

## D&I Training and Emerging Opportunities

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# Outline

- D&I at NIH: Portfolios
- D&I at NIH: Training Opportunities
- Emerging Opportunities in Implementation Science

# D&I Science at NIH: Portfolios

- Despite increasing investments, no coherent way to present D&I science portfolio at a NIH-wide level
  - Grants reviewed by the DIRH (now SIHH) study section
  - But, many ICs have their own FOAs that are reviewed in house or by SEP
- D&I will be new RCDC term in 2021
  - Opportunity for IC input as part of the SME team
  - Building on OBSSR-led portfolio analysis

# NICHD Funded Grants from DIRH Funding Announcements

FY	TITLE	PI	Program Official
2017	Implementation Strategies and Effectiveness for Walking School Bus Programs	CARLSON, JORDAN A	Karen Lee
2017	DEVELOPMENT AND EVALUATION OF A BEDSIDE GUIDELINE ENGINE FOR SEVERE TRAUMATIC BRAIN INJURY	PINEDA, JOSE ALFRED	Tamara Jenkins
2018	Addressing Obesity in Early Care and Education Settings	BASTANI, ROSHAN	Layla Esposito
2018	Spreading the Integrated District Evidence-to-Action Program for Neonatal Mortality Reduction (IDEAs) in Mozambique	SHERR, KENNETH	Marion Koso-Thomas
2018	Dissemination and Implementation of the Safe Environment for Every Kid(SEEK) Model for Preventing Child Abuse and Neglect	DUBOWITZ, HOWARD	Valerie Maholmes
2018	National Implementation of FOYC+CImPACT in the Bahamas: implementation strategies and improved outcomes.	WANG, BO	Sonia Lee

# NICHD Funded Grants from DIRH Funding Announcements

FY	TITLE	PI	Program Official
2019	Improving Health by Linking Postpartum and Well-Baby Visits	HAIDER, SADIA	Roz King
2019	Factors that influence the implementation and effectiveness of a patient safety bundle to reduce low-risk cesarean deliveries	CALLAGHAN-KORU, JENNIFER ANNE	Menachem Miodovnik
2020	Implementation of an Evidence Based Parentally Administered Intervention for Preterm Infants.	WHITE-TRAUT, ROSEMARY C	Maurice Davis
2020	Dissemination, Implementation, and Effectiveness of an Intervention to Prevent Intimate Partner Violence	DECKER, MICHELE R	Layla Esposito
2020	Parks & Pediatrics Fit Together: Translating knowledge into action for child obesity treatment in partnership with Parks and Recreation	SKINNER, ASHELEY COCKRELL	Layla Esposito
2020	Adolescent Wellness Visits to Reduce Health Risks	BAUMGARTNER, JOY NOEL	Sonia Lee

# NICHD D&I Portfolio

- Other Efforts
  - [AHISA](#): Sonia Lee
  - [PATC3H](#): Sonia Lee, Bill Kapogiannis, Nahida Chakhtoura
- Areas currently represented:
  - Childhood obesity
  - Child maltreatment and dating violence
  - Pregnancy/postpartum maternal and infant health
  - Global HIV treatment and prevention
- Future opportunities for growth?

# D&I Research Training: NIH-sponsored

- TIDIRH (2011-2019):
  - Begun to address lack of training opportunities at the time (OBSSR, NIMH, NCI, VA)
  - Over time, more ICs involved and demand increased
  - Sunset in 2019 given increasing opportunities in the field
    - [TIDIRC open access](#)
    - OBSSR-funded R25 [Implementation Science Scholars](#) (IS2) at Wash. U; chronic disease and health inequity focus
- Disease focused opportunities:
  - Implementation Research Institute ([IRI](#)) at Wash U (NIMH, NIDA)
  - [TIDIRC](#): NCI led
  - MT-DIRC: Cancer focused but no longer active

# D&I Research Training: University-based and Other Opportunities

- Since inception of TIDRH, range of opportunities has increased substantially
  - Predoctoral and postdoctoral fellowships
  - Graduate courses, certificates, Masters and Doctoral degrees
  - Self-guided online courses and other resources

# Emerging Opportunities: Shifting Landscape

- Dual pandemics of COVID and structural racism
- Impacts on maternal and child health
  - Maternal mortality
  - School closings
  - Family violence
  - Women leaving the work force; child-care challenges
  - Missed vaccinations and preventive care
  - Developmental challenges particularly for early childhood and adolescents
- Increasing recognition of the potential opportunities to leverage implementation science to improve maternal and child health

# Community Engaged Research

- CE and D&I research share ultimate goals and inherent challenges
  - To achieve broad, sustainable use of a program/policy/practice you need inclusivity, partnerships, and shared ownership/buy-in among stakeholders
- ***YET....***
- Each tradition has its own theory/methods/principles and emphasis
  - Separate, active histories at NIH
  - Recent survey of NIH-funded CBPR researchers identified their work as primarily translation and/or health services research, not D&I research

# Community Engagement and IS

## Advancing Dissemination and Implementation Sciences in CTSA's: A Working Group

About Members Meetings Deliverables

### Membership

Per the Guidance for CTSA Program Groups document, all hubs are allowed one voting member on each Enterprise Committee (EC). All EC Full Membership calls are open and anyone within the consortium can attend.

You are not currently logged in. [Log in](#) to see additional information or to become a member.

### Purpose

The purpose of this working group is to meet both the conceptual as well as practical challenges to advancing the utilization of D&I across the translational science spectrum. Our agenda builds on a highly productive and prior version of this Working Group which articulated the need and desire for better integration of D&I sciences within CTSA's. Our group will continue the previous work by focusing on the "how" of D&I integration within CTSA hubs nationally, and on creating and disseminating practical tools, resources, and insights that CTSA's can use to fully realize the potential of D&I to enhance CTSA's' mission.

### Goals

To enhance translation by bringing to bear in CTSA's the insights, principles, frameworks, and strategies of dissemination and implementation sciences

To provide conceptual and practical guidance that CTSA hubs across the consortium can rely on for support in D&I integration and capacity building.

## Opportunities and challenges in conducting community-engaged dissemination/implementation research

Cheryl L. Holt, PhD ✉, David A. Chambers, DPhil

*Translational Behavioral Medicine*, Volume 7, Issue 3, September 2017, Pages 389–392,  
<https://doi.org/10.1007/s13142-017-0520-2>

**Published:** 07 September 2017



## Adolescent HIV Prevention and Treatment Implementation Science Alliance (AHISA)

The **Adolescent HIV Prevention and Treatment Implementation Science Alliance (AHISA)** aims to enhance the effective use of evidence and help overcome implementation challenges related to prevention, screening and treatment of HIV among adolescents (ages 15 to 24) in sub-Saharan Africa by catalyzing collaboration and communication among implementation scientists, program implementers and policymakers. The [Center for Global Health Studies](#) at Fogarty launched the initiative in collaboration with the [Office of the Global AIDS Coordinator](#) and other NIH Institutes and Centers.

The goals of the Alliance are to:

- provide a platform for cross-fertilization and exchange of ideas and information among implementation scientists and other stakeholders focusing on different aspects of HIV in adolescents;
- enable the research to be better informed by programmatic challenges and questions;
- inform policymakers of promising evidence and encourage use of the data in decision making; and
- extend the reach and impact of implementation science related to adolescent HIV prevention and treatment.

[Annual Forum](#) | [Small Project Awards](#) | [Members](#) | [Steering Committee](#)

[Alliance Annual Forum](#)

### Related News

- [Commentary: Fostering successful and sustainable collaborations to advance implementation science: the adolescent HIV prevention and treatment implementation science alliance](#) [\[Open access\]](#), co-authored by Fogarty staff Special Issue of the *Journal of the International AIDS Society (JIAS)*, August 31, 2020
- [NIH funds study to prevent, treat HIV among adolescents in poor countries](#)

## CFAR/ARC Ending the HIV Epidemic Supplement Awards

In September 2020, NIH announced supplemental awards to institutions participating in the NIH-funded Centers for AIDS Research (CFAR) program and [NIMH AIDS Research Centers \(ARC\)](#) [\[Open access\]](#) program. These awards will support research to enhance the implementation science knowledge base needed for [Ending the HIV Epidemic: A Plan for America](#) [\[Open access\]](#). Some awards continue and expand on pilot projects funded in 2019, while others support new projects. All projects involve close collaboration between CFAR/ARC investigators and local health officials and community groups in [priority areas](#) [\[Open access\]](#).

[Ending the HIV Epidemic 2020 Supplements: One-Year Awards for Team-Initiated Implementation Research](#) [\[Open access\]](#)

[Ending the HIV Epidemic 2020 Supplements: Two-Year Awards](#) [\[Open access\]](#)

[Ending the HIV Epidemic 2020 Supplements: Reaching Cisgender Heterosexual Women with PrEP](#) [\[Open access\]](#)

[Ending the HIV Epidemic 2020 Supplements: Evaluating and Developing Data-Driven Messages and Communication Strategies](#) [\[Open access\]](#)

[Coordinating and Consulting Group](#) [\[Open access\]](#)

[Implementation Science Consultation Hubs](#) [\[Open access\]](#)

[Ending the HIV Epidemic 2019 Supplements](#) [\[Open access\]](#)

# Health Equity, Community Engagement and Implementation Science

Stakeholder engagement and/or community engaged research are key strategies to ensuring that research has increased potential to address social determinants of health (including structural racism) and ultimately impact population health and health equity

# Five Recommendations for How Implementation Science Can Better Advance Equity

Implementation researchers, practitioners, and funders considered how to better support equitable implementation and outcomes. They make five recommendations from changing how we talk about implementation science to how we execute it and who we engage along the way.

POSTED  
Apr 05, 2019

BY  
Kim DuMont Allison Metz,  
Ph.D. Beadsie Woo

A fundamental goal of implementation science is to integrate research and practice experience in ways that improve the outcomes of those being served (see [Estabrooke and colleagues](#)). For this to happen, implementation scientists must work with all communities and embrace the diverse experiences that both drive and shape implementation efforts. This requires an explicit commitment to equity.

## Related Content

PROFESSIONAL DEVELOPMENT

### What is Innovation for D and Practice?

Dec 17, 2020

## Implementation Science to Address Health Disparities During the Coronavirus Pandemic

Karla I. Galaviz,<sup>1</sup> Jessica Y. Breland,<sup>2</sup> Mechelle Sanders,<sup>3</sup> Khadijah Breathett,<sup>4</sup> Alison Cerezo,<sup>5</sup> Oscar Gil,<sup>6</sup> John M. Hollier,<sup>7</sup> Cassandra Marshall,<sup>8</sup> J. Deanna Wilson,<sup>9</sup> and Utibe R. Essien<sup>9</sup>

### Abstract

The coronavirus disease 2019 (COVID-19) pandemic is disproportionately affecting racial and ethnic minorities. In the United States, data show African American, Hispanic, and Native American populations are overrepresented among COVID-19 cases and deaths. As we speed through the discovery and translation of approaches to fight COVID-19, these disparities are likely to increase. Implementation science can help address disparities by guiding the equitable development and deployment of preventive interventions, testing, and, eventually, treatment and vaccines. In this study, we discuss three ways in which implementation science can inform these efforts: (1) quantify and understand disparities; (2) design equitable interventions; and (3) test, refine, and retest interventions.

**Keywords:** health disparities; knowledge translation; equity; health justice

## Opportunities to Advance Health Equity through Implementation Science

[Implementation Science](#) / [Blog](#) / [Opportunities to Advance Health Equity through Implementation Science](#)



[April Oh, PhD, MPH](#) | January 2021



Never before has public health become such a part of our daily discourse. Living in a global pandemic, with every infection interconnected we are as a community, nation, and world. It is also in this pandemic where we are witnessing stark inequality by differences in access to resources and racial injustices which have been shaped and enforced by physical, historical, and social factors.

In response to these inequalities, there has been an urgency in prioritization of health equity from the broader public and from our own research and practice community. As an implementation science (IS) community, this new year is an opportunity to actively engage in how we tackle this as a field in cancer prevention and control.

As we do so, here are a few questions I would like to pose for us to consider in the new year.

### 1. How can we incorporate social determinants of health (SDoH) into implementation science studies?

Social determinants of health (SDoH) are the conditions in which people are born, grow, live, work, and age, including

For More C

[Health Dispa](#)



National Institutes of Health  
Office of Behavioral and Social Sciences Research

# Policy Implementation Science

The study of how implementation science may contribute to understanding the translation of scientific evidence to health-related policy in governmental and nongovernmental sector

From Ali Abazeed, NCI Presentation at D&I Training for NIH Staff, December 2020

RESEARCH

Open Access



# A review of policy dissemination and implementation research funded by the National Institutes of Health, 2007–2014

Jonathan Purtle<sup>1\*</sup>, Rachel Peters<sup>1</sup> and Ross C. Brownson<sup>2</sup>

## Abstract

**Background:** Policy has a tremendous potential to improve population health when informed by research evidence. Such evidence, however, typically plays a suboptimal role in policymaking processes. The field of policy dissemination and implementation research (policy D&I) exists to address this challenge. The purpose of this study was to: (1) determine the extent to which policy D&I was funded by the National Institutes of Health (NIH), (2) identify trends in NIH-funded policy D&I, and (3) describe characteristics of NIH-funded policy D&I projects.

**Methods:** The NIH Research Portfolio Online Reporting Tool was used to identify all projects funded through D&I-focused funding announcements. We screened for policy D&I projects by searching project title, abstract, and term fields for mentions of “policy,” “policies,” “law,” “legal,” “legislation,” “ordinance,” “statute,” “regulation,” “regulatory,” “code,” or “rule.” A project was classified as policy D&I if it explicitly proposed to conduct research about the content of a policy, the process through which it was developed, or outcomes it produced. A coding guide was iteratively developed, and all projects were independently coded by two researchers. ClinicalTrials.gov and PubMed were used to obtain additional project information and validate coding decisions. Descriptive statistics—stratified by funding mechanism, Institute, and project characteristics—were produced.

**Results:** Between 2007 and 2014, 146 projects were funded through the D&I funding announcements, 12 (8.2 %) of which were policy D&I. Policy D&I funding totaled \$16,177,250, equivalent to 10.5 % of all funding through the D&I funding announcements. The proportion of funding for policy D&I projects ranged from 14.6 % in 2007 to 8.0 % in 2012. Policy D&I projects were primarily focused on policy outcomes (66.7 %), implementation (41.7 %), state-level policies (41.7 %), and policies within the USA (83.3 %). Tobacco (33.3 %) and cancer (25.0 %) control were the primary topics of focus. Many projects combined survey (58.3 %) and interview (33.3 %) methods with analysis of archival data sources.

**Conclusions:** NIH has made an initial investment in policy D&I research, but the level of support has varied between Institutes. Policy D&I researchers have utilized a variety of designs, methods, and data sources to investigate the

# Policy Implementation Science: A Critical Component of Evidence Translation

[Implementation Science](#) / [Training & Education](#) / [Webinars](#) / [Policy Implementation Science: A Critical Component of Evidence Translation](#)

**Date:** Tuesday, October 27, 2020

**Time:** 1:00-2:30 PM ET

**Category:** Policy, Priority Topic

This webinar is the first of a five-part series designed to explore Policy Implementation Science and to reflect on what this area of work can contribute to evidence translation. Each session will highlight speakers who work in policy research and applied policy settings. This initial webinar will lay the groundwork for the series and consider the role of implementation science across the policy life cycle.

Archived

Thank you for this webinar. recordings are available within one week of sessions.

[View T](#)

# Other Emerging Opportunities in Implementation Science

- De-Implementation
- Sustainability
- Scale-up
- Adaptation
- Learning from global health
  - [Fogarty webinar series](#) on “global to local” lessons learned

# Resources

- Lists of Training Opportunities:\*
  - [Society for Implementation Research Collaboration \(SIRC\)](#): (psychosocial interventions; psychology focused)
  - [Implementation Science Exchange \(IMPSCIX\)](#)
- General NIH Resources:
  - [NCI implementation science](#)
  - [ODP D&I research](#)
  - [Fogarty implementation science](#)

*\*Links are being provided for information only and should not imply endorsement of any specific non-NIH sponsored training opportunity.*

## Training Institute for Dissemination and Implementation Research in Cancer (TIDIRC) OpenAccess

Home / Training & Education / Training in Cancer / Training Institute for Dissemination and Implementation Research in Cancer (TIDIRC) OpenAccess



TIDIRC OpenAccess makes the online training materials used in the TIDIRC Facilitated Course open to the public. The free, online materials provide an overview to dissemination and implementation (D&I) research. Each module serves as an introduction to fundamental terms, concepts, and principles of D&I with examples of their application.

The course includes six modules:

- [Module 1: Introduction to Dissemination & Implementation Science](#)
- [Module 2: Fidelity & Adaptation of Interventions in Implementation Science](#)
- [Module 3: Implementation Science Models, Theories, & Frameworks](#)
- [Module 4: Implementation Science Measures](#)
- [Module 5: Study Designs in Implementation Science](#)
- [Module 6: Implementation Strategies](#)

## Webinars

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Register for upcoming webinars and view archived sessions from the Implementation Science Webinars series and Research to Reality.



### Implementation Science Webinars

Listen in as leaders in the field discuss advanced dissemination and implementation research topics and answer questions from the community.



### Research to Reality (R2R) Cyber Seminars

Research to Reality (R2R) Cyber Seminars bring together cancer control practitioners and researchers to discuss moving evidence-based programs into practice.

EVENT

## 12th Annual Conference on the Science of Dissemination and Implementation in Health

Raising the bar on the rigor, relevance, and rapidity of dissemination and implementation science.

# Thank You!

Questions? [dara.blachman-demner@nih.gov](mailto:dara.blachman-demner@nih.gov)