaires, interview guides, and the qualitative codebook will be provided in portable document format (PDF).

Element 4: Data Preservation, Access, and Associated Timelines

A. Repository where scientific data and metadata will be archived:

The scientific data anticipated to be shared under this project, as described in Element 1 of this Plan, will be deposited and maintained at the UW Data Repository (Dryad open-access). Publicuse and restricted-access study data and associated documentation will be made available to the research community free of charge.

B. How scientific data will be findable and identifiable:

The scientific data anticipated to be shared under this project, as described in Element 1 of this Plan, will be assigned a persistent unique identifier when submitted to the UW Data Repository. Instructions for requesting data access will be provided in published articles and presentations.

C. When and how long the scientific data will be made available:

The scientific data anticipated to be shared under this project, as described in Element 1 of this Plan, will be deposited in the repository specified above as soon as possible, but no later than the time of associated manuscript publication or completion of the funded project period for the parent award, whichever is earlier. Data will be made available for 5 years.

Element 5: Access, Distribution, or Reuse Considerations

A. Factors affecting subsequent access, distribution, or reuse of scientific data:

UW is committed to providing the maximum level of reuse appropriate for the scientific data being preserved and shared under this project. The limitations affecting subsequent access, distribution, or reuse of scientific data for this project are as follows:

<u>Informed Consent</u>: The informed consent for this project is anticipated to include describing future uses of the data through a deidentified data repository.

<u>Applicable Laws</u>: No laws are expected to restrict subsequent access, distribution, or reuse of scientific data being preserved and shared under this project.

Participant Privacy and Safety Concerns: No privacy and safety concerns are expected to restrict subsequent access, distribution, or reuse of scientific data being preserved and shared under this project. **Restrictions imposed by existing or anticipated agreements:** UW does not anticipate entering into any agreements which may restrict access, distribution, or reuse of scientific data being preserved and shared under this project.

B. Whether access to scientific data will be controlled:

The repository described in Element 4 of this Plan has been **established specifically for projects conducted at UW**. Access to qualified researchers will be provided through the following UW Data Repository policies and procedures:

1. Public Use Data: All deidentified study data that are not designated as restricted use will be made available as public use data to the research community via the UW Data Repository. Users of the public use data must register with RDAC and agree to the Terms of Use, which are designed to protect study participants by limiting data use to scientific research and aggregate statistical reporting, prohibiting attempts to identify study participants, and requiring immediate reporting of any disclosure of study participant identity. Data users also agree not to share or redistribute any data downloads.

- 2. Restricted Access Data: Data that are determined to be potentially identifying through indirect or deductive disclosure will be provided under restricted access and under a data contract to users who demonstrate a valid research need and meet conditions of use. Access to restricted study data is available via an application to the UW Data Repository.
- C. Protections for privacy, rights, and confidentiality of human research participants:

The scientific data derived from humans under this project and shared as described in this Plan will be protected through processes developed at UW. Once the data collection for this study has concluded, all direct respondent identifiers (e.g., names and addresses) will be removed and maintained in a separate control file.

Element 6: Oversight of Data Management and Sharing:

Monitoring of and compliance with this Data Management and Sharing Plan will be the responsibility of the project's Principal Investigators, Dr. Winer, Dr. Petrik, and Dr. Tiro. The plan will be implemented and managed by the project staff working under the direction of Dr. Winer. Dr. Winer will meet with the project

director and research staff weekly. They will also ensure that the research datasets are uploaded to the UW Data Repository as agreed upon in this Data Management and Sharing Plan.

STEP-2: Challenges Scorecard

Challenge		Level of Difficulty*					
		1	2	3	4	5	
Regulatory issues (e.g., IRBs, consent)			X				
Study design issues (e.g., ICC, power, sample size, confounders)					X		
Infusing health equity across the research life cycle, including enrolling a diverse and representative population				X			
Engaging with patient partners to inform the study		Χ					
Engaging with clinicians and health systems and health plans to identify or recruit participants					X		
Engaging with clinicians and health systems and health plans to deliver the intervention					X		
Data access (e.g., approval, privacy, security) and data management planning			X				
EHR integration and/or data extraction, including data management and quality assessment				X			
Collecting multi-level prospective data, including PROs			X				
Optimizing intervention sustainability and planning for sustainment					X		

^{*}Your best guess: 1 = little difficulty; 5 = extreme difficulty

POLICIES AND GUIDELINES



NIH Pragmatic Trials Collaboratory Data Sharing Policy

Introduction

The Collaboratory Steering Committee recognizes that data sharing promotes many goals of the NIH research endeavor. It is particularly important for <u>unique data</u> that cannot be readily replicated. Data sharing allows scientists to expedite the translation of research results into knowledge, products, and procedures to improve human health.

There are many reasons to share data from these NIH-supported studies. Sharing data reinforces open scientific inquiry, encourages diversity of analysis and opinion, promotes new research, makes possible the testing of new or alternative hypotheses and methods of analysis, supports studies on data collection methods and measurement, facilitates the education of new researchers, enables the exploration of topics not envisioned by the initial investigators, and permits the creation of new datasets when data from multiple sources are combined.

The Collaboratory Steering Committee agrees that data should be made as widely and freely available as possible while safeguarding the privacy of participants, and protecting confidential and proprietary data, and therefore adopts the following policy regarding data sharing:

Policy

- 1. Collaboratory investigators will each share, at a minimum, a final research data set upon which the accepted primary pragmatic trial publication is based.
- 2. The Collaboratory Steering Committee recognizes that sharing data derived from clinical care in studies performed in partnership with health care systems may, under some situations, require precautions in addition to those regarding patient confidentiality, to protect specific interests of collaborating health care systems, facilities or providers. Precautions such as allowing data sharing in more supervised or restricted settings, such as access to researchers who agree to limited pre-approved research goals, may be appropriate to address these needs in implementing this data sharing policy.
- 3. Consistent with NIH policy and guidance, Collaboratory investigators will choose the least restrictive method for sharing of research data that provides appropriate protection for participant privacy, health system privacy, and scientific integrity.
- 4. Collaboratory investigators will work with NIH to implement this data sharing policy, to ensure the appropriate administrative processes and technical infrastructure are in place to support timely data sharing for the Collaboratory.



NIH Pragmatic Trials Collaboratory Data Sharing Considerations

Objectives

Sharing research data collected in Collaboratory pragmatic trials is essential to several core objectives of the Collaboratory program, including:

- Maximizing the public health impact of the significant NIH investment in these large projects;
- Accelerating the pace of learning throughout the US healthcare system; and
- Increasing participation in research and learning by a wide range of stakeholders, including healthcare systems, healthcare providers, and patients/consumers

The ethical responsibility to share data generated by publicly funded research must be balanced against the need to protect patient privacy and scientific integrity.

Because Collaboratory trials typically rely on data collected through normal health care delivery, sharing data from those trials will be guided by some considerations not typically encountered in more traditional clinical trials. For example, individual participant consent may be waived in accordance with the federal regulations for the Protection of Human Subjects (45 CFR part 46) in some NIH Collaboratory Pragmatic trials that rely on data extracted from health systems' electronic medical records or administrative data. Special considerations in developing data sharing for pragmatic trials involving health system data are discussed in the accompanying guidance document, "Considerations Regarding Sharing of Health Systems Data."

Existing Regulatory Requirements

All NIH Collaboratory Pragmatic Trials are expected to adhere to existing NIH Data Sharing Policy and Implementation Guidance

(http://grants.nih.gov/grants/policy/data-sharing/data-sharing-guidance.htm). Key points in that policy and guidance include:

- The privacy of participants should be safeguarded.
- Data should be made as widely and freely available as possible.
- Data should be shared no later than the acceptance for publication of the main study findings.
- Initial investigators may benefit from first and continuing use of data, but not from prolonged exclusive use.

NIH defines the data to be shared as the "recorded factual material commonly accepted in the scientific community as necessary to document, support, and validate research findings. This does not mean summary statistics or tables; rather, it means the data on which summary

statistics and tables are based. For most studies, final research data will be a computerized dataset. For example, the final research data for a clinical study would include the computerized dataset upon which the accepted publication was based, not the underlying pathology reports and other clinical source documents. For some but not all scientific areas, the final dataset might include both raw data and derived variables, which would be described in the documentation associated with the dataset."

Special Considerations Regarding Use of Health System Data

The NIH policy recognizes that data may need to be modified prior to sharing to protect participant's privacy. Data may need to be redacted to strip identifiers, and data use agreements requiring confidentiality may be required. It may be appropriate under certain circumstances to limit access to sensitive data under stricter controls such as those possible through a data enclave.

Given that the NIH Collaboratory trials rely on data extracted from health systems' electronic medical records or administrative data, it is important to distinguish between research data and the original health system data from which research data were extracted. Each Collaboratory trial is allowed to create and/or use specific health information through either an explicit informed consent process and/or a waiver of consent granted by one or more supervising Institutional Review Boards. While Collaboratory trial personnel may have access to a wide range of original health system data (Electronic Health Records, insurance claims, etc.), trials are only allowed to use and store data elements specifically authorized for research use - either by participant consent or by formal waiver of consent by the responsible Institutional Review Board (s).

Investigators are not expected to share or give access to original health system data in electronic medical records or other administrative data systems. Rather, they are expected to give access only to the research data on which their analyses are based and conclusions drawn. For example: A Collaboratory trial may be authorized by participant consent or waiver of consent to examine Electronic Health Records and insurance claims data to assess adherence to a specific class of medications for each trial participant. Computing specific measures of medication adherence may require trial personnel to access all available information regarding medications ordered and/or prescriptions filled. In accord with the consent limits, however, investigators would only retain and analyze specified data elements. In most cases, the detailed original data regarding all medications ordered and/or prescriptions filled would not be retained by investigators and would not be subject to any expectations or requirements for data sharing.

It is recognized that sharing data derived from clinical care in studies performed in partnership with health care systems may, under some situations, require additional precautions to protect specific interests of collaborating health care systems, facilities or providers. Precautions such as allowing data sharing through a restricted data enclave in

¹ NIH Data Sharing Policy and Implementation Guidance (http://grants.nih.gov/grants/policy/data sharing/data sharing guidance.htm).

which access is limited to researchers who agree to limited pre-approved research goals may be appropriate to address these needs in developing data sharing practices.

Methods and Tools for Data Sharing

A range of technical options are available for sharing data with external users:

- Unsupervised Data Archive Data that cannot be linked to individuals are made available for unrestricted public use. Potential users are not asked to propose specific questions or analytic plans, and users are not expected to account for any use or redisclosure.
- Unsupervised Public Data Enclave Data are not shared with external users. Instead, users are allowed to submit queries typically through an online portal.
 "Unsupervised" means that queries are executed automatically, without prior review or requirement for prior approval. "Public" implies that any member of the public could submit queries. Risk of identifying individual data or other misuse can be managed by limiting the identifiability of the dataset to which queries are submitted, limiting the complexity of queries users are allowed to submit, or by limiting the level of detail of results that are returned.
- Unsupervised Private Data Enclave This arrangement would be identical to an unsupervised public enclave, except that access would be limited to specific registered or pre-qualified users. "Unsupervised" means that individual queries are executed automatically, without prior review or any requirement for prior approval.
- Supervised Data Archive Data that cannot be linked to individuals are made
 available to approved users for specific pre-approved purposes. Users are typically
 expected to propose specific questions or analyses, and use of data is limited to specific
 approved uses. Written documentation of requests and conditions for release are
 common. Disclosure to third parties is typically restricted or forbidden unless required
 by law. These limits or restrictions can be documented in contracts or other
 agreements.
- **Supervised Data Enclave** Data are not made available to external users. Instead, users submit queries to data (typically through an online portal). "Supervised" means that all queries are reviewed and approved before execution and return of results.

These different methods allow different levels of and mechanisms for, privacy protection. At one extreme, an unsupervised data archive allows no control or protection once data are shared with users, so protection depends completely on the dataset contents. At the other extreme, a supervised data enclave allows complete control and protection over user qualifications, query logic, query topic, and return of results. In some cases, these additional levels of protection will allow investigators to share data that could not be appropriately shared through less controlled or supervised mechanisms.

Expectations for Collaboratory Trials

At minimum, Collaboratory investigators must prepare and share a final research data set upon which the accepted primary pragmatic trial publication is based. Data sets will be structured to maximize future scientific value while protecting patient and health system privacy.

Data Sharing Considerations

- Data should not include any of the 18 HIPAA-specified direct identifiers
- Investigators should have reason to expect that the data cannot be used to identify a subject, or that the risk of re-identification is "very small."

The Department Health and Human Services guidance regarding HIPAA-compliant data sharing (http://www.hhs.gov/ocr/privacy/hipaa/understanding/coveredentities/De-identification/guidance.html#idrisk) describes specific methods for reducing risk of re-identification, including generalization (or aggregation) of specific variables and suppression of individual values or observations.

Collaboratory trials may also choose to make more detailed data available through one of the more restricted options described above. Sharing additional data through one of these more restricted mechanisms is appropriate when sharing such data would have scientific or public health value but also increase risk of re-identification or other misuse.

In addition to measures necessary to prevent re-identification of individual study participants, additional measures may be necessary to prevent re-identification of providers or facilities. For example: A hypothetical trial might include patients from five clinics serving patient populations with markedly different racial and ethnic composition. A dataset including "blinded" clinic identifiers as well as participant race and ethnicity might allow users to re-identify participating clinics. An investigator sharing these data using one of the unsupervised approaches described above could prevent such re-identification by creating distinct datasets – one including clinic identifier and one including participant race and ethnicity. An investigator sharing these data using one of the supervised approaches described above could limit queries or analyses to those that would not re-identify participating clinics.

Consistent with NIH policy and guidance, investigators should choose the least restrictive method that provides appropriate protection for participant privacy, health system privacy, and scientific integrity. In addition, more supervised or restricted options will typically require a higher level of resources (technical infrastructure, investigator time, other staff time) to support.

Questions for Steering Committee Discussion

- 1. Do we accept the policy that all Collaboratory trials are expected to develop and share an appropriately de-identified analytic dataset?
- 2. If we accept that policy, is a 6-month timeframe after publication an appropriate deadline for sharing of that dataset?
- 3. Where will the Collaboratory data sets be archived?
- 4. If Collaboratory trials are able to share more detailed data through some more limited process (e.g. supervised data archive, supervised data enclave), will the NIH Collaboratory Program provide the ongoing resources to govern and manage that process?



Assessing Fitness-for-use of Clinical Data for PCTs

Background

The credibility and reproducibility of pragmatic clinical research depends on the investigator's demonstration that the data are of sufficient quality to support the research conclusions. This document highlights recommendations for assessing the fitness-for use of data generated from routine patient care for use in PCTs. For more, read the full chapter in the Living Textbook <u>Assessing Fitness for Use of Real World Data</u>.

Before using an EHR dataset for a given research project, one should determine whether it is fit-for-purpose by determining if the data are **relevant** and **reliable**. Relevance includes the availability of key data elements (exposures, outcomes, covariates) and sufficient number of representative patients for the study. Reliability includes data accuracy, completeness, provenance and traceability (<u>FDA 2021</u>).

More specifically, a real-world data source is said to be **relevant** if:

- The data apply to question at hand;
 - For example, the data contain sufficient detail to capture the use or exposure of the product or device and/or the outcome of interest.
- The data are amenable to sound clinical and statistical analysis:
 - For example, the data can be used to answer the specified question using the proposed statistical plan.
- The data and evidence the source provides are interpretable using informed clinical and statistical judgement.
 - For example, the use of a device or product in a real-world population is representative of what
 is captured in the data source, is generalizable to the relevant population under study, etc
 (FDA 2018).

Data are considered reliable if:

- Data are captured in a standardized and rigorous manner
- Data are accurate and complete, data provenance is known, and data are traceable
- Efforts of data curation, transformation, accrual, etc. are known (i.e., process from transforming raw data to analytic dataset)

EHR data typically go through several phases when used to support a PCT – from source system, to clinical data repository to data warehouse to study-specific dataset. The quality or fitness of a dataset may be evaluated at various points along this process, with different processes for quality assurance or quality control (FDA 2021). Assessment of data quality is on ongoing process, and conformance, completeness, and plausibility should be assessed throughout the trial.

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Data Quality Checks

Example data checks to evaluate conformance, completeness, and plausibility are provided in the table below.

Table 1. Categories of Data Quality Checks and Examples From Distributed Research Networks						
Category	Subcategory	Description	Data Check Example			
Conformance	Value	Determines whether the data conform to the formats of the data model used to store them	Sex values are F, M, or U. Age is in specified range.			
	Relational	Determines whether the data agree with the constraints imposed by the database used to store them (eg, primary or foreign key relationships)	All patient medical record fields are present in each table that requires them			
	Calculation	Evaluates whether variables derived computationally yield valid results	Enrollment periods do not overlap. Computed BMI is correct.			
Completeness		Examines whether expected values are present (single time point or longitudinally)	Gender is not null.			
Plausibility	Uniqueness	Determines whether multiple values exist when only one value is expected	Patient does not have multiple inpatient admissions to the same facility on the same day			
	Atemporal	Measures whether data agree with expected values	Most of the records are not in the lowest or highest categories of age, height, weight, diastolic blood pressure, etc			
	Temporal	Examines whether variables change as expected over a specified time period	Events are not before date of birth or after date of death			

For more details see: A Harmonized Data Quality Assessment Terminology and Framework for the Secondary Use of Electronic Health Record Data and the FDA Guidance for Industry: Real-World Data: Assessing Electronic Health Records and Medical Claims Data To Support Regulatory Decision-Making for Drug and Biological Products

Data Quality Assessment Recommendations for PCTs

1 – Key data quality dimensions

We recommend that conformance, completeness, and plausibility be formally assessed for data elements used in subject identification, outcome measures, and important covariate

2 - Reporting data quality assessment with research results

Results of data quality assessments should be reported with research results. Data quality assessments are the only way to demonstrate that data quality is sufficient to support the research conclusions, and as such should be accessible to consumers of research.

Food and Drug Administration. 2018. Framework for FDA's Real-World Evidence Program. https://www.fda.gov/media/120060/download. Accessed August 25, 2020. Food and Drug Administration. 2021. Real-World Data: Assessing Electronic Health Records and Medical Claims Data To Support Regulatory Decision-Making for Drug and Biological Products. https://www.fda.gov/media/152503/download.

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Publications, Presentations, and Products Policy

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I. Purpose

The National Institutes of Health (NIH) Pragmatic Trials Collaboratory is supported by cooperative agreements and grant awards from NIH Institutes, Centers, and Offices. A principal goal of the NIH Collaboratory is to produce generalizable knowledge by publishing high-quality, timely research findings and perspectives in the peer-reviewed literature; delivering presentations of NIH Collaboratory scholarship in public forums; and sharing guidance, tools, best practices, and other resources for healthcare systems research.

It is recognized that NIH Pragmatic Trials Collaboratory investigators will publish manuscripts, submit abstracts, and deliver presentations that directly reflect NIH Collaboratory activities. Investigators will also publish manuscripts, submit abstracts, and deliver presentations that either mention NIH Collaboratory activities or address topics that are related to NIH Collaboratory activities but are funded from other sources.

The NIH Pragmatic Trials Collaboratory includes the individual NIH Collaboratory Trials, the Core Working Groups, and ad hoc working groups, all of which may develop publications, presentations, and other products. Manuscripts, abstracts, presentations, and other products derived from NIH Collaboratory–supported activities will be designated as NIH Collaboratory products.

II. Definitions

A. NIH Collaboratory Trial Publications and Presentations

NIH Collaboratory Trial publications and presentations are manuscripts, abstracts, and presentations that deal directly with knowledge derived from the NIH Collaboratory Trials. For example, a manuscript, abstract, or presentation that reports methods or results of an NIH Collaboratory Trial is an NIH Collaboratory Trial publication or presentation. Review and approval of NIH Collaboratory Trial publications and presentations will follow the procedures described in Section IV of this policy.

B. Core Working Group Publications and Presentations

Core Working Group publications and presentations are manuscripts, abstracts, and presentations produced by a Core Working Group as part of the Core's efforts to create generalizable knowledge. For example, a manuscript, abstract, or presentation that reports a comparison of methods for validating phenotypes across NIH Collaboratory Trials undertaken by members of a Core is a Core Working Group

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publication or presentation. Review and approval of Core Working Group publications and presentations will follow the procedures described in Section V of this policy.

C. Guidance Documents

Guidance documents are official statements by the NIH Pragmatic Trials Collaboratory meant to describe procedures or principles for the conduct of healthcare systems research. These documents are intended to have an enduring quality and to represent a synthesis of considerable evidence. Guidance documents may be produced by 1 or more Core Working Groups or by an ad hoc working group. Guidance documents are published on the NIH Collaboratory website. Review and approval of guidance documents will follow the procedures described in Section VI of this policy.

D. Tools, Best Practice Documents, and Other Resources

Tools, best practice documents, and other resources are products that represent a consensus within 1 or more Core Working Groups about approaches to healthcare systems research. Examples include, but are not limited to, checklists, tips and frequently asked questions, executive summaries, and other information resources. Tools, best practice documents, and other resources are intended to evolve and may be subject to frequent revision as lessons emerge from the NIH Collaboratory Trials and Core Working Groups. Tools, best practice documents, and other resources are published on the NIH Pragmatic Trials Collaboratory website. Review and approval of tools, best practice documents, and other resources will follow the procedures described in Section VII of this policy.

E. Short Communications

Short communications are products hosted on the NIH Pragmatic Trials Collaboratory website or social media accounts—such as news articles, video and audio recordings, and social media posts—about NIH Collaboratory activities and other topics relevant to healthcare systems research. Short communications are produced by the Coordinating Center communications team in consultation with the Coordinating Center leadership. Review and approval of short communications will follow the procedures described in Section VIII of this policy.

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III. Publications, Presentations, and Products Committee

A. Members and Decision Making

The Publications, Presentations, and Products Committee ("Publications Committee") consists of Coordinating Center investigators, representatives from the NIH Collaboratory Trials, and the NIH project officer and project scientist, as well as nonvoting Coordinating Center staff who serve as committee staff. The Coordinating Center leadership appoints the chair of the committee. Decisions of the committee will be made by majority vote, although consensus will be sought in all cases.

B. Responsibilities

- 1. The Publications Committee oversees all NIH Pragmatic Trials
 Collaboratory–supported publication and presentation activities, with final
 adjudication of decisions made by the Steering Committee as needed.
 Oversight includes the following specific activities:
 - a. The Publications Committee reviews and approves (1) Core Working Group manuscripts before they are submitted and (2) guidance documents before they are published to ensure that descriptions of NIH Collaboratory activities are accurate and to share comments and suggestions. Committee staff review these documents to ensure the use of required acknowledgment and disclaimer language.
 - b. Committee staff review manuscripts from the NIH Collaboratory
 Trials before they are submitted to ensure the use of required
 acknowledgment language and to check for mentions of other NIH
 Collaboratory Trials. Committee staff also review tools, best practice
 documents, and other resources before they are published on the NIH
 Collaboratory website to ensure the use of required acknowledgment
 and disclaimer language and to check for mentions of NIH
 Collaboratory Trials.
- 2. The Publications Committee also monitors the overall NIH Collaboratory publications pipeline and proposes new topics for cross-Collaboratory publications. A cross-Collaboratory publication may be prepared by an ad hoc working group or by 1 or more Core Working Groups or NIH Collaboratory Trial teams.

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IV. NIH Collaboratory Trial Publications and Presentations

A. Authorship

Decisions regarding the content and authorship of NIH Collaboratory Trial publications and presentations will be made by the individual trial's steering committee, including NIH staff who provide oversight for the project (when allowed by NIH policy specific to the supporting Institute, Center, or Office).

B. Review

1. NIH Collaboratory Trial **manuscripts** will be submitted by the authors to the Coordinating Center (nih-collaboratory@dm.duke.edu) at least 10 business days before the planned submission to allow Publications Committee staff to review the document to ensure the use of required acknowledgment and disclaimer language and to check for mentions of other NIH Collaboratory Trials. Committee staff will respond within 10 business days.

Abstracts and presentations should acknowledge NIH Pragmatic Trials Collaboratory support but need not be submitted to the Coordinating Center in advance. See Section IX of this policy for funding acknowledgment language.

- 2. For draft NIH Collaboratory Trial manuscripts that include descriptions of or details about an NIH Collaboratory Trial other than the authors' own, committee staff will notify the Publications Committee chair and will share the manuscript or other materials with the principal investigator of the other NIH Collaboratory Trial. That investigator will be given the opportunity to review the pertinent section for accuracy, comment on the portrayal of their trial, and offer corrections of errors, but will not exercise editorial control over other sections of the manuscript. If no response is received from the principal investigator within 10 business days of receiving the manuscript for review, assent and approval will be assumed. In the event of disagreements between the authors and the principal investigator of the other NIH Collaboratory Trial, the issue will be referred to the chair of the NIH Collaboratory Steering Committee for adjudication.
- 3. There may be circumstances (for example, if an author is an NIH staff member) wherein an NIH Institute, Center, or Office for a given NIH Collaboratory Trial would require review of a manuscript, abstract, or presentation before its submission. Authors are expected to work with NIH staff to determine whether such a review is required and, if so, to ensure that the requirement is addressed before submission.

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- 4. Final editorial authority and the decision to publish will reside with the NIH Collaboratory Trial's steering committee, including NIH staff who provide oversight for the project. The Publications Committee will provide advice and assistance with dissemination as needed.
- 5. Other manuscripts, abstracts, and presentations arising from NIH Collaboratory Trials without specific aims of being designated as NIH Collaboratory publications or presentations will be provided by NIH Collaboratory Trial investigators in a listing submitted biannually to the Coordinating Center. The NIH Collaboratory Trial investigator or Publications Committee chair may request that a manuscript be shared for comment due to high interest.
- 6. All NIH Collaboratory Trial manuscripts submitted to the Coordinating Center before publication will remain confidential and will not be shared outside the Publications Committee membership and staff, NIH Collaboratory Trial principal investigators (if applicable), Coordinating Center principal investigators, and the authors.

C. After Publication or Presentation

- 1. Once an NIH Collaboratory Trial manuscript, abstract, or presentation has been accepted for publication or presentation, the lead author or their designee will inform the Coordinating Center staff and provide them with a final copy of the accepted publication or presentation.
- 2. NIH Collaboratory Trial principal investigators or their designees will submit quarterly updates to the Coordinating Center about all publication and presentation activity related to the project.

V. Core Working Group Publications and Presentations

A. Authorship

Decisions regarding the content and authorship of Core Working Group publications and presentations will be made by the members of the Core Working Group(s) involved in creation of the work. All members of the respective Core Working Group(s) will be given an opportunity for comment. If 10 business days pass without feedback, assent to that version of the manuscript will be assumed.

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B. Review

1. Core Working Group manuscripts will be submitted by the authors to the Coordinating Center (nih-collaboratory@dm.duke.edu) for delivery to the Publications Committee staff, who will have 10 business days to collect and forward comments and suggestions from (a) Core Working Group members, (b) Publications Committee members, and (c) any additional Coordinating Center members involved. There may be circumstances (for example, if an author is an NIH staff member) wherein an NIH Institute, Center, or Office would require review before submission. Authors are expected to work with NIH staff to determine whether such a review is required and, if so, to ensure that the requirement is addressed before submission.

Abstracts and presentations should acknowledge NIH Pragmatic Trials Collaboratory support but need not be submitted to the Coordinating Center in advance. See Section IX of this policy for funding acknowledgment language.

- 2. For draft Core Working Group manuscripts that include descriptions of or details about an NIH Collaboratory Trial, the Publications Committee staff will share the manuscript with the NIH Collaboratory Trial's principal investigator. The NIH Collaboratory Trial's principal investigator will be given the opportunity to review the pertinent section for accuracy, comment on the portrayal of their trial, and offer corrections of errors, but will not exercise editorial control over other sections of the manuscript. If no response is received from the NIH Collaboratory Trial's principal investigator within 10 business days of receiving the manuscript for review, assent and approval will be assumed. In the event of disagreements between the authors and the NIH Collaboratory Trial's principal investigator, the issue will be referred to the chair of the NIH Collaboratory Steering Committee for adjudication.
- 3. An additional 10 days may be taken by the Publications Committee after comments are generated to adjudicate any resulting editorial changes.
 - a. Where intractable differences of opinion remain, suggested changes from all sides will be forwarded to the designated authors.
 - b. Comments from any Publications Committee member, NIH or otherwise, will not constitute official positions of the NIH.
- 4. Final editorial authority and the decision to publish will reside with the designated authors, although the Publications Committee will have the right

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to vote on the designation of the final proposed manuscript as an NIH Collaboratory publication or presentation.

- a. Manuscripts, abstracts, and presentations that are not designated as NIH Collaboratory publications or presentations will not be listed on the NIH Collaboratory website and will not benefit directly from any public relations or news items published on the NIH Collaboratory website.
- 5. In the event that authors of a publication must meet an impending deadline for a special issue or call for papers or respond to an invitation to submit within a brief period of time, authors should contact the Coordinating Center to request expedited review of the manuscript. If an expedited review is not possible before submission, the authors will send the manuscript to the Coordinating Center within 10 business days after submission; the Publications Committee will still consider whether the manuscript will be designated as an NIH Collaboratory publication.
- 6. All Core Working Group manuscripts submitted to the Coordinating Center before publication will remain confidential and will not be shared outside the Publications Committee membership and staff, NIH Collaboratory Trial principal investigators (if applicable), Coordinating Center principal investigators, and the author(s).

C. After Publication

Once a Core Working Group manuscript, abstract, or presentation has been accepted for publication or presentation, the lead author or their designee will inform the Coordinating Center staff, who will notify the NIH program official and the Publications Committee staff.

VI. Core Working Group Guidance Documents

A. Authorship

Decisions regarding the content and authorship of guidance documents will be made by the members of the Core Working Group(s) or ad hoc working group involved in creation of the work. All members of the respective working group(s) will be given an opportunity for comment. If 10 business days pass without feedback, assent to that version of the guidance document will be assumed.

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B. Review

- 1. Guidance documents will be submitted by the author(s) to the Coordinating Center (nih-collaboratory@dm.duke.edu) for delivery to the Publications Committee staff, who will have 10 business days to collect and forward comments and suggestions from (a) working group members, (b) Publications Committee members, and (c) any additional Coordinating Center members involved. There may be circumstances (for example, if an author is an NIH staff member) wherein an NIH Institute, Center, or Office would require review before publication of the guidance document. Authors are expected to work with NIH staff to determine whether such a review is required and, if so, to ensure that the requirement is addressed before submission.
- 2. For guidance documents that include descriptions of or details about an ongoing or completed NIH Collaboratory Trial, the Publications Committee staff will share the document with the trial's principal investigator. The trial's principal investigator will be given the opportunity to review the pertinent section for accuracy, comment on the portrayal of their trial, and offer corrections of errors, but will not otherwise exercise editorial control over the document. If no response is received from the principal investigator within 10 business days of receiving the guidance document, assent and approval will be assumed. In the event of disagreements between the authors and the NIH Collaboratory Trial's principal investigator, the issue will be referred to the chair of the NIH Collaboratory Steering Committee for adjudication.
- 3. An additional 10 days may be taken by the Publications Committee after comments are generated to adjudicate any resulting editorial changes.
 - a. Where intractable differences of opinion remain, suggested changes from all sides will be forwarded to the authors.
 - b. Comments from any Publications Committee member, NIH or otherwise, will not constitute official positions of the NIH.
- 4. Final editorial authority and the decision to publish the guidance document will reside with the authors.

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VII. Core Working Group Tools, Best Practice Documents, and Other Resources

A. Authorship

Decisions regarding the content (and authorship, if applicable) of tools, best practice documents, and other resources will be made by the members of the Core Working Group(s) or ad hoc working group involved in the creation of the work. All members of the respective Core Working Group(s) or ad hoc working group will be given an opportunity for comment. If 10 business days pass without feedback, assent to that version of the document will be assumed.

B. Review

- 1. Tools, best practice documents, and other resources will be submitted by the authors to the Coordinating Center (nih-collaboratory@dm.duke.edu) for delivery to Publications Committee staff at least 10 business days before publication to allow staff to review the document to ensure the use of required disclaimer language, if applicable, and to check for mentions of NIH Collaboratory Trials. The committee staff will respond within 10 business days.
- 2. For tools, best practice documents, and other resources that include descriptions of or details about an ongoing or completed NIH Collaboratory Trial, committee staff will share the document with the trial's principal investigator. The trial's principal investigator will be given the opportunity to review the pertinent section for accuracy, comment on the portrayal of their trial, and offer corrections of errors, but will not exercise editorial control over other sections of the document. If no response is received from the principal investigator within 10 business days of receiving the document, assent and approval will be assumed. In the event of disagreements between the authors and the NIH Collaboratory Trial's principal investigator, the issue will be referred to the chair of the NIH Collaboratory Steering Committee for adjudication.
- 3. There may be circumstances (for example, if an author is an NIH staff member) wherein an NIH Institute, Center, or Office for a given NIH Collaboratory Trial would require review of a best practice document before its publication. Authors are expected to work with NIH staff to determine whether such a review is required and, if so, to ensure that the requirement is addressed before publication.

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4. Final editorial authority and the decision to publish will reside with the authors.

VIII. Short Communications by the Coordinating Center

Short communications are produced by the Coordinating Center communications team in consultation with the Coordinating Center leadership. They are prepared in accordance with the Coordinating Center staff's relevant operational processes.

IX. Acknowledgment of NIH Collaboratory Support

A. When to Acknowledge NIH Funding

Authors should only acknowledge NIH awards on manuscripts, abstracts, and presentations when the activities that contributed to the manuscript, abstract, or presentation directly arise from the award and are within the scope of the award being acknowledged. The scope of the award includes the aims, objectives, and purposes of the award, as well as the methodology, approach, analyses, or other activities; and the tools, technologies, and timeframes needed to meet the award's objectives.

When considering whether acknowledgment of an NIH award is necessary or appropriate, the authors should consider the following questions:

- Did activities supported by the award contribute to the manuscript, abstract, or presentation?
- Did the award support the conduct of experiments or the analysis of data that contributed to the publication?
- Is there a clear and apparent link between the work described in the manuscript, abstract, or publication with the aims and objectives of the award?

If the answer is yes to any of these questions, the NIH support should be acknowledged.

See also Communicating and Acknowledging Federal Funding at https://grants.nih.gov/policy/federal-funding.htm.

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B. Preferred Acknowledgment Language for Manuscripts

1. All manuscripts **derived from the work of one or more Core Working Groups or the Coordinating Center** should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP). This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here.] The content is solely the responsibility of the authors and does not necessarily represent the official views of the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH or its HEAL Initiative."

- 2. Manuscripts **derived from one or more NIH Collaboratory Trials**:
 - a. All manuscripts derived from one or more NIH Collaboratory Trials, not including trials supported through the NIH HEAL Initiative, should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory by cooperative agreement [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding or oversight]. This work also received logistical and technical support from the NIH Pragmatic Trials Collaboratory Coordinating Center through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases

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(NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP). The content is solely the responsibility of the authors and does not necessarily represent the official views of [Institute, Center, or Office providing funding or oversight] or the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH."

b. All manuscripts derived from one or more **NIH HEAL Initiative**— **supported NIH Collaboratory Trials** should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through the NIH HEAL Initiative under award number [UG3, UH3, and/or R01 grant number] administered by the [Institute, Center, or Office providing oversight]. This work also received logistical and technical support from the PRISM Resource Coordinating Center under award number U24AT010961 from the NIH through the NIH HEAL Initiative. The content is solely the responsibility of the authors and does not necessarily represent the official views of the [Institute, Center, or Office providing oversight] or the NIH or its HEAL Initiative."

- 3. Manuscripts supported by both the Coordinating Center and one or more NIH Collaboratory Trials:
 - a. All manuscripts supported by the Coordinating Center and one or more NIH Collaboratory Trials, not including trials supported through the NIH HEAL Initiative, should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP), and through cooperative agreement [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding

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or oversight]. This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here.] The content is solely the responsibility of the authors and does not necessarily represent the official views of the [Institute, Center, or Office providing funding or oversight] or the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH or its HEAL Initiative."

b. All manuscripts supported by the Coordinating Center and one or more NIH HEAL Initiative-supported NIH Collaboratory Trials should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP), and by the NIH through the NIH HEAL Initiative under award number [UG3, UH3, and/or R01 grant number] administered by the [Institute, Center, or Office providing funding or oversight]. This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here. The content is solely the responsibility of the authors and does not necessarily represent the official views of the [Institute, Center, or Office providing funding or oversight] or the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH or its HEAL Initiative."

4. Manuscripts that cite **multiple sources of support** (for example, a project supported by the Coordinating Center and one or more NIH Institutes, Centers, or Offices) should list funding sources in declining order of proportional support for the given project.

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- 5. Before issuing a press release concerning results, presentations, or publications derived from this research, authors should notify the relevant NIH Institute, Center, or Office in advance to allow for coordination.
- C. Preferred Acknowledgment Language for Posters, Slides, and Other Summary Formats

An abbreviated version of the acknowledgment language may be used in poster presentations, slides, and other summary reports, as described below.

1. All poster presentations, slide presentations, and other summary reports derived from the work of one or more Core Working Groups or the Coordinating Center should include the following acknowledgment:

"This work was supported within the NIH Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from multiple NIH Institutes, Centers, and Offices. This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here.] The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH or its HEAL Initiative."

- 2. Poster presentations, slide presentations, and other summary reports **derived from one or more NIH Collaboratory Trials**:
 - a. All poster presentations, slide presentations, and other summary reports derived from one or more NIH Collaboratory Trials, not including trials supported through the NIH HEAL Initiative, should include the following acknowledgment:

"This work was supported within the NIH Pragmatic Trials Collaboratory by cooperative agreement [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding or oversight]. This work also received logistical and technical support from the program's Coordinating Center through cooperative agreement U24AT009676 from multiple NIH Institutes, Centers, and Offices. The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH."

 All poster presentations, slide presentations, and other summary reports derived from one or more NIH HEAL Initiative-supported NIH Collaboratory Trials should include the following

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acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through the NIH HEAL Initiative under award number [UG3, UH3, and/or R01 grant number] administered by the [Institute, Center, or Office providing oversight]. This work also received logistical and technical support from the PRISM Resource Coordinating Center under award number U24AT010961 from the NIH through the NIH HEAL Initiative. The content is solely the responsibility of the authors and does not necessarily represent the official views of the [Institute, Center, or Office providing oversight] or the NIH or its HEAL Initiative."

- 3. Poster presentations, slide presentations, and other summary reports supported by both the Coordinating Center and one or more NIH **Collaboratory Trials:**
 - All poster presentations, slide presentations, and other summary a. reports supported by the **Coordinating Center and one or more NIH** Collaboratory Trials, not including trials supported through the **NIH HEAL Initiative**, should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from multiple NIH Institutes, Centers, and Offices, and through cooperative agreement [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding or oversight]. This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here.] The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH or its HEAL Initiative."

b. All poster presentations, slide presentations, and other summary reports supported by the **Coordinating Center and one or more NIH HEAL Initiative-supported NIH Collaboratory Trials** should include the following acknowledgment:

"This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from multiple NIH Institutes, Centers, and Offices, and

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by the NIH through the NIH HEAL Initiative under award number [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding or oversight]. This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here.] The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH or its HEAL Initiative."

4. Poster presentations, slide presentations, and other summary reports that cite **multiple sources of support** (for example, a project supported by the Coordinating Center and one or more NIH Institutes, Centers, or Offices) should list funding sources in declining order of proportional support for the given project.



NIH Collaboratory Trial Publications

(See reverse side for Coordinating Center and Core Publications)

The NIH Collaboratory Trials are supported by NIH Institutes, Centers, or Offices through either the NIH Pragmatic Trials Collaboratory or the NIH HEAL Initiative. The Coordinating Center provides logistical and technical support for all NIH Collaboratory Trials. For NIH Collaboratory Trial publications, please complete these steps, as required by our policies and funding.

Before Publication



Choose option A, B, or C for the funding acknowledgment.

Option A: Your work is supported solely by one or more NIH Collaboratory Trials, not including trials supported through the NIH HEAL Initiative.

Use the following language: "This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory by cooperative agreement [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding or oversight]. This work also received logistical and technical support from the NIH Pragmatic Trials Collaboratory Coordinating Center through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP). The content is solely the responsibility of the authors and does not necessarily represent the official views of [Institute, Center, or Office providing funding or oversight] or the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH."

Option B: Your work is supported solely by one or more NIH Collaboratory Trials supported through the NIH HEAL Initiative.

Use the following language: "This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through the NIH HEAL Initiative under award number [UG3, UH3, and/ or R01 grant number] administered by the [Institute, Center, or Office providing oversight]. This work also received logistical and technical support from the PRISM Resource Coordinating Center under award number U24AT010961 from the NIH through the NIH HEAL Initiative. The content is solely the responsibility of the authors and does not necessarily represent the official views of the [Institute, Center, or Office providing oversight] or the NIH or its HEAL Initiative."

Option C: Your work has multiple sources of support.

For work with multiple sources of support—such as multiple NIH Collaboratory Trials, a collaboration between an NIH Collaboratory Trial and the Coordinating Center or a Core Working Group, supplemental funding for specific activities, or support from outside the NIH Collaboratory—email us at nih-collaboratory@duke.edu. We're here to help!



Does your work include a description of another NIH Collaboratory Trial?

If yes, please allow the principal investigator of the other trial to review your work. This courtesy review will be limited to the factual

accuracy of your description of their work. Allow at least 2 weeks in advance of your initial journal submission.

Coordinating Center staff can facilitate this process and convey draft manuscripts to NIH Collaboratory Trial investigators for their confidential review. Email us at nih-collaboratory@duke.edu and include "Manuscript Review" in the subject heading.



Notify the Coordinating Center.

It's easy! Email us at nih-collaboratory@duke.edu. Please allow 1 week for us to review your acknowledgment statement. Coordinating Center staff and the

publications committee are also available to provide advice, suggestions, and help with dissemination, as needed.

After Publication



Let us know your work has been published.

Email us at nih-collaboratory@duke.edu.

We track and report on publications as part of the NIH Collaboratory grants. We also want to share and promote your work!



NIH Collaboratory Coordinating Center and Core Publications

(See reverse side for NIH Collaboratory Trial Publications)

For Coordinating Center and Core Working Group publications, please complete these steps, as required by our policies and funding.

Before Publication



Choose option A or B for your funding acknowledgment.

Option A: Some or all of your work is supported by the Coordinating Center or a Core Working Group.

Include the following language: "This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP). This work was also supported by the NIH through the NIH HEAL Initiative under award number U24AT010961. [If supplemental funding was provided for specific activities, then the Institute, Center, or Office providing the support should be acknowledged here.] The content is solely the responsibility of the authors and does not necessarily represent the official views of the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH or its HEAL Initiative."

Option B: Your work has multiple sources of support in addition to the Coordinating Center or a Core Working Group.

For work with multiple sources of support in addition to the Coordinating Center or a Core Working Group—such as multiple NIH Collaboratory Trials, a collaboration between an NIH Collaboratory Trial and the Coordinating Center or a Core Working Group, supplemental funding for specific activities, or support from outside the NIH Collaboratory—email us at nih-collaboratory@duke.edu. We're here to help!

After Publication

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Let us know your work has been published. Email us at nih-collaboratory@duke.edu.

We track and report on publications as part of the NIH Collaboratory grants. We also want to share and promote your work!





NIH Collaboratory Trial Publications

(See reverse side for Coordinating Center and Core Publications)

The NIH Collaboratory Trials are supported by NIH Institutes, Centers, or Offices through either the NIH Pragmatic Trials Collaboratory or the NIH HEAL Initiative. The Coordinating Center provides logistical and technical support for all NIH Collaboratory Trials. For NIH Collaboratory Trial publications, please complete these steps, as required by our policies and funding.

Before Publication



Choose option A, B, or C for the funding acknowledgment.

Option A: Your work is supported solely by one or more NIH Collaboratory Trials, not including trials supported through the NIH HEAL Initiative.

Use the following language: "This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory by cooperative agreement [UG3, UH3, and/or R01 grant number] from the [Institute, Center, or Office providing funding or oversight]. This work also received logistical and technical support from the NIH Pragmatic Trials Collaboratory Coordinating Center through cooperative agreement U24AT009676 from the National Center for Complementary and Integrative Health (NCCIH), the National Institute of Allergy and Infectious Diseases (NIAID), the National Cancer Institute (NCI), the National Institute on Aging (NIA), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute of Nursing Research (NINR), the National Institute of Minority Health and Health Disparities (NIMHD), the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the NIH Office of Behavioral and Social Sciences Research (OBSSR), and the NIH Office of Disease Prevention (ODP). The content is solely the responsibility of the authors and does not necessarily represent the official views of [Institute, Center, or Office providing funding or oversight] or the NCCIH, NIAID, NCI, NIA, NHLBI, NINR, NIMHD, NIAMS, OBSSR, or ODP, or the NIH."

Option B: Your work is supported solely by one or more NIH Collaboratory Trials supported through the NIH HEAL Initiative.

Use the following language: "This work was supported within the National Institutes of Health (NIH) Pragmatic Trials Collaboratory through the NIH HEAL Initiative under award number [UG3, UH3, and/ or R01 grant number] administered by the [Institute, Center, or Office providing oversight]. This work also received logistical and technical support from the PRISM Resource Coordinating Center under award number U24AT010961 from the NIH through the NIH HEAL Initiative. The content is solely the responsibility of the authors and does not necessarily represent the official views of the [Institute, Center, or Office providing oversight] or the NIH or its HEAL Initiative."

Option C: Your work has multiple sources of support.

For work with multiple sources of support—such as multiple NIH Collaboratory Trials, a collaboration between an NIH Collaboratory Trial and the Coordinating Center or a Core Working Group, supplemental funding for specific activities, or support from outside the NIH Collaboratory—email us at nih-collaboratory@duke.edu. We're here to help!



Does your work include a description of another NIH Collaboratory Trial?

If yes, please allow the principal investigator of the other trial to review your work. This courtesy review will be limited to the factual

accuracy of your description of their work. Allow at least 2 weeks in advance of your initial journal submission.

Coordinating Center staff can facilitate this process and convey draft manuscripts to NIH Collaboratory Trial investigators for their confidential review. Email us at nih-collaboratory@duke.edu and include "Manuscript Review" in the subject heading.



Notify the Coordinating Center.

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