

Dissemination and Implementation Research in Health

An Overview of PARs 06-520, 06-521, 07-086

David A. Chambers, D.Phil.

Associate Director, Dissemination and Implementation Research

National Institute of Mental Health

Overview

- The Program Announcements
- Special Emphasis Panel
- Annual “State of the Science” meetings
- Key NIH Program Contacts

TRANS-NIH PARs

The Trans-NIH D&I PARs

- Dissemination and Implementation (D&I) in Health
 - NIMH, NCI, NHLBI, NIDA, NIAAA, NIDCR, NIDCD, NINR, OBSSR, ODS
- R03 (PAR-06-520)
- R21 (PAR-06-521)
- R01 (PAR-07-086)

- Submission every other round
 - Next Submission Date: May 22, 2009

- TA meeting webcast: <http://videocast.nih.gov/Summary.asp?File=13716>
 - 2009 TA meeting follows this conference

Dissemination and Implementation Research

- **Dissemination** is “the targeted distribution of information and intervention materials to a specific public health or clinical practice audience.”
- **Implementation** is “the use of strategies to adopt and integrate evidence-based health interventions and change practice patterns within specific settings.”

Adapted from Lomas (1993)

EVIDENCE-BASED PRACTICE

How do we improve the capacity of providers to use research to best deliver care to consumers/patients?

INTEGRATION

**EVIDENCE-BASED/
RESEARCH-TESTED/
EFFECTIVE PRACTICES**

How do we improve the uptake of practices demonstrated to improve consumer/patient outcomes?

INTEGRATION

**INFORMED PUBLIC HEALTH/
CLINICAL
DECISION-MAKING**



EVIDENCE-BASED PRACTICE

**EVIDENCE-BASED/
RESEARCH-TESTED/
EFFECTIVE PRACTICES**

**DISSEMINATIO
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IMPLEMENTATION

INTEGRATION

**INFORMED PUBLIC HEALTH/
CLINICAL
DECISION-MAKING**

INTEGRATION

Dissemination Research Topics

- Analysis of factors influencing the **creation, packaging, transmission** and **reception** of valid health research knowledge
- Experimental studies to test the **effectiveness** of individual and systemic **dissemination strategies**, focusing on relevant outcomes (e.g., acquisition of new knowledge, maintenance of knowledge, attitudes about the dissemination strategies, use of knowledge in practice decision-making).
- Studies testing the utility of alternative **dissemination strategies for service delivery systems** targeting rural, minority, and/or other underserved populations.
- Studies on how **target audiences** are defined, and how evidence is packaged for specific target audiences.

Implementation Research Topics

- Studies of efforts to **implement** prevention, early detection, and diagnostic **interventions**, as well as **treatments** or clinical **procedures** of demonstrated efficacy **into existing care systems** to measure the extent to which such procedures are utilized, and adhered to, by providers and consumers.
- Studies on the **fidelity of implementation** efforts, including the identification of components of implementation that will enable fidelity to be assessed meaningfully.
- Longitudinal and follow-up studies on the **factors** that contribute to the **sustainability** of research-based improvements in public health and clinical practice.

Mechanistic D&I Research Questions

- Can effective **measures** be created for key implementation constructs (e.g. supervision, outcomes monitoring, turnover, leadership)?
- How does implementation of effective practice impact **turnover, organizational culture and climate**?
- Is there an effective **model of (re)training** providers in effective practices?
- How can **capacity** be built within **practice settings** to support implementation of effective practices?
- What **data systems** can support ongoing **assessment** of implementation?
- What **models** enhance **sustainability** of effective practices?

Mechanisms for D&I PAR Applications

- 5 criteria to evaluate scientific and technical merit of the application:
 - Significance, approach, innovation, investigator, and environment
- R01 Applications -
 - Traditional NIH research project grant
 - Typically requires pilot data
- R21 Applications -
 - Developmental/Exploratory projects
 - Designed to support innovative ideas
 - Preliminary data not required
- R03 Applications -
 - Pilot projects, so scope is smaller than R01s and usually R21s
 - Preliminary data not required

Special Emphasis Panel

- Collaboration between Center for Scientific Review and NIH Institutes
- SRO: Dr. Melinda Tinkle
- Reviewers recruited for D and I expertise
- Orientation call before receipt of applications
 - Chance for reviewers to ask questions about announcements, discuss key issues before the mtg

State of Science Meetings

- 2007: Building the Science of Dissemination and Implementation in the Service of Public Health
 - Videocast:
<http://videocast.nih.gov/Summary.asp?File=14014>
- 2009: Building Research Capacity to Bridge the Gap Between Science and Service
 - Recognition through PARs—increase capacity
 - Increase the pool of D and I researchers

Key NIH Program Contacts

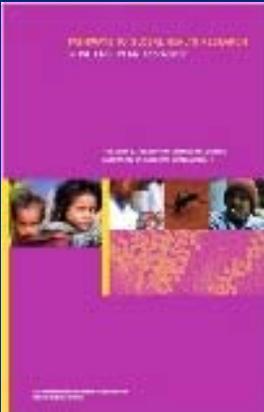
- Redonna K. Chandler, PhD, National Institute on Drug Abuse (NIDA)
- Lawrence J. Fine, MD, DrPH, National Heart, Lung, and Blood Institute (NHLBI)
- Paul Cotton, PhD, National Institute of Nursing Research (NINR)
- Linda Wright, MD, The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
- Cynthia A. Vinson, MPA, National Cancer Institute (NCI)
- Linda Kupfer, PhD, John E. Fogarty International Center

Note: Others listed in PAR-07-086: Dissemination and Implementation Research in Health (R01)

Fogarty International Center

Linda Kupfer, Ph.D.

Acting Director, Division of International Science Policy, Planning & Evaluation



Bridge the training gap in implementation research



- **International Clinical Operational and Health Services Research Training Award AIDS-TB (ICOHRTA)**
PAR-08-155 08/18/09
- **Non-communicable Chronic Diseases Research Training Program (NCoD)**
PAR-08-175 09/29/09; 09/28/10
- **Fogarty International Research Collaborative Award Behavioral and Social Sciences (FIRCA-BSS)**
PAR-08-223 09/29/09; 09/29/10