YEAR-IN-REVIEW:
2019
Mission

To advance the science of implementation; train the next generation of implementation researchers; and to transform health and behavioral health services domestically and globally.

PISCE@LDI is the hub for implementation science research, training, and capacity building at the University of Pennsylvania.
Letter From the Director

It is my great honor and pleasure to reflect on the first year of PISCE@LDI. I am very grateful to LDI, Penn CMH, and the MsHP program for their support in launching PISCE@LDI. This year, we have built community by creating key opportunities to gather implementation scientists across the university. We continue to train the next generation of implementation scientists and to innovate around course offerings through our partnership with the Penn MsHP. In total, the implementation science portfolio included 25 active grants in the 2019 funding year between Penn and CHOP. I look forward to what 2020 will bring!

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Associate Professor
Departments of Psychiatry; Medical Ethics & Health Policy; Medicine
Perelman School of Medicine
Founding Director, Penn Implementation Science Center at the Leonard Davis Institute (PISCE@LDI)
Leadership: Internal Advisory Board

Rachel Werner, MD, PhD
Executive Director, Leonard Davis Institute of Health Economics (LDI)
Robert D. Eilers Professor, Health Care Management, Wharton School
Professor, Medicine, Perelman School of Medicine

David Mandell, ScD
Kenneth Appel Professor and Director, Penn Center for Mental Health
Vice Chair for Faculty Affairs, Department of Psychiatry,
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Wharton School

Raina M. Merchant, MD, MS
Associate Professor, Emergency Medicine, Perelman School of Medicine
Director, Center for Digital Health, Perelman School of Medicine
2019 At a Glance

Membership:
• 240 total members, a >40% increase since the launch of PISCE@LDI in November 2018
• Members come from 7 schools and more than 33 different departments and institutes across the University of Pennsylvania

Events:
• We held six meetings in 2018-19; 17 people attended on average

Grants:
• 25 active NIH grants in FY 2019 between Penn and CHOP

Technical Assistance:
• ~60 internal and external requests for technical assistance in implementation science during a 6 month period

Training:
• We offered MsHP HPR 611 in Spring and Fall 2019 - Total enrollment ~40 individuals
• We offered the MsHP Implementation Science Institute in Summer 2019 training 38 internal and external individuals
Events

2018-2019 Timeline

Late November, 2018
PISCE@LDI officially launches with new webpage & article. ISWG meetings become PISCE@LDI WIP

February 26th, 2019 – WIP
Chris Bonafide (CHOP) leads a conversation about deimplementation

April 2nd, 2019 – WIP
External speaker Lisa Saldana (OSLC) presents on the Stages of Implementation Completion for Evidence-Based Practice (SIC)

May 21st, 2019 – WIP
Meghan Lane-Fall (Penn) presents about selecting an IS framework for your research question

May 29th, 2019 – ISI
External speaker Wynne Norton (ISI) presents on implementation science (over 40 RSVPed in addition to 50 ISI attendees).

December 11th, 2018 – WIP
External speaker Jonathan Purtle (Drexel) presents RWJF grant, “Testing Strategies to Communicate Evidence about Toxic Stress While Minimizing Stigma towards Children and Families”

Late November, 2018
PISCE@LDI officially launches with new webpage & article. ISWG meetings become PISCE@LDI WIP
Graphic has been tested with colorblindness filters to ensure readability.

* In some cases it may be appropriate to move forward with a hybrid Type 1 trial in the absence of effectiveness evidence (e.g., very strong efficacy, indirect evidence supportive of potential effectiveness in context of interest, and/or strong momentum supporting implementation in a health care context).

Fig. 1 “Subway” schematic to guide researchers contemplating implementation studies of evidence-based interventions

Scoping implementation science for the beginner: locating yourself on the “subway line” of translational research, *BMC Medical Research Methodology*, June 2019, Lane-Fall, Curran, & Beidas
Featured Projects

APPLYING BEHAVIORAL INSIGHTS TO MENTAL HEALTH CARE
Led by Drs. Rinad Beidas, David Mandell, and Kevin Volpp, the goal of ALACRITY (Advanced Laboratories for Accelerating the Reach and Impact of Treatments for Youth and Adults with Mental Illness) is to apply insights from behavioral economics and participatory design to advance the science and practice of implementing evidence-based practice for individuals with psychiatric disorders across the lifespan. It includes three exploratory projects and a methods core and represents a collaboration between the Center for Mental Health Policy and Services Research and the Center for Health Incentives and Behavioral Economics.

IMPROVING ASTHMA CARE FOR KIDS
An interdisciplinary team at CHOP and Penn led by Dr. Tyra Bryant-Stephens is studying the effectiveness and implementation of patient-centered interventions designed to increase asthma control in pediatric populations across West Philadelphia.

DE-IMPLEMENTING AN OVERUSED PRACTICE
A team led by Dr. Christopher Bonafide is studying how to de-implement an overused practice. Their goal is to Eliminate Monitor Overuse (EMO: SpO2) in hospitalized infants who are successfully recovering from the common viral lung disease bronchiolitis.

IMPROVING PATIENT HANDOFFS
Led by Dr. Meghan Lane-Fall, the Handoffs and Transition in Critical Care (HATRICC) project, seeks to use implementation science to improve handoffs of patients from the Operating Room (OR) to the Intensive Care Unit (ICU) at Penn Presbyterian and at the Hospital of the University of Pennsylvania.
Featured Publications

**A Repeated Cross-Sectional Study of Clinicians’ Use of Psychotherapy Techniques During 5 Years of a System-Wide Effort to Implement Evidence-Based Practices in Philadelphia**, *Implementation Science*, June 2019, Beidas et al.


**Building Systems to Address Tobacco Use in Oncology: Early Benefits and Opportunities From the Cancer Center Cessation Initiative**, *Journal of the National Comprehensive Cancer Network*, June 2019, Jenssen et al.

**Measuring Overuse of Continuous Pulse Oximetry in Bronchiolitis and Developing Strategies for Large-Scale Deimplementation: Study Protocol for a Feasibility Trial**, *Pilot and Feasibility Studies*, May 2019, Rasooly et al.

**Creating a Community Based Comprehensive Intervention to Improve Asthma Control in a Low-Income, Low-Resourced Community**, *Journal of Asthma*, May 2019, Bryant-Stephens et al.


**Screening for Housing Instability: Providers' Reflections on Addressing a Social Determinant of Health**, *Journal of General Internal Medicine*, April 2019, True et al.

What’s Coming Next

NEW Course Announcement: HPR 612-920
Advanced Topics in Implementation Science in Health

Offered Thursdays, 1PM-4PM
Summer 2: July 2 through August 7

This seminar course offers an opportunity for students to advance their understanding of the thorniest methodological challenges in implementation science. Broadly, topics include study design, study execution, and tensions in the field. The intention will be for attendees to directly apply their learnings to their ongoing or proposed implementation research. This half credit course is intended for those who have already been exposed to the foundational content of implementation science. This can be achieved via HPR 611, the Penn Implementation Science Institute, or other training opportunities such as the NIH TIDIRH/TIDIRC or mentored K awards. Instructor permission is required for enrollment.
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Join Us: https://forms.gle/KrfCGdPUqdDdevi49