PISCE@LDI
Penn Implementation Science Center at LDI

Newsletter
May 2022

Dear PISCE@LDI community,
It was wonderful to virtually see so many of you at our most recent senior scholar talk with Dr. Eva Woodward on the intersection of health equity and implementation science!
This Spring, we also hosted our first ever Fireside Chat with Assistant Professors of Biostatistics at Penn, Drs. Kristin Linn and Alisa Stephens-Shields, on statistical methods in implementation science. Our hope is that Fireside chats will be an open space for colleagues to discuss common challenges and pitfalls, share tips and successes, and learn from experts in implementation science. We are looking forward to incorporating more of these in our fall/winter programming! Send us a note if you have an idea about a topic you'd like to see featured.
PISCE@LDI is looking forward to this summer's Penn Implementation Science Institute, which will run from **June 21-June 24, 2022.** If you missed the registration window, you may still click here to register for the waitlist, and here to be added to the 2023 first-to-know list. We'll take a break this summer and look forward to sharing our programming for 2022-23.
Wishing you a lovely summer!
Best well,
The PISCE@LDI Leadership Team

Announcements

Rinad Beidas, PhD and Meghan Lane-Fall, MD, MSHP, FCCM gave the Keynote Session on Implementation Science at the National Institute of Environmental Health Sciences' virtual conference: Advancing Environmental Health Equity Through Implementation Science. This event took place from Feb 28-March 1, 2022. Materials and recordings from the entire workshop can be found here.
The keynote address can be found by clicking here and navigating to minute 53:00 of the first video. The slideshow presentation from the keynote can be found here.

PISCE@LDI has a new email address!
Please add PISCE@pennmedicine.upenn.edu to your contact list as we transition more of our communications to this email.

PISCE@LDI is on YouTube! We are thrilled to announce we will be posting videos of any talks available to all members to our YouTube channel (this excludes WIP meetings). The links to each video will be sent in the newsletter. If you missed our most recent talks, you can now find them on our PISCE@LDI YouTube channel at the links below!

- Dr. Woodward's talk
- PISCE@LDI Fireside Chat

Sharing your work on Twitter? Tag @PISCE_LDI so we can amplify your work!

Spotlight on PISCE@LDI Member:

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

PISCE@LDI: Please tell us a little bit about yourself.

Dr. Bettencourt: I am an Assistant Professor at Penn Nursing and my research focus is implementation science. I am interested in testing implementation strategies that involve interprofessional teams in the acute care setting, with a goal of leveraging the contextual knowledge of nurses to achieve sustainable and cost-effective implementation of evidence-based practices. My clinical focus is pediatrics with an emphasis on trauma and burn patients. I recently began leading a large multi-year Type II Hybrid Implementation and Effectiveness study on the implementation of telemedicine for acute burn care funded by the department of defense.

PISCE@LDI: How did you become interested in implementation science?

Dr. Bettencourt: I spent many years as a nurse leader implementing evidence-based practice changes across different pediatric settings, and have always been intrigued by what made some projects stick and have impact and others fail. I decided to study nurse staffing and work environments as a Penn Nursing PhD student because I knew that was part of the answer, as those two factors absolutely affect the context of care and our ability to improve and change practice for better patient outcomes. Then, during my PhD program, I learned about the field of implementation science through the Penn introductory course (MSHP HPR 611), and immediately knew I had found my scholarly passion!

As I learned more about implementation science, I was struck by how completely unaware I had been about this body of research in my clinical nursing leadership roles, and how valuable that knowledge would have been to guide my previous implementation work. As an nurse implementer turned implementation scientist, my previous experience in changing practice informs my program of research and pushes me to explore how the previously largely untapped potential of acute care nurses can be a force multiplier in shortening the evidence-to-practice gap in hospital settings.

PISCE@LDI: What excites you most about pursuing a research agenda in implementation science?

Dr. Bettencourt: I am most excited about how wide open and new the field of acute care implementation science is, and how little we understand about how acute care teams should work together to change practice. I want to develop knowledge around how we should tailor strategies to fit the acute care setting, the innovation, and the unique perspectives of the clinicians involved because I see the potential for that research to accelerate improvements in patient outcomes. It also means efforts are more likely to be sustainable and not create an undue workload for clinicians. In my view that's the ultimate win-win for clinicians and the patients we serve.

Spotlight on PISCE@LDI Members Project:

ECLIPSE (Excellence in Pediatric Implementation Science) **subgroup of the PALISI** (Pediatric Acute Lung Injury and Sepsis Investigators) **Network**

One year ago, Charlotte Woods-Hill, MD MSHP and Heather Wolfe, MD MSHP established ECLIPSE as a subgroup of the PALISI Network. The objectives of ECLIPSE are to foster collaboration focused on implementation science work in PICUs across the country, provide education about IS in the PICU setting, and create career development opportunities for aspiring/early IS investigators. In their first year, they have recruited over 30 members from more than 10 institutions nationwide and have introduced a series of open, online education sessions in the form of journal clubs, works-in-progress meetings, and invited speakers that will take place three times a year. Additionally, a core group of ECLIPSE scientists are finalizing a manuscript about IS within the PICU that aims to introduce pediatric intensivists to the fundamental concepts of IS, and to highlight areas within pediatric critical care that would benefit from rigorous IS work. The ECLIPSE group is currently planning partnerships with the BloodNET subgroup in PALISI to study the implementation of red blood cell transfusion practices in the PICU, as well as other projects in early stages. To get involved or learn more, please feel free to reach out to Charlotte Woods-Hill (WOODSHILLC@chop.edu) or Heather Wolfe (wolfeh@chop.edu). Please also follow us on Twitter: **@ECLIPSE_PALISI**!

Events

We hope you enjoyed the events we offered this semester. We will be taking a break for the summer. We look forward to reconvening as a community in the fall with new opportunities for learning and collaboration. Please see below for our expanded event programming.

PISCE@LDI
BREAKDOWN OF EVENT PROGRAMMING

PISCE@LDI is currently working on expanding our event programming. Please see below for details on our current offerings.

INVITED/SPONSORED TALKS

An invited/sponsored talk is an event hosted by PISCE@LDI either independently or with another group (e.g., co-sponsored by iSPHERE SWG) during which distinguished leader(s) in implementation science are invited to give a talk on a dedicated subject matter. These presentations occur several times throughout the year.

Who can attend? Open to all.

FIRESIDE CHATS

PISCE@LDI Fireside Chats foster collaborative discussions on cutting-edge areas in implementation science. These informal events follow a question-and-answer format and occur a few times a year.

Who can attend? Open to all.

WORKS IN PROGRESS MEETINGS (WIPs)

Works in Progress meetings provide an opportunity for scientists who are interested in adding an implementation science lens or aim(s) to their independent research projects to receive feedback from the PISCE@LDI community.

How do I apply to present at a WIP meeting?
Email Izzy Kaminer at isabelle.kaminer@pennmedicine.upenn.

Who can present at a WIP? Penn/CHOP colleagues only.

Who can attend? Penn/CHOP colleagues

Email Izzy Kaminer at isabelle.kaminer@pennmedicine.upenn.edu with any questions

---

Featured Publications

Beidas RS, Hannon PA, James AS, Emmons KM. (2022). Advancing gender equity in the academy. *Sci Adv.*

Candon M, Williams N, Zentgraf K, Buttenheim A, Bewtra M, Beidas RS, Stewart RE. (2022). Variation in Stakeholder Preferences for Implementing Evidence-Based Practices in Behavioral Health Care. *Psychiatr Serv.*

Carpenter JG, Scott WJ, Kononowech J, Foglia MB, Haverhals LM, Hogikyan R, Kolanowski A, Landis-Lewis Z, Levy C, Miller SC, Periyakoil VJ, Phibbs CS, Potter L, Sales A, Ersek M. (2022). Evaluating implementation strategies to support documentation of veterans' care preferences. *Health Serv Res.*

Chaiyachati KH, Beidas RS, Lane-Fall MB, Rendle KA, Shelton RC, Kaufman EJ. (2022). Weaving Equity into the Fabric of Medical Research. *J Gen Intern Med.*

Davis M, Hoskins K, Phan M, Hoffacker C, Reilly M, Fugo PB, Young JF, Beidas RS. (2022) Screening Adolescents for Sensitive Health Topics in Primary Care: A Scoping Review. *J Adolesc Health.*

Davis M, Jones JD, So A, Benton TD, Boyd RC, Melhem N, Ryan ND, Brent DA, Young JF. Adolescent depression screening in primary care: Who is screened and who is at risk? *J Affect Disord.*

Jacob RR, Korn AR, Huang GC, Easterling D, Gundersen DA, Ramanadhan S, Vu T, Angier H, Brownson RC, Haire-Joshu D, Oh AY, Schnoll R. (2022). Collaboration networks of the implementation science centers for cancer control: a social network analysis. *Implement Sci Commun.*

Kennedy EE, Bowles KH. (2022). Human Factors Considerations in Transitions in Care Clinical Decision Support System Implementation Studies. *AMIA Annu Symp Proc.*

Lane-Fall MB. (2022). What Anesthesiology Has to Learn from Implementation Science and Quality Improvement. *Anesthesiology.*

McLeod BD, Jensen-Doss A, Lyon AR, Douglas S, Beidas RS. (2022). To Utility and Beyond! Specifying and Advancing the Utility of Measurement-Based Care for Youth. *J Clin Child Adolesc Psychol.*

Psihogios AM, Lane-Fall MB, Graham AK. Adolescents Are Still Waiting on a Digital Health Revolution: Accelerating Research-to-Practice Translation Through Design for Implementation. (2022). *JAMA Pediatr.*

Drs. Rinad Beidas, Kevin Volpp, and **Dan Rader** 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. Cascade screening is an evidence-based practice of contacting and screening first-degree biological relatives of FH probands, and improves timely diagnosis and reduces morbidity cost-effectively. This study will contain two phases; in the R61 phase of the study, investigators will co-design health system- and Family Heart Foundation-mediated implementation strategies using behavioral economics in partnership with the Family Heart Foundation and key stakeholders from diverse backgrounds, and then pilot those strategies to ascertain feasibility, acceptability, and appropriateness of the intervention. In the R33 phase, this study aims to 1) compare the effect of health system-mediated, Family Heart Foundation-mediated, and usual care approaches on reach, number of family members screened, number of family members diagnosed with FH, and proband LDL-C levels; and 2) identify implementation strategy mechanisms focusing on health equity. The team looks forward to conducting this work at the intersection of behavioral economics and implementation science in partnership with the FHF. Other Penn investigators include **Drs. Sri Adusumalli, Jinbo Chen,** and **Tamar Klaiman**.

Funding Opportunities

The Implementation Science in Philadelphia for Ending the HIV Epidemic REgionally (ISPHERE) Scientific Working Group and Center for AIDS Research Developmental Core are thrilled to offer two new opportunities for scholars interested in doing work at the intersection of HIV and implementation science. The goal of these opportunities is to increase accessibility for HIV researchers to do work in the implementation science space and vice versa. Specifically, we are offering scholarships for:

- **Open access publication fees** for applicants whose manuscripts represent first-time HIV and implementation science work.
    - For more information on what constitutes an implementation science manuscript, see Figure 1 of this manuscript, which distinguishes implementation science from efficacy research and effectiveness research.

- **Conference registration fees** for applicants to attend their first HIV or implementation science conferences. An abstract acceptance is NOT required.
    - Examples of implementation science conferences:
        - Annual Conference on the Science of Dissemination and Implementation in Health Conference (D&I)
        - Society for Implementation Research Collaboration (SIRC)
    - Examples of HIV conferences:
        - Conference on Retroviruses and Opportunistic Infections (CROI)
        - International AIDS Conference
        - National HIV Prevention Conference
        - STD Prevention Conference
        - United States Conference on AIDS

Creating opportunities for investigators to explore areas outside of their established expertise is key to our mission of building capacity and developing HIV implementation researchers. For that reason, **priority will be given to early-career investigators and those with limited or no funding for their work. Applications will be fielded on a rolling basis in 2022.**

Please click here to fill out a brief survey detailing your request, and we will follow up with you by email. If you have any questions, please contact Deaujzhane.Coley@Pennmedicine.upenn.edu.

- -

The Dissemination and Implementation Research in Health (DIRH) PARs have been reissued by NIH. Please click below for more information on each, and be sure to check that your institute of interest is participating.

- R01
- R21
- R03

Training Opportunities and Conferences

Colorado Pragmatic Research in Health Conference (COPRH Con)
- **Dates: May 23-25, 2022**
- **Location: Virtual**

The third [Colorado Pragmatic Research in Health Conference (COPRH Con)](#) will be held virtually **May 23-25, 2022**. Ideal for clinical and translational researchers, including statisticians, dissemination and implementation scientists, health services and public health researchers, program evaluators. Junior faculty with career development awards, fellows, and anyone wanting to learn and apply new methods directly from world-renowned experts are encouraged to attend.

COPRH Con 2022 offers two tracks: *Pragmatic Measures & Methods* track and *Dissemination & Implementation Strategies* track. The 2022 theme rounds out a three-year series following the evidence life cycle, focused on dissemination, sustainability, and de-implementation of pragmatic research. Learn about topics ranging from dissemination strategies, advanced analytics, complexity and systems science, and de-implementation of ineffective interventions.

Registration: Click [here](#) to register.

Society for Implementation Research Collaboration Conference (SIRC) 2022 : From Implementation Foundations to New Frontiers
- **Dates: September 8-10, 2022**
- **Location: In-person; San Diego, CA**

The SIRC Conference will be taking place in-person this year in San Diego, California. This year's theme is designed to ground us in the evidence base and realities of multisector systems to propel implementation research and practice to achieve more equitable, generalizable, and global impact. We encourage you to submit your abstract(s)!

The window for abstract submissions has closed for 2022.

Registration: Dates and details on how to register have not yet been provided.

Job Opportunities

Faculty Positions in Health Informatics and Implementation Science— University of Massachusetts Medical School, Department of Population and Quantitative Health Sciences

The Department of Population and Quantitative Health Sciences (PQHS) at the University of Massachusetts (UMass) Chan Medical School (UMass Chan) in Worcester, MA is recruiting **two faculty members in Health Informatics and/or Implementation Science**. We welcome applications from established researchers as well as junior faculty (Assistant, Associate, or Full Professor rank).

We are a collaborative team conducting cutting-edge research in digital health, clinical informatics, machine learning, behavior change, and implementation science. These positions include an opportunity for a joint appointment at the Veterans Administration Center of Innovation in Health Services Research at the VA Bedford Healthcare System.

As an equal opportunity and affirmative action employer, UMass Chan recognizes the added value of a diverse community and encourages applications from individuals with varied experiences, perspectives, and backgrounds. We are especially eager to consider applicants who will support and elevate the UMass Chan commitment to diversity, equity and inclusion, and foster an environment of inclusive collaborative excellence where all faculty can thrive.

More information and applications are available:
- Health Informatics - https://academicjobsonline.org/ajo/jobs/21478
- Implementation Science - https://academicjobsonline.org/ajo/jobs/21479
- Inquiries, but not application materials, may be directed to PQHS.faculty.search@umassmed.edu

| Check out our website | Check us out on Twitter |