VCLIC

VANDERBILT CLINICAL INFORMATICS CENTER

VCLIC News and Happenings, Volume 35

Welcome to VCLIC's April newsletter! We hope spring is finding you well and with many opportunities to get outside. We have hosted several seminars and workshops over the last month and are looking forward to wrapping up our year with a few more fantastic events!

On May 3rd, we will host **Jesse Ehrenfeld, MD, MPH**, Senior Associate Dean and Director at the Medical College of Wisconsin and President-Elect of the American Medical Association, from 12:00-1:00 pm CT in Light Hall 208. Dr. Ehrenfeld will present on *Reducing Provider Burnout and Supporting Provider Well-Being.* We hope to see you all there, and please see below for additional details!

We are also wrapping up our synchronous learning series for VCLIPS (**VCLIC Practical Shorts)** on May 2nd, 2023**: Evaluation and Dissemination of HealthIT Interventions** with **Adam Wright, PhD** from 1:00 – 2:30 pm CT. Details and sign-up form are below, and all information about upcoming events is on our website.

Our featured member this month is **Laurie Novak, PhD, MHSA, FAMIA,** an Associate Professor of Biomedical Informatics in the School of Medicine and Director of the Center of Excellence in Applied AI in the Department of Biomedical Informatics. We are so excited to highlight Laurie this month and recognize her amazing contributions to VCLIC!

Finally, and per usual, we have several Center members who have **received awards**, been mentioned in the **news**, presented **lectures** and at conferences, **published papers**, have had **abstracts** accepted to conferences, and had **honors or fellowships** bestowed on them.

If you have any questions or would like to engage with our team, please email Elise (elise.russo@vumc.org).

VCLIC Seminar Events

Thank you to this month's seminar presenters, **Sarah Rossetti, RN, PhD,** from Columbia University, who spoke on "*National strategies, priorities, and challenges to reducing documentation burden and evaluating impact"* on April 5, 2023 and to **Michael Barnett, MD, MS,** from Harvard University, who presented on "*Identifying the Mechanisms of Disparities in Cascades of Cardiovascular Care with EHR Metadata"* on April 12, 2023.

And thank you so much also to **Russ Leftwich, MD**, and **Alex Cheng, PhD** who presented our FHIR Workshop on March 31st! We had an amazing turnout and learned a ton!

Upcoming Events

VCLIC, DBMI, and GIM Special Seminar

Reducing Provider Burnout and Supporting Provider Well-Being

📅 May 3, 2023

🕐 12:00pm – 1:00pm CT

In person in Light Hall 208 & Via Zoom

Additional Details: https://www.vumc.org/vclic/events-announcements

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Speaker:
Jesse Ehrenfeld, MD, MPH
Senior Associate Dean and Director, Professor of Anesthesiology, Medical College of Wisconsin; President-Elect, American Medical Association

Please join us next month as we host **Jesse Ehrenfeld, MD, MPH**, Senior Associate Dean and Director at the Medical College of Wisconsin and President-Elect of the American Medical Association (AMA), on

May 3rd, 2023 from 12:00-1:00 pm CT. We are excited to have him at VUMC **in person**, and you can join us for his talk in **Light Hall 208**, or via Zoom.

Dr. Ehrenfeld will present on *Reducing Provider Burnout and Supporting Provider Well-Being.* Alleviating physician burnout has been a cornerstone of the AMA's strategic work for more than a decade. During his talk, Dr. Ehrenfeld will discuss how the AMA is working at the system-level to remove the common barriers that interfere with patient care and often lead to burnout and dissatisfaction. He will touch on work around the use of and development of digital health technologies, strategies to streamline and reduce administrative burdens, as well as work being done in partnership with the Dr. Lorna Breen Heroes Foundation.

<p style="text-align:center">VCLIPS Upcoming Sessions</p>

Please join us for the fourth monthly VCLIPS Workshop: Evaluation and Dissemination of HealthIT Interventions with **Adam Wright, PhD.** This session will be held on Tuesday, May 2 from 1:00-2:30 pm, in person at 2525 West End in room 1561. Adam will do a live presentation of the same info as in the videos for these topics (found here), and go over the exercises (also found on the website), and also leave plenty of time for questions. Everyone interested is welcome--there are no pre-requisites or requirements for participation!

A brief overview of the topics that will be covered:

- o Learn why evaluation and dissemination are key parts of the clinical informatics life cycle and how to apply some common measurement frameworks and study design options

Please sign up to attend using this REDCap link:
https://redcap.vanderbilt.edu/surveys/?s=ATHCYXA3ARA4AEPE

As a reminder, the Vanderbilt Clinical Informatics Center launched Vanderbilt Clinical Informatics Practical Shorts (VCLIPS) last month. These are bite-size instructional videos on practical clinical informatics topics from expert VCLIC faculty. If you've ever wanted to learn more about how to engage with eStar (Epic), create new interventions or tools in our EHR, access data, perform human-centered design or evaluate interventions look no further.

 You can watch these videos, and complete associated hands-on exercises anytime, but we will also continue to have in person sessions for each module where we'll repeat the content live, work through the hands-on exercises together and answer any questions you have. The modules we've released are:

- Overview of VCLIC and Clinical Informatics at VUMC (Adam Wright, PhD)
    - Learn about the history and background of EHR use at VUMC, how to engage with the EHR, and how VCLIC facilitates clinical informatics
- Intro to Epic and Build Capabilities (Aileen Wright, MD, MS; Allison McCoy, PhD)
    - Get an introduction to how providers interact with the EHR for patient chart review and patient visits
    - Learn how to build Best Practice Advisories (BPAs) for clinical decision support and other related components like groupers and preference lists
- Data Resources (Bryan Steitz, PhD; Allison McCoy, PhD)
    - Get an overview of the data resources available, including VICTR's Synthetic Derivative, Research Derivative, and Record Counter and Epic's Hyperspace, Clarity, and Caboodle
    - Learn how to use Excel for data cleaning, descriptive statistics, and presentation-ready data plots
- Human-Centered Design Principles and Processes (Thomas Reese, PharmD, PhD; Megan Salwei, PhD)
    - Learn about how to use human-centered design principles and processes to make interactive systems and tools more usable
- Evaluation and Dissemination of HealthIT Interventions (Adam Wright, PhD; **in person session on May 2nd, 2023 from 1:00-2:30 pm**)
    - Learn why evaluation and dissemination are key parts of the clinical informatics life cycle and how to apply some common measurement frameworks and study design options

Each module has several short explanatory videos, many with demonstrations that you can follow along with, followed by an exercise meant to solidify learning. We will send out more details and signup information for each in-person session over the course of the semester. We hope to see you at the in-person sessions and to engage with you more around this content. Please reach out to me or Elise Russo (elise.russo@vumc.org) with any questions, suggestions or feedback. Please let us know if you have ideas for additional VCLIPS that we could produce – we're hoping to grow our library over time.

2023 Vanderbilt Symposium: Implementation Research in the Learning Health System

Please save the date for the 2023 Vanderbilt Symposium on Implementation Research in the Learning Health System. More information will follow on the schedule of events and registration. We hope to see you there, and stay up-to-date at the symposium website!

CHSR Research Grant: Call for Applications

Vanderbilt Center for Health Services Research
RESEARCH GRANT PROGRAM | call for applications

We are pleased to announce the 2023 cycle of the CHSR Research Grant Program.

The goal of this intramural program is to support innovative research projects that seek to **advance equity in health care delivery and health outcomes**.

Examples of suitable research topics include:

- Integration of social drivers of health screening in clinical care
- Collection or use of accurate race, ethnicity, and language (REaL) data or other demographic data
- Trust/mistrust or experiences with racism in research or clinical care
- Embedding social justice in approaches to reduce disparities and promote health equity
- Mitigation of structural racism or bias to improve health care access or quality
- Advancing health equity through transformational community engagement
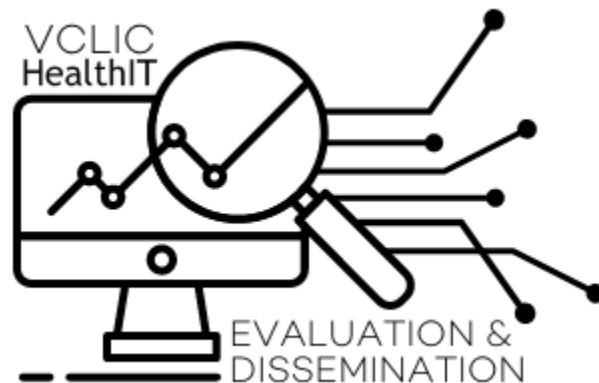
submission deadline
May 3, 2023

All faculty, trainees, and students at VUMC, VU, and MMC are eligible to apply!

This program will support up to 2 research projects with up to $10,000 per award. Projects must be completed within in a 12-month timeframe of July 1, 2023 to June 30, 2024. The proposal guidelines and the submission process may be found on the following website: https://www.vumc.org/hsr/chsr-research-grants.

The **Center for Health Services Research (CHSR)** supports research to develop, implement, and evaluate interdisciplinary solutions to improve health care delivery, equity of care, and health outcomes for patients, families, and the community and is pleased to announce the 2023 cycle of the CHSR Research Grant Program.

VCLIC + HealthIT Evaluation and Dissemination Program

We are still piloting the VCLIC + HealthIT Evaluation and Dissemination Program, run by **Allison McCoy, PhD**, and VCLIC Senior Project Manager **Laura Zahn, MS**.

Evaluation and dissemination are key parts of the clinical informatics life cycle, and critical to understanding the usability and effectiveness of a tool, identifying potential areas for improvement, and sharing the work with others so the benefits can spread. The VCLIC + HealthIT Evaluation and Dissemination Program aims to provide support to researchers and developers across these project stages. This includes projects that are already built and in progress that we can pair with informatics or other VCLIC members to complete the evaluation, either by providing data or help with analyses. We can also help with abstract and manuscript writing to facilitate publication and sharing at conferences.

Do you have a new project idea or one already in progress you'd like assistance with? We want to help! Please use this interest survey to let us know!

Member Spotlight: Laurie Novak, PhD, MHSA, FAMIA

Laurie Novak, PhD, MHSA, FAMIA is an Associate Professor of Biomedical Informatics in the School of Medicine at Vanderbilt University and Director of the Center of Excellence in Applied AI in the Department of Biomedical Informatics. Dr. Novak received a BA in finance from Murray State University, MHSA in health management and policy from the University of Michigan, and PhD in medical and organizational anthropology from Wayne State University. She is an anthropologist specializing in the cultural intersection of technology with everyday life and work. Her projects currently focus on the implementation of artificial intelligence in medicine, including human-centered design, worker competencies, and organizational capabilities required to deploy and manage AI tools. Another major area of inquiry is health equity and the related health care organizational capabilities, data resources, and practices. In the biomedical informatics training program, Dr. Novak teaches social science methods in multiple courses, and a Fall seminar: BMIF 7350: Technology & Society.

We are so happy to feature her as part of our member spotlight this month and are appreciative of her involvement with VCLIC! In her own words:

What are you working on?

 Right now I'm spending time thinking about people, systems, and AI in these ways:

- AI ethics in two NIH consortium initiatives, Bridge2AI, which is working on the development of data resources, and AIM AHEAD, which is focused on increasing researcher diversity in AI. We're interested in how transparency with AI algorithms can be achieved with the general public, how to create a learning community in AI Ethics, how institutions can evolve to improve researcher diversity in AI, how we can assess fairness all along the AI lifecycle, and what that means for organizations training the next generation of AI scholars.
- Implementation of AI-based tools in health care, including organizational capabilities, competencies of workers, interpretability, impact on workflow, and impact on worker roles. In this work I collaborate with friends in the Center for Research and Innovation in Systems Safety (CRISS) and in VU Medical Education. We're particularly interested in patients' perspectives these days.

How have you been involved in VCLIC?

I've been thrilled to work with VCLIC colleagues on these projects, including fieldwork for an implementation project with Adam Wright, and with Allison McCoy, looking at the data needed to evaluate an AI tool. I am excited about the future of applied AI research working with VCLIC!

What areas are you interested in?

I'm really excited about people and systems, ranging from everyday routines of individuals all the way to structural systems that impact our way of perceiving the world.

In addition to AI, I love working with students and other colleagues on projects related to workflow, implementation, and evaluation. My colleague Joyce Harris (another DBMI anthropologist!) and I just completed a project studying rural hospitals, planning for the implementation of innovations in multidisciplinary lung cancer care with Baptist Healthcare in Memphis.

Finally, I always jump at the chance to work on projects related to climate and weather, such as Marily Barron's research project on asthma and portal messaging. What a time to be an informaticist!

 How would you like to collaborate with others?

I've been working with DBMI Postdoc Yasemin Akdas on her very important project looking at how patient experiences of racism are documented in the EHR. The emergence and reification of social determinants of health provides a range of opportunities for us to better understand the healthcare system and the physical and social environment.

Upcoming Conference Submission Deadlines
- [Institute for Healthcare Improvement (IHI) Forum](#)

- Session proposal deadline: April 21, 2023
- [2023 Vanderbilt Symposium on Implementation Research in the Learning Health System](#)
  - [Poster Registration Deadline: April 26, 2023](#)
- [Association for Computing Machinery Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB)](#)
  - Poster/Abstract Submission Deadline: May 14, 2023
  - Paper Submission Deadline: May 22, 2023

Details on upcoming conferences and conference deadlines can be found on our Confluence page, [here](#).

For those of you attending conferences in the next few weeks and presenting posters, we have a template on our [Confluence page](#) that we would encourage you to use.

Presentations, Interviews, Honors, and Awards

Honors/Awards

- **Bryan Steitz, PhD, Trent Rosenbloom, MD, MPH, FACMI, Adam Wright, PhD, Thomas Reese, PharmD, PhD,** Rob Turer, Christoph Lehmann and team's paper on [patients' perspectives on immediate access to test results via an online patient portal](#) has garnered a ton of attention on Twitter ([the Altmetrics are off the chart!](#)) and has been covered by a number of outlets, including [Fierce Healthcare](#), [UT Southwestern](#), [Harvard Gazette](#), [Becker's Hospital Review](#), [Politico](#) and more.
- **Allison McCoy, PhD Trent Rosenbloom, MD, MPH, FACMI** and BRET's Ashley Brady were featured on a panel **"**Be the Best You Can Be" as part of the [ASPIRE series](#).
- **Trent Rosenbloom, MD, MPH, FACMI** talked about [patient portals and personal health records](#) in the Clinical Informatics course this week.
- **Ashley Spann, MD, MSACI** was [highlighted on Twitter](#) by the AASLD Foundation for Women's History Month.
- **Matthew Krantz, MD** discussed "[Mining the EHR for Delayed Hypersensitivity Phenotypes](#)" for a webinar hosted by the American Academy of Allergy, Asthma & Immunology.
- **Megan Salwei, PhD** was selected as a [2023 NIH mHealth Scholar](#) and will attend the NIH mHealth Training Institute this summer at UCLA. Congrats Megan!
- Jessica Ancker, PhD and **Adam Wright, PhD** are part of a collaboration that received an R01 grant from the National Institute of Aging. In partnership with Vanderbilt University Medical

Center, this mixed methods study will develop GEMRA - a machine-learning model designed to identify acute post-ED risk in older adults - into accurate, realtime, EHR-based clinical decision support. The goal is for GEMRA to inform ED-based risk reduction strategies for older adult diseases and vulnerabilities that can be under-recognized in conventional clinical practice.

- **Yaa Kumah-Crystal**, **MD, MPH, MS**; Michael Matheny, MD, MPH, MS; Brad Malin, PhD and **Adam Wright, PhD** were panelists on a live Twitter chat on "ChatGPT and LLMs 101: Opportunities and Risks in Medicine, Research + Learning" for Vanderbilt's DNA Podcast on April 10th.

Conferences and Other Presentations

- **Yaa Kumah- Crystal, MD, MPH, MS** presented on "Leveraging LLMs like ChatGPT in Medicine and Research" at the AI Revolutions Symposium hosted by the Data Science Institute on 3/28.
- **Hannah Slater** (current DBMI PhD student) and Monika Grabowska presented their poster "Network Analysis of Drug Repurposing Studies and Candidates for Alzheimer's Disease" at the 4th Annual Vanderbilt Alzheimer's Disease Research Day.
- **Megan Salwei, PhD** had an abstract accepted for poster presentation at the American Society of Clinical Oncology (ASCO) annual meeting:
  - **Salwei, M.E.**, Reale, C. Lost in translation? Information exchange during breast cancer care and implications for technology design. *Accepted for poster presentation at the American Society of Clinical Oncology Annual Meeting*. June 5, 2023. Chicago, IL.
- Sanlorenzo L, **Alrifai MW**, Timeliness and Accuracy of Bronchopulmonary Dysplasia Diagnosis in Eight US Neonatal Intensive Care Units. Pediatric Academic Societies, Washington, DC, 2023.
- Dye ME, Runyan P, Scott TA, Dietrich MS, Hatch LD, **France DJ, Alrifai MW**. WORKLINE: Assessment of Clinician Workload in the Neonatal Intensive Care Unit. Pediatric Academic Societies, Washington, DC, 2023.
- Wallace M, **Robinson JR**, **Alrifai MW**, Weitkamp JH, Moore SN, Schoenecker JG, Shilin Z, Markowski AE, Upperman JS, Zamora IJ, Blakely ML, Neonatal SOFA Scores Predict Mortality in Infants with Necrotizing Enterocolitis and Spontaneous Intestinal Perforation. Surgical Infection Society Westlake Village, CA, April 2023.
- Wallace M, **Robinson JR, Alrifai MW**, Weitkamp JH, Moore SN, Schoenecker JG, Shilin Z, Markowski, AE, Upperman JS, Zamora IJ, Blakely ML, Neonatal Sequential Organ Failure Assessment (nSOFA) Differentiates Surgical Necrotizing Enterocolitis from Medical Necrotizing Enterocolitis and Spontaneous Intestinal Perforation. Pediatric Academic Societies, Washington, DC, 2023.
- **Thomas J Reese**, Sandra Simmons, Eduard E. Vasilevskis, Avantika Saraf Shah, Emily Hollingsworth, Amanda Mixon. Reinitiating medications after successful deprescribing: a retrospective analysis of a randomized clinical trial. *US Deprescribing Research Network Annual Meeting*. Long Beach, CA; May 3-4, 2023.
- **Thomas J Reese**, Jessica Ancker, **Laura Zahn**, Andrew D. Wiese, David Marcovitz, **Bryan Steitz**, **Siru Liu**, and **Adam Wright**. Race and gender disparities in modifiable factors of buprenorphine treatment. *AcademyHealth, Annual Research Meeting.* Seattle, WA; June 24-27, 2023.

- Nana Addo Padi-Adjirackor, **Thomas J. Reese**, Kevin N. Griffith, **Bryan D. Steitz**, **Adam Wright**, Jessica S. Ancker. Comparative Effectiveness of Telemedicine vs In-person Buprenorphine Prescriptions. *AcademyHealth, Annual Research Meeting.* Seattle, WA; June 24-27, 2023.
- **Benjamin Collins, MD, MA** presented a TEDxVanderbiltUniversity talk on "Navigating the AI Future of Health Care" on April 18!

Publications

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M. Eva Dye, **DNP, NNP-BC**; Patti Runyan, DNP; Theresa A. Scott, MS; Mary S. Dietrich, PhD, MS; L Dupree Hatch, III, MD, MPH; **Daniel France, PhD, MPH**; and **Mhd Wael Alrifai, MD, MS.** Workload In

Neonatology (WORKLINE): Validation and Feasibility of a System for Measuring Clinician Workload Integrated into the Electronic Health Record. Journal of Perinatology, Accepted April 5, 2023.

Reminder to Send Updates for Recognition

If you (or another VCLIC Member) publishes a paper; has an abstract accepted at a conference; are interviewed for or written up in a news article; receive any awards, accolades, or honors; or completed/are currently undertaking any projects you would like to highlight, please email me with or forward this information:

- Names of VCLIC members/VUMC staff who participated in or worked on the project, paper, or abstract (or who received the award/honor)
- The title of the Project, Paper, Abstract, Article, or Award
- The journal, conference, or news publication (this can be podcasts, radio, or more "traditional," news mediums)

Nothing is too big or too small to celebrate, and this information will be featured on the News section of our website as well. As time goes on, I am hoping to also improve our Twitter presence, so feel free to add, tag, or tweet us at @VUMC_VCLIC too!

Thank you, and see you soon!