

YEAR IN REVIEW: 2024



Penn Implementation Science Center

Mission

To advance the science and practice of implementation by building capacity, driving methodological innovation, fostering collaboration, and encouraging community. This statement encompasses the following strategic goals and core competencies:

- **Research** We support the development of research to guide the implementation of evidence-based interventions across a range of healthcare settings around the globe.
- Education We host educational offerings for both the next generation of researchers as well as established investigators through our Implementation Science Certificate Program, our Implementation Science Institute, workshops, and a variety of courses on Implementation Science at Penn.
- **Connection** We bring together the Implementation Science community at Penn and beyond through invited speaker lectures, fireside chats, works-in-progress meetings, in-person networking opportunities, newsletters, mock study sections, conference preparation workshops, writing workshops, and more.

Vision

We foster optimal population health through collaborative, equitable, and rigorous dissemination and implementation science.





Letter from the Executive Director, Meghan Lane-Fall

Dear PISCE Community,

2024 was a wonderful year for the implementation science community at Penn, with marked growth in the PISCE Community itself, the PISCE Senior Fellows program, and our partnerships with research programs and centers at the University of Pennsylvania and the Children's Hospital of Philadelphia. As detailed in this Year in Review, PISCE-affiliated investigators made substantial contributions to the literature and managed more than \$37M in federal grants featuring implementation science methodologies. One of these grants - Synthesize, Coordinate, Amplify, Learn, & Evaluate the AHRQ/PCOR LHS network (SCALE-LHS) — is a coordinating center for the AHRQ/PCORI network of Learning Health Systems training programs. SCALE-LHS is a partnership between PISCE, the Penn Center for Health Equity Advancement, and the Penn Center for Healthcare Improvement and Patient Safety.

2025 will be a year of change for PISCE. Effective March 31, I will be stepping down as PISCE Executive Director in preparation for leaving Penn to assume a leadership role at Columbia University. Leading PISCE has been one of the highlights of my career, and I am grateful to have played a role in supporting implementation research and scientists at Penn for more than 10 of my 18 years at Penn. I am delighted that current PISCE Director of Mental Health Implementation Research Courtney Benjamin Wolk, PhD, will become the next PISCE Executive Director. Danielle Cullen, MD, MPH, will become the new Director of the Implementation Science Certificate Program. The Implementation Science Institute will be co-directed by Courtney Benjamin Wolk and PISCE Director of Acute Care Implementation Amanda Bettencourt, PhD, APRN, CCRN-K, ACCNS-P. The future of implementation science at Penn remains bright, and I encourage all members of the PISCE family to continue engaging with us as we aim to advance the science and practice of implementation.

Warm regards,

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Meghan 2024 Year In Review

Leadership Team



Meghan Lane-Fall, MD, MSHP, FCCM Executive Director, PISCE David E. Longnecker Professor, Anesthesiology and Critical Care, Perelman School of Medicine Professor, Epidemiology and Medical Ethics and Health Policy, Perelman School of Medicine

Amanda Bettencourt, PhD, APRN, CCRN-K, ACCNS-P Director of Acute Care Implementation Science, PISCE Assistant Professor, Family and Community Health, Penn Nursing





Christopher Bonafide, MD, MSCE Director of Pediatric Implementation Research, PISCE Associate Professor, Pediatrics, Perelman School of Medicine

Katharine Rendle, PhD, MSW, MPH Director of Cancer Implementation Research, PISCE Associate Professor, Family Medicine and Community Health, Hospital at the University of Pennsylvania Associate Professor, Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine





Courtney Benjamin Wolk, PhD

Director of Mental Health Implementation Research, PISCE Associate Professor, Psychiatry, Perelman School of Medicine

Leadership Team Continued



Meghan Lockman, MS, MBA Managing Director, PISCE

> Day Prescott-Moore, MS Assistant Manager, PISCE



PISCE Staff

Kathryn O'Boyle Implementation Science Certificate Coordinator





Shelby Billups

Coordinator, Penn Implementation Science Institute Project Manager, AMETHIST@Penn

2024 Internal Advisory Board



John R. Kimberly, PhD Henry Bower Professor Emeritus, Health Care Management, Wharton School



Mucio Kit Delgado, MD, MS Associate Professor, Emergency Medicine and Epidemiology, Perelman School of Medicine Associate Professor, Addiction Medicine, Perelman School of Medicine



Marylyn D Ritchie, PhD Edward Rose, MD and Elizabeth Kirk Rose, MD Professor of Genetics, Perelman School of Medicine Vice Dean, Artificial Intelligence and Computing, Perelman School of Medicine

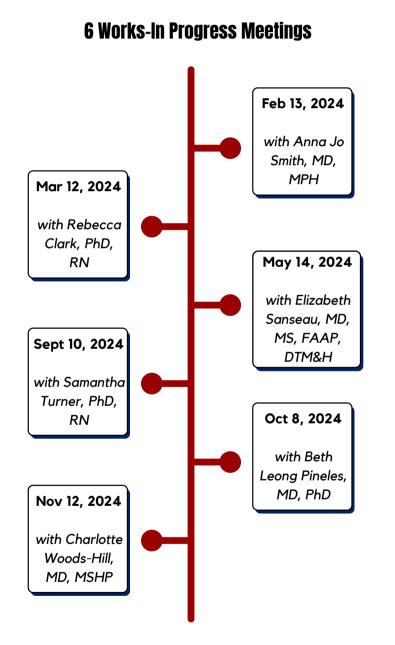


Patricia Sullivan, PhD Former Chief Quality Officer, Penn Medicine



David Mandell, ScD Kenneth E. Appel Professor, Department of Psychiatry, Perelman School of Medicine Director, Penn Center for Mental Health

2024 Events



1 Virtual Workshop





Tips & Tricks for IS Grant Applications with Dr. Florence Momplaisir, Dr. Katharine Rendle, Dr. Meghan Lane-Fall, Dr. Amanda Bettencourt, and Dr. Christopher Bonafide on February 1, 2024 Watch the video <u>here</u>

1 Fireside Chat Co-Sponsored with CFAR IS Core





Caring Through Change: Navigating Shifting Syringe Exchange Policies and Substance Use Care in Philadelphia with Dr. Jessica Meisner, Dr. Margaret Lowenstein, and Dr. Jeanmarie Perrone on December 17, 2024 Watch the video here

2024 Events Continued

3 Virtual Invited Speakers



Integrating Implementation Science with Quality Improvement: Approach and Examples in Perinatal Health with Dr. Jennifer Callaghan-Koru on February 27, 2024 Watch the video <u>here</u>



Approaches to Publishing Implementation Science with Dr. David Mandell, Dr. Katelin Hoskins, and Dr. Charlotte Woods-Hill on March 21, 2024 Watch the video <u>here</u>



Leveraging Implementation Science to Improve Supports for Students with Abigail Gray on May 21, 2024 Watch the video <u>here</u>

2 Academy Health Dissemination & Implementation Conference Events

Pre-Conference Poster Presentation Practice on November 20, 2024

Conference Happy Hour on December 9, 2024

2 In-Person Events

Back To School Luncheon





Bridging Healthcare Implementation and Organizational Theory: An Expert Panel on Change Failures and Opportunities with Dr. John R Kimberly, Dr. Gregory Shea, and Dr. Ingrid Nembhard on September 30, 2024

Researcher Symposium



Transforming Your Research Agenda with Implementation Science Symposium

Co-sponsored with the School of Nursing with Keynote Speaker Dr. Anne Sales on October 16, 2024

Trainings & Programs

Over 750 people have been trained through PISCE's educational offerings since 2012. In the Summer of 2024, PISCE trained **96 internal and external individuals** from around the country at the Implementation Science Institute (ISI). Our Certificate in Implementation Science program conducted **4 courses** in 2024:

- IMP 6000 8 students enrolled
- IMP 6300 6 students enrolled
- IMP 6400 4 student enrolled
- IMP 6200 8 students enrolled

Publications



Publications featured in the PISCE Newsletter in 2024. Click <u>here</u> to view our 2024 Newsletter Archive.

FY24 Grants at Penn103\$37.2 MDirect
costsActive IS Grants\$45.7 MTotal
costs

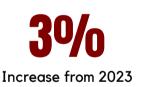
PISCE Membership







Penn/CHOP members



D&I Conference

For the 17th Annual Conference on the Science of Dissemination and Implementation in Health in December 2024, PISCE members were responsible for:

Implementation Science for Maternal Health (IS4MH) Session **3** Presentations during the conference

16 Poster presentations during the conference

1st Senior Fellows Cohort



LauraEllen Ashcraft, PhD, MSW



Emily Becker-Haimes, PhD



Amanda Bettencourt, PhD



Christopher Bonafide, MD, MSCE



Danielle Cullen, MD, MPH, MSHP

PhD



Molly Davis, PhD



Karen Glanz, PhD, MPH

Freya Nazir, PhD



Rebecca Hamm, MD, MSCE



Katharine Rendle,

PhD, MPH



Nancy Hodgson, PhD, RN, MSN







Robert Schnoll, PhD Sarita Sonalkar, MD, Courtney Wolk, PhD MPH



Gwendolyn Lawson, Elizabeth Lowenthal, MD, MSCE



Charlotte Woods-Hill, MD, MSHP

Implementation Science Certificate Program

During the summer and fall, the Penn **Implementation Science Certificate Program** welcomed its 2nd cohort of 8 students.



Students (left to right): Eleanor Turi, Irogue Igbinosa, Amanda O'Halloran, Claire Regan, Ellen Munsterman, Jonathan Edelson, Marguerite Balasta, and Tanaya Oliphant

Program Highlights:

Ist Program Graduate Coming Soon: The certificate program has one student set to graduate at the end of the spring semester 2025 – Bernard Appiah.

To learn more about the certificate program, click here.





Featured Projects



Research Training in Integration of Epidemiology and Implementation Science for Neglected Zoonotic Disease Control in Peru

Dr. Ricardo Castillo, Dr. Javier Bustos, and Dr. Valerie Paz-Soldan received a D43 award to develop and establish an innovative transdisciplinary training program in implementation science and epidemiology for Neglected Zoonotic Disease (NZD) control in Peru.



Prevention Research Centers' Cancer Prevention and Control Research Network: UPenn Prevention Research Center

Dr. Karen Glanz, Dr. Meghan Lane-Fall, and Dr. Oluwadamilola "Lola" Fayanju were awarded a U48 to create The University of Pennsylvania Prevention Research Center's (UPenn PRC) Collaborating Center of the Prevention Research Centers' Cancer Prevention and Control Research Network (CPCRN).



Improving the delivery and equity of inpatient palliative care: a hybrid type I pragmatic cluster trial

Dr. Katherine Courtright and Dr. Michael Harhay were awarded a R01 to test the effectiveness of using an automated trigger in the electronic health record to identify hospitalized patients with unmet palliative care needs with and without an additional gentle nudge for clinicians to consider consulting palliative care.



Patient-Oriented Research and Training to Accelerate Learning (Penn PORTAL)

Dr. Scott Halpern, Dr. Meghan Lane-Fall Brooks and Dr. Mucio Delgado received a P30 award to establish a Patient-Oriented Research and Training to Accelerate Learning (Penn PORTAL) to build and diversify capacity in deploying patient-centered outcomes research (PCOR) within learning health systems (LHSs).

Media Feature

Penn Becomes National Coordinating Hub for Federal LHS E-STaR Network

Three Penn Medicine Researchers Get \$3.8 Million Grant to Establish New Center

Three LDI Senior Fellows and Penn Medicine researchers—<u>Meghan Lane-Fall</u>, <u>Jaya Aysola</u>, and <u>Jennifer Myers</u>—have received a \$3.8 million grant to establish a national coordinating center for the new network of Learning Health System Embedded Scientist Training and Research (LHS E-STaR) Centers funded by the Agency for Healthcare Research and Quality (AHRQ) and the Patient-Centered Outcomes Research Institute (PCORI).

<u>Click here to read more in Leonard Davis Institute of Health Economics News</u> Want to know more information about SCALE-LHS? Visit their website: <u>https://www.med.upenn.edu/pisce/scale-lhs.html</u>

We thank you for your continued support of PISCE.

Contact Us

Penn Implementation Science Center

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Need a consult? Check out our one-onone <u>consultation services</u> Visit our <u>LinkedIn</u> Check out our <u>YouTube</u>

