



2022

YEAR IN REVIEW

The graphic features a large, light green '2022' in the background. To the right, a dark blue triangle points downwards from the top, and a green triangle points upwards from the bottom. The text 'YEAR IN REVIEW' is centered in a dark blue serif font.

PISCIE@LDI

The text 'PISCIE@LDI' is in a dark blue sans-serif font, with the 'E' highlighted in green. It is positioned below 'YEAR IN REVIEW'.



About us

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



Our 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.

Letter from Meghan Lane-Fall



Dear PISCE@LDI family,

2022 was a year of tremendous growth and change for us at PISCE@LDI. Penn's national and international leadership in implementation science continues to grow, buoyed by paradigm-shifting research in cancer, HIV, acute care, mental health, pediatrics, and maternal health. As implementation science matures, we are well positioned to harness this unique lens to transform care and foster equity in population health outcomes.

Of course, we must acknowledge our change in leadership; Founding Director Rinad Beidas, PhD left Penn in summer 2022 to become the Ralph Seal Paffenbarger Professor and Chair of Medical Social Sciences at Northwestern University, another implementation science powerhouse. She is still very much a partner in this work and we are grateful for her transformative leadership. Our leadership team now includes an Executive Director, four faculty Directors, a staff Managing Director, and a Coordinator. We have undertaken strategic planning and are excited for what the next several years will bring to the PISCE@LDI family. In particular, we plan to center equity and stakeholder engagement in all our work, and we plan to grow our partnerships across the University and beyond.

The demand for implementation science training and skills development continues unabated in 2023. PISCE@LDI now houses the new Implementation Science Certificate program, which includes several new courses (look for the IMP prefix). We will also offer the 7th annual Implementation Science Institute in partnership with the Master of Science in Health Policy Research (MSHP) program in June 2023.

We cannot help but conclude that the future of implementation science at Penn is bright! We are deeply grateful to our large PISCE@LDI family, 500+ members and growing. We look forward to pushing the boundaries of implementation (and de-implementation!) science and practice with you.

Sincerely,
Meghan Lane-Fall, MD, MSHP, FCCM
On behalf of the PISCE@LDI leadership team





PISCE@LDI *Leadership Team*



Meghan Lane-Fall, MD, MSHP, FCCM

Executive Director, PISCE@LDI

David E. Longnecker Associate Professor, Anesthesiology and Critical Care, Perelman School of Medicine

Associate Professor, Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine

Founding Co-director, Center for Perioperative Outcomes, Research, and Transformation



Amanda Bettencourt, PhD, APRN, CCRN-K, ACCNS-P

Director of Nursing Implementation Research, PISCE@LDI



Christopher Bonafide, MD, MSCE

Associate Director, PISCE@LDI

Associate Professor, Pediatrics, Perelman School of Medicine



Katharine Rendle, PhD, MSW, MPH

Director of Cancer Implementation Research, PISCE@LDI

Assistant Professor, Family Medicine and Community Health, Hospital at the University of Pennsylvania

Assistant Professor, Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine



Courtney Benjamin Wolk, PhD

Director of Mental Health Implementation Research, PISCE@LDI

Assistant Professor, Psychiatry, Perelman School of Medicine

Leadership Team continued



Meghan Lockman, MS, MBA
Managing Director, PISCE@LDI
(Joined January 2023)



Isabelle Kaminer, MS
Coordinator, PISCE@LDI

PISCE@LDI *Staff*



Kathryn O'Boyle
Implementation Science Certificate Coordinator



Sarah Hatch, MEd
Implementation Science Education Program
Specialist (February - August 2023)

Internal Advisory Board



ALISON BITTENHEIM, PhD, MBA

Scientific Director, Center for Health Incentives & Behavioral Economics
Patricia Bleznak Silverstein & the Howard A. Silverstein Term Endowed
Professorship in Global Women's Health
Associate Professor, Department of Family & Community Health, School
of Nursing
Associate Professor, Division of Health Policy, Perelman School of
Medicine; Director of Engagement, Leonard Davis Institute of Health
Economics



RAINA M. MERCHANT, MD, MS

Associate Vice President/Digital Health, University of
Pennsylvania Health System
Co-Director, National Clinician Scholars Program ,
University of Pennsylvania
Director, Center for Digital Health



JOHN R. KIMBERLY, PhD

Henry Bower Professor Emeritus, Department of Health
Care Management, Wharton School



PATRICIA SULLIVAN, PhD

Chief Quality Officer, University of Pennsylvania
Health System



DAVID MANDELL, ScD

Director, Penn Center for Mental Health; Kenneth E.
Appel Professor, Department of Psychiatry, Perelman
School of Medicine
Vice Chair for Faculty Development, Department of
Psychiatry, Perelman School of Medicine



RACHEL M. WERNER, MD, PhD

Executive Director, Leonard Davis Institute of Health
Economics
Robert D. Eilers Professor, Department of Health Care
Management, Wharton School
Professor, Department of Medicine, Perelman School of
Medicine

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WIP
Meeting
1/6/22

Dr. Daniel Almirall

Co-sponsored with the Penn
Center for Mental Health

“(Toward Multilevel)
Adaptive Implementation
Strategies.”

WIP
Meeting
4/8/22

Drs. Kristin Linn &
Alisa Stephens-
Shields

“SMILE for Implementation
Science: Statistical Methods
for Innovation, Learning, and
Experiments.”

Watch the video [here](#).

Invited
Speaker
5/11/22

Implementation
Science Institute

Keynote address by Wynne
Norton, PhD.

Invited
Speaker
11/10/22

Drs. Meghan Lane-
Fall & Amanda
Bettencourt

“Educational Opportunities
in Implementation Science
at Penn and Beyond.”

Watch the video [here](#).

Drs. Sarita Sonalkar,
Melissa Miller, and
Cynthia Mollen

Invited
Speaker
2/2/22

Charisse V. Ahmed, BSN, RN
& Stephanie Doupnik, MD,
MSHP

Fireside
Chat
5/2/22

Dr. Eva Woodward

Co-sponsored with the Penn
Center for Mental Health

“Six Mindsets to Reduce Healthcare
Disparities and Improve Health
Equity Using Implementation
Science.”

Watch the video
[here](#).

ISI 2022
6/7-6/10

Dr. Christian Helfrich

“Overcoming challenges in
de-implementing low-value
care: Routines, asymmetry of
outcomes, and psychological
reactance.”

View powerpoint
[here](#).

Penn
Speakers
12/15/22

TRAINING

Courses and student enrollment:

HPR 6200: Implementation
Science in Health & Healthcare

- **18 Students**

HPR 6210: Advanced Topics in
Implementation Science in Health

- **9 Students**

*Since 2012, over 500 people have
been trained through PISCE@LDI's
educational offerings.*

Yearly Implementation Science Institute:

In Summer 2022, we trained **109** external and
internal individuals from around the country at
the Implementation Science Institute (ISI)— a
27% increase from last year.



GRANTS



PUBLICATIONS

*In 2022, the PISCE@LDI
Newsletter featured **53**
publications by our members.*

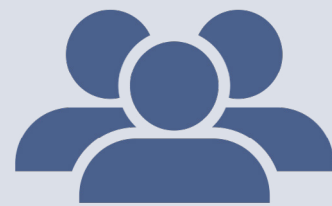
*Click [here](#) to see our 2022
Monthly Newsletter Archive*

MEMBERSHIP



526

total members



362

members from
Penn/CHOP

23%

increase in membership
since 2021

Year in Numbers

EVENTS & SPEAKERS

We convened **3** Works in Progress meetings and **5** speaker events with an average of **53** attendees.

At the 15th Annual Conference on the Science of Dissemination and Implementation in Health in December, PISCE@LDI Members gave **2** presentations and presented **12** posters.

Comments from ISI 2022 Participants:

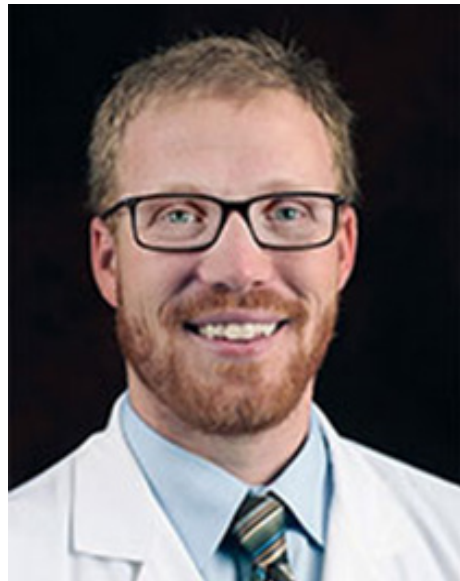
“This training was phenomenal and I so sincerely appreciated the enthusiasm and expressed commitment [the faculty] brought to it. I also thought there was very effective community-building (even through zoom) and appreciated the integration of conversations around equity throughout the training and each lecture.”

“This course was incredibly helpful and I’m so grateful to have participated this summer. I attained many of my goals to learn more about the terminology and how to apply it to my own research.”

“I enjoyed the institute and am glad I attended. While I was familiar with many of the concepts already, it was really helpful to see how the concepts have been applied in real-world studies. In terms of small-group activities, I thought the...activity using CFIR was the most helpful.”

“This institute was an incredible opportunity and I’m grateful to all parties involved...who made the virtual conference run so smoothly. I really enjoyed being able to have the small group discussions to clarify the previous day’s material at the beginning of each new day. I thought having the same participants but different facilitators was useful; I was able to get to know a small group of individuals but liked having a different perspective from the new facilitator each day.”

Featured Projects



Effect of post-acute care pay for performance in skilled nursing facilities on outcomes and disparities

Dr. Robert Burke (UPenn) was awarded an NIA R01—with coinvestigators Drs. Rachel Werner and Atul Gupta, also at UPenn— to evaluate the first pay-for-performance program targeted directly at skilled nursing facilities. For more information, visit [this link](#).

Improving the Organizational Social Context to Address Structural Racism and Discrimination: A Randomized Controlled Trial to Reduce Racial Disparities in Viral Suppression and Retention in HIV Care



Drs. Florence Momplaisir and John Barton Jemmott III have been awarded funds by the National Institute of Nursing Research (NINR) to conduct an R01 testing the implementation of ARC (Accessibility, Responsiveness, Continuity) in a randomized controlled trial (RCT) to improve organizational behavior and reduce racial disparities in HIV outcomes for people living with HIV (PLWH). Read more [here](#).



Thibang Diphatlha: Testing adaptive strategies to close the gap from cervical cancer diagnosis to treatment in Botswana

Drs. Surbhi Grover (UPenn) and Katharine Rendle (UPenn), in partnership with Dr. Doreen Ramogola-Masire and colleagues at the University of Botswana, have been awarded funding from the National Cancer Institute to study the effectiveness of adaptive strategies on timely treatment adoption for women with cervical cancer in Botswana. More information about this exciting project can be found at [this link](#).



Poverty, Mental Bandwidth, and an Unconditional Cash Transfer Intervention to Enable Health Behaviors for Pregnant People with HIV

Dr. Aaron Richterman received a K award from the National Institute of Mental Health (NIMH) to study the relationship between mental bandwidth, HIV, and the perinatal period in an impoverished rural population in Haiti. Read more [here](#).



Leveraging the electronic health record and behavioral nudges to promote primary and specialist palliative care for inpatients with serious illness: A pragmatic trial

Dr. Katherine Courtright was awarded funds from the National Institute on Aging (NIA) to conduct an R01 evaluating a strategy to provide either primary or specialist palliative care for seriously ill hospitalized patients. Learn more [here](#).



Using Behavioral Economics and Implementation Science to Advance the Use of Genomic Medicine Utilizing an EHR Infrastructure across a Diverse Health System

Drs. Robert Scholl, Katherine Nathanson, and Marylyn Ritchie were awarded funds from the National Human Genome Research Institute (NHGRI) to conduct a highly innovative R01 that will evaluate the use of clinician and/or patient nudges to advance the use of genomic medicine. Click [here](#) to read more.



Leveraging behavioral economics to equitably implement cascade screening in individuals with familial hypercholesterolemia in partnership with the FH Foundation

Drs. Kevin Volpp (UPenn), Dan Rader (UPenn) and Rinad Beidas (Northwestern) were awarded an NHLBI R61 in partnership with the Family Heart Foundation to use insights from behavioral economics to equitably implement cascade screening in individuals with familial hypercholesterolemia. [Click here](#) to learn more about this project.

Improving transitions of care for hospitalized patients with opioid use disorder

Dr. Margaret Lowenstein received a K award from the National Institute on Drug Abuse (NIDA) to develop and test strategies that improve transitions of care following hospitalizations for patients with opioid use disorder (OUD). Read more [here](#).



Media Features

Penn Nursing Professor Leads National Organization

[Amanda Bettencourt, PhD, APRN, CCRN-K, ACCNS-P](#), Director of Nursing Implementation Research at PISCE@LDI, began her 1-year term as the new president of the American Association of Critical-Care Nurses (AACN) board of directors on July 1, 2022. [Read more about her appointment here.](#)

A BETTER Way: New Penn Medicine Center Will Advance Diversity in Cardiovascular Disease Clinical Trials

With support from the American Heart Association, Penn Medicine has formed the BETTER Center (Behavioral Economics to Transform Trial Enrollment Representativeness), designed to foster greater diversity, equity, and inclusion among people who participate in cardiovascular clinical trials. PISCE@LDI's Executive Director, Dr. [Meghan Lane-Fall](#), is one of several dedicated researchers leading BETTER Center Projects. [Read more about the BETTER Center here.](#)

Penn Medicine Awarded \$5.7 Million NCI Grant for New Cancer Telehealth Research Center of Excellence

Funding to support clinical research of new telehealth methods for better cancer care, under reignited White House Cancer Moonshot

Drs. [Justin Bekelman](#), [Katharine Rendle](#), and [Anil Vachani](#) were awarded a five-year, \$5.7 million grant from the National Cancer Institute to lead one of four newly-established NCI Telehealth Research Centers of Excellence. [The Penn Telehealth Research Center in Cancer Care \(Penn TRACE\)](#), is based at the Penn Center for Cancer Care Innovation (PC3I) at the Abrahamson Cancer Center (ACC).



"We aim not only to ensure equal access to telehealth but also to use it in ways that reduce persistent barriers to care in order to transform how we deliver cancer care today"

- Katharine Rendle, PhD, Director of Cancer Implementation Research at PISCE@LDI

[Click here to read more in Penn Medicine News.](#)

CONNECT WITH US!



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Join our community!

Consultation Services:

Sign up for a one-on-one consultation to address your implementation science needs.

Use this [link](#) to submit a request to meet.

LOOKING AHEAD TO 2023...



The Implementation Science Certificate Program launched in 2022 and has enrolled its first students. We're looking forward to the rest of the year and the launch of the new Ethics and Equity in Implementation Science course (IMP 6100, Fall 2023).

This year's Penn Implementation Science Institute will be from June 6-9, 2023. Click [here](#) to register. The keynote speakers will be Drs. Geoffrey Curran, Rinad Beidas, and Lindsey Martin.



We are excited to announce that we welcomed a full-time Managing Director to our PISCE@LDI Team! Meghan Lockman, MS, MBA joined our team in January.