VANDERBILT CLINICAL INFORMATICS CENTER

# VCLIC News and Happenings, Volume 34

Welcome to VCLIC's third newsletter of 2023! We hope you all had a wonderful spring break and are enjoying the (slowly) warming weather.

Thank you to this month's special seminar presenters, **Brad Lott, PhD**, and **Linying Zhang, MS**. We did not record these sessions but appreciate everyone who joined us for them, in person and remotely!

VCLIC will co-host two seminars with DBMI in April. The first will be presented by **Sarah Rossetti, RN, PhD,** Associate Professor of Biomedical Informatics and Nursing at Columbia University, on April 5th, 2023 from 12:00-1:00 pm CT. Dr. Rossetti will present on *National strategies, priorities, and challenges to reducing documentation burden and evaluating impact.* On April 12th, **Michael Barnett, MD, MS**, Associate Professor of Health Policy and Management at the Harvard T. H. Chan School of Public Health, will present on *Identifying the Mechanisms of Disparities in Cascades of Cardiovascular Care with EHR Metadata.* We hope to see you all there, and please see below for additional details!

We would also like to introduce our third in-person synchronous learning session for VCLIPS (**VCLIC Practical Shorts): Human-Centered Design Principles and Processes** with **Thomas Reese, PharmD, PhD** and **Megan Salwei, PhD,** which will be held on Tuesday, April 18th from 1:00 – 2:30 pm CT. Details and sign-up form are below, and all information about upcoming events is on our website (we also have a VCLIPS session TODAY, March 21st, from 1:00-2:30 at 2525 West End on Data Resources, if you'd like to join us at the last minute we welcome anyone interested! Details are on the events page linked in the previous sentence).

Don't forget to sign up for our upcoming FHIR Workshop with **Dr. Russ Leftwich**, either! This will be on Friday, March 31st, in person, in Light Hall 202, and **Alex Cheng, PhD**, from VUMC DBMI will also present a module on FHIR and REDCap integration. Sign up and more information is available on our events page.

Our featured member this month is **Brian Douthit, PhD, RN-BC,** a VA post-doctoral fellow in Medical Informatics & Quality Improvement and MS student in Biomedical informatics. We are thankful for Brian's wonderful contributions to VCLIC and are happy to spotlight him this month!

Shoutout to all VCLIC members who received acceptances for the AMIA 2023 Clinical Informatics Conference! We are so excited about your achievements and are looking forward to your presentations at the conference in May.

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.

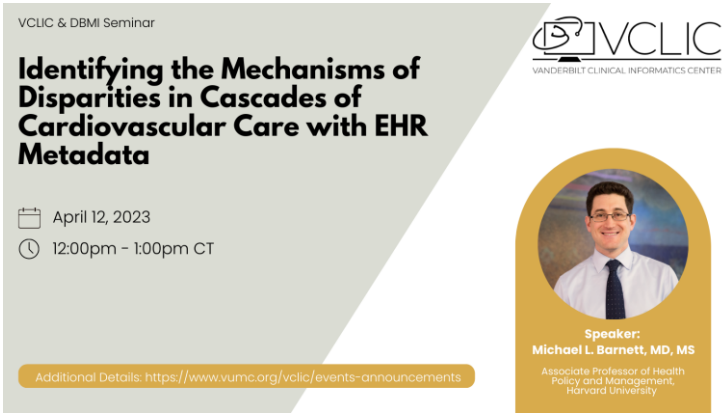
If you have any questions or would like to engage with our team, please email Elise (elise.russo@vumc.org).

## VCLIC Seminar Events

Thank you to our most recent speakers, including **Bradley Lott, PhD**, of UCSF, who spoke on "Characterizing the Relative Frequency of Clinician Engagement with Structured Social Determinants of Health Data" on March 2nd, 2023 and to **Linying Zhang, MS**, from Columbia University, who spoke about "Improving the Reliability of Real-World Evidence Generation From Large-Scale Observational Data: Applications To Effect Estimation and Health Equity," on March 8th, 2023!

Please join us next month as we host **Sarah Rossetti, RN, PhD,** Associate Professor of Biomedical Informatics and Nursing at Columbia University, on April 5th, 2023 from 12:00-1:00 pm CT. We are excited to have her at VUMC **in person**, and you can join us for her talk at 2525 West End in room 8110, or via Zoom, here.

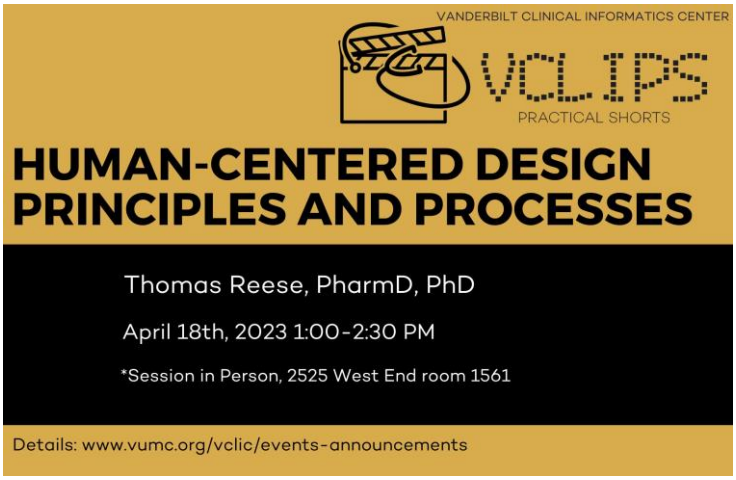
Dr. Rossetti will present on *National strategies, priorities, and challenges to reducing documentation burden and evaluating impact*. This talk will provide an in depth look at national efforts and collaborations focused on reducing documentation burden, including the AMA 25x5 Task Force to Reduce Documentation Burden, which is chaired by Dr. Rossetti, and the National Burden Reduction Collaborative (NBRC), which is co-sponsored by AMIA. Dr. Rossetti will also discuss approaches and challenges around measurement of documentation burden at a national and local level, including the logic model and planned approach to guide evaluation of the AMIA 25x5 Task Force and an AHRQ funded study using a natural experiment opportunity that emerged from the COVID-19 pandemic.




We will also be hosting **Michael Barnett, MD, MS**, Associate Professor of Health Policy and Management from the Harvard T. H. Chan School of Public Health, on April 12th, 2023 from 12:00-1:00 pm CT. Dr. Barnett's talk will be virtual via zoom.

Dr. Barnett will present on *Identifying the Mechanisms of Disparities in Cascades of Cardiovascular Care with EHR Metadata.* The precise mechanisms in health systems that lead to racial and socioeconomic disparities in access to cardiovascular care remains poorly characterized. To address this evidence gap, the individual stages (i.e. order, scheduling, service completion) of two key components in the cardiovascular cascade of care, cardiac stress tests and cardiology referrals, were dissected to identify key processes where disparities in access emerge. This talk will describe components of the cardiovascular cascade of care that may represent barriers to access, how metadata on physician orders in the EHR can be used to examine cascades of care, and how mechanisms of racial and socioeconomic disparities in receipt of cardiovascular may differ by type of service.

## VCLIPS Upcoming Sessions




Please join us for the third monthly VCLIPS Workshop: Human-Centered Design Principles and Processes with **Thomas Reese, PharmD, PhD** and **Megan Salwei, PhD.** This session will be held on Tuesday, April 18th from 1:00-2:30 pm, in person at 2525 West End in room 1561. We will review the material contained in the VCLIPS videos for these topics (found here), and go over the exercises (also found on the website) together, with plenty of time for questions with the instructor. Everyone interested is welcome--there are no pre-requisites or requirements for participation!

**Commented [DN1]:** sounds good!

A brief overview of the topics that will be covered:

- Learn about how to use human-centered design principles and processes to make interactive systems and tools more usable

Please sign up to attend using this REDCap link:
https://redcap.vanderbilt.edu/surveys/?s=JFC447P7R7RYF49L

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; **in person session on March 21st, 2023 from 1:00-2:30 pm**)
    - 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; **in person session on April 18th, 2023 from 1:00-2:30 pm**)
    - 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.

# FHIR Workshop with Russell Leftwich, MD

We are excited to team up with **Russ Leftwich, MD**, an adjunct VUMC DBMI Professor as well as Senior Clinical Advisor for Interoperability for InterSystems. He has traveled the world (and to other academic medical centers/universities) offering this workshop, and we are bringing him home to VUMC on Friday, March 31st for an all-day, in-person session. We have also added VUMC Professor **Alex Cheng, PhD**, to the agenda.

This event is open to VUMC and non-VUMC folks alike!

The workshop will run from 9:00 am to 4:00 pm, and will take place in Light Hall 202. We will release a more detailed itinerary in the next few weeks, but broadly you can expect:

1. Explore FHIR as a key healthcare data standard and data model
2. Explain FHIR Profiles, Resources, and FHIR Extensions
3. Build your own FHIR Profile
4. Tentatively: REDCap on FHIR / FHIR questionnaires

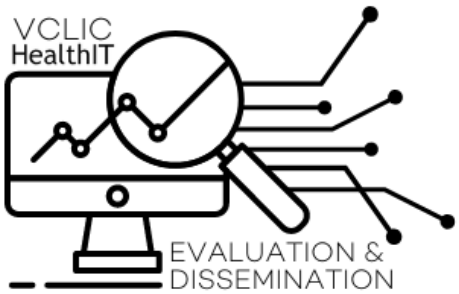
Again, this workshop is open to VU/VUMC folks and non-affiliated folks! There are no pre-requisites, and all you need to participate is a laptop that has a web browser.

Please RSVP so that we can get an accurate lunch order!

Please sign up here: https://redcap.link/3r39ki4c

## 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: Brian Douthit, PhD, RN-BC

**Brian J. Douthit, PhD, RN-BC** is a VA post-doctoral fellow in Medical Informatics & Quality Improvement and MS student in Biomedical informatics. He earned his BSN from the Pennsylvania State University, and both his MSN in informatics and PhD from the Duke University School of Nursing. His clinical background includes medical-surgical nursing and palliative care. He also has operational experience as a board certified informatics nurse having worked for the University of Pittsburgh Medical Centers (UPMC) as an educator and electronic health record (EHR) implementation specialist. Brian's doctoral work focused on developing and testing multiple measures for data readiness of clinical decision support (CDS) via mobile apps, and he continues his research to inform standards to support CDS and the development of metrics and tools to assist in the evaluation of CDS system interactions and outcomes.

We are excited to feature him as part of our member spotlight this month and appreciate his involvement with VCLIC! In his own words:

What are you working on?

I'm currently working on a number of projects to understand EHR-based documentation utility by examining four major factors: documentation influence on patient outcomes, documentation influence on clinician behavior, using existing documentation to support workflows, and legal and institutional requirements. I have already done some work on pressure injury documentation and falls, and am currently working on expanding to other domains. My goal is to develop tangible tools to help implementers and clinical leaders identify documentation that is not helpful to the clinician nor the clinical process, so that it may be removed from the EHR to allow clinicians more time at the bedside.

How have you been involved in VCLIC?

I have collaborated on several projects with other members of VCLIC and have been leveraging data from Epic to explore documentation practices at VUMC. I am also working as a site co-PI on CONCERN, an early warning system to identify patient deterioration leveraging existing nursing data developed at Columbia University. I am always happy to act as a liaison between center members and nursing operations.

What areas are you interested in?

You could say I have too many, but I enjoy working on projects related to clinical decision support development and evaluation, FHIR, solving homelessness, VA data, documentation reduction, alert fatigue and burnout, clinician quality of life, and qualitative methods.

How would you like to collaborate with others?

Any of the above! I would also love to collaborate with other investigators who are developing predictive models so I may help them implement their work in real practice!

## Upcoming Conference Submission Deadlines

- Symposium on Artificial Intelligence for Learning Health Systems (SAIL)
  - Registration opens: March 2023

Commented [DN2]: check

Commented [DN3R2]: still no specific date for registration closing

- AMIA 2023 Annual Symposium
    - AMIA proposal submission deadline: extended to March 21, 2023
- AcademyHealth Annual Research Meeting (ARM)
    - Late Abstracts Submission Deadline: March 27, 2023
- Epic UGM
    - Presentation Proposal Submission Deadline: March 30, 2023
- Machine Learning for Healthcare
    - Abstract Submission Deadline: April 12, 2023
- American Academy of Pediatrics (AAP) National Conference & Exhibition
    - Abstract submission deadline: April 14, 2023
- Institute for Healthcare Improvement (IHI) Forum
    - Session proposal deadline: April 21, 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.

## Presentations, Interviews, Honors, and Awards

### Honors/Awards

Congratulations to **Travis Osterman, DO, MS**, VUMC's new Associate Vice President for Research Informatics!

- **Thomas Reese, PharmD, PhD** was invited to the Junior Investigator Intensive program through the NIA-funded US Deprescribing Research Network's.
- **Yaa Kumah- Crystal, MD, MPH, MS** gave a talk at HealthIT with Joel Doren about chatGPT and productivity, titled "Hidden Benefits of ChatGPT: Optimize Your Workflow And Life".
- **Sunil Kripalani, MD, MSc, SFHM, FACP** and Jenny Slayton, MSN, RN have successfully led VUMC to be selected as a recipient of the PCORI Health Systems Implementation Initiative (HSII)!
    - As an HSII awardee, VUMC will receive funding to implement evidence-based improvement projects within care delivery settings and advance our Learning Health System efforts to translate research into practice for better patient outcomes.
- **Hannah Slater** (current DBMI PhD student) presented at MLK High School in Nashville to provide an information session on biomedical informatics.
- **Laurie Novak, PhD, MHSA, Trent Rosenbloom, MD, MPH, FACMI, Kim Unertl, PhD, MS** and several other informaticians published an editorial on *Dobbs v. Jackson's Women's Health Organization* in *Applied Clinical Informatics* and urged the clinical informatics community to band together and take action to support patients, educate colleagues, address interoperability and privacy gaps and more.
- **Benjamin Collins, MD, MA** joined an AIM-AHEAD panel to discuss "Race as a Variable in Artificial Intelligence" on March 2.
- **Travis Osterman, DO, MS** spoke about the Vanderbilt-Ingram Cancer Center participating in the CancerLinq Quality Initiative in the *VUMC Reporter* last month.
- **Kim Unertl, PhD** presented on high school outreach at the recent ACMI Symposium and had a great conversation about next steps to keep moving forward with this area.
- **Travis Osterman, DO, MS** attended a National Academies of Sciences, Engineering, and Medicine (NASEM) workshop to discuss Incorporating Integrated Diagnostics into Precision Oncology Care.

- **Patty Sengstack, DNP, RN-BC, FAAN** and **Kathy Moss, MSN, MBA, RN, PMP, NEA-BC** joined the VCLIC Clinical Informatics course last week to discuss nursing informatics.
- **Alvin Jeffery, PhD** discussed data science activities in nursing in *Applied Clinical Informatics*.
- **Allison McCoy, PhD** and **Adam Wright, PhD** are part of the AHRQ-funded Clinical Decision Support Innovation Collaborative which launched a new website recently. Check it out here!
- **Trent Rosenbloom, MD, MPH, FACMI** presented at AMIA's Informatics Summit in Seattle last week.
- **Colin Walsh, MD, MA** and team published a study titled "Development and Multi-Site External Validation of a Generalizable Risk Prediction Model for Bipolar Disorder" in *medRxiv*.
- **Travis Osterman, DO, MS** and team published a study "On the Cusp: Considering the Impact of Artificial Intelligence Language Models in Healthcare" in *Med*.

## Conferences and Other Presentations

- Steaban RL, Morrison J., Simmons S., Ivory C., **France DJ**, Leming-Lee S., Kleinpell R, Simulation Modeling to Test New Models of Nursing Care. *2023 ANCC National Magnet Conference® and Pathway to Excellence® Conference*, October 12 - 14, 2023 in Chicago, IL.
- **Salwei ME**, Hoonakker PLT, Wiegmann D, Patterson BW, Carayo P. "Managing work system interactions during the implementation of health IT". Accepted for presentation at the 14th Organizational Design and Management (ODAM) Conference, July 11-13, 2023, Bordeaux, France
- **McCoy AB**, **Russo EM, Sengstack DG, Wright A**. "Enabling Clinical Research and Innovation through a Clinical Informatics Core: Lessons Learned One Year Later." Poster Presentation, AMIA Clinical Informatics Conference. 2023.
- **Steitz BD, McCoy AB**, **Reese TJ, Liu S**, **Russo EM, Wright A**. "Improving Prediction of Imminent Clinical Deterioration using Asynchronous Pages." Oral Presentation, AMIA Clinical Informatics Conference. 2023.
- Turer RW, **Steitz BD**, Lin CT, MacDonald S, Salmi L, **Wright A**, Lehmann C, Langford K, McDonald SA, **Reese TJ,** Sternberg P, Chen Q, **Rosenbloom ST**, DesRoches CM. "Patient Attitudes about Immediate Access to Test Results: An Open Results Study." Oral Presentation, AMIA Clinical Informatics Conference. 2023.
- **Steitz BD,** Turer RW, Holmgren AJ, Kim K, **Rosenbloom ST**. **"**Impact of Open Results on Patients and Providers." Panel Presentation, AMIA Clinical Informatics Conference. 2023.
- **Bauml J.** "A View from the Other Side: Radiology-led Optimization of Clinical Decision Support." Accepted, AMIA Clinical Informatics Conference. 2023.
- **Douthit BJ**, **Sengstack P**, Ivory C, **Reese TJ, Wright A, McCoy AB**. "Preventing Falls: Assessing Nursing Documentation Patterns and Outcomes." Poster Presentation, AMIA Clinical Informatics Conference. 2023.
- **Russo EM, McCoy AB, Wright A**. "Fostering Clinical Informatics Innovation: InformaticCon." Poster Presentation, AMIA Clinical Informatics Conference. 2023.
- Chekeni F, Chaparro JD, **McCoy AB**, Molloy M, Hagedorn P, Kandaswamy S, Orenstein E, Muthu N, Kirkendall E, Hernandez S, Dziorny A. "Distribution of Interruptive Alert Firings Across Five Pediatric Institutions." Poster Presentation, AMIA Clinical Informatics Conference. 2023.
- Molloy M, Chaparro JD, Kandaswamy S, Kirkendall E, Hagedorn P, Orenstein E, Muthu N, Dziorny A, Sinha A, **McCoy AB**. "Development of a Rubric to Qualitatively Assess Interruptive Alerts." Poster Presentation, AMIA Clinical Informatics Conference. 2023.

**Commented [DN4]:** just to confirm- are these poster presentations?

**Commented [DN5R4]:** *send Bryan email

- **McCoy AB**, Chaparro JD, Sakumoto M, Liang WH. "To Tweet or not to Tweet? Social Media Engagement for Clinical Informaticists." Panel Presentation, AMIA Clinical Informatics Conference. 2023.
- **Kumah-Crystal Y**, Ji X, Chen Q, Anders S, Lehmann CU. "Comparing Desktop, Mobile, and Voice Assistant for EHR Information Retrieval and Order Entry." Accepted, AMIA Clinical Informatics Conference. 2023.
- **Huang S**, Jalali A. "Azure Health Data Services for Synthetic Health Data Generation to Accelerate Patient-Centered Outcomes Research Workshop." Accepted, AMIA Clinical Informatics Conference. 2023.
- 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.
- Dye E., **Alrifai W.**, **France DJ**; Hatch LD, Runyan P, Scott TA, Dietrich M. Validation And Feasibility Of A Scoring System For Neonatal Clinician Workload. Pediatric Academic Societies Meeting, April 27 – May 1, 2023, Washington, D.C.
- Fritz CQ, Monaghan AR, Hart SR, Starnes JR, Khanna CB, Lyons GC, **Johnson DP**. Quality improvement to identify and address food insecurity during inpatient admissions. Poster presentation at the annual Pediatric Academic Societies meeting, April 28-May, 2023. Washington, DC.
- Wolf R, Hall M, **Williams DJ**, Antoon J, Carroll AR, Gastineau KAB, Ngo ML, Herndon A, Hart S, Bell DS, **Johnson DP**. Disparities in Pharmacologic Restraint for Children Hospitalized in Mental Health Crises. Platform presentation at the annual Pediatric Academic Societies meeting, April 28-May, 2023. Washington, DC.
- Gastineau KAB, Garfield L, Spencer K, Kreth H, Hart SR, Henricks A, **Johnson DP**. Improving Lethal Means Counseling Documentation for Youth Admitted to a Pediatric Behavioral Health Service. Poster presentation at the annual Pediatric Academic Societies meeting, April 28-May, 2023. Washington, DC.
- Hayes J, Aiello B, Bryant S, Chapman III HK, Kelly T, **Johnson DP, Frazier SB**. Improving time analgesia in patients with long bone fractures in a Pediatric ED. Poster presentation at the annual Pediatric Academic Societies meeting, April 28-May, 2023. Washington, DC.
- 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.
- **Shepherd ME.** "Redesigning Healthcare Delivery: Value-Based Bundles." State and Local Government Benefits Association (SALGBA) National Conference 4/3/2023; New Orleans, LA.
- Wallace M, Robinson JR, **Alrifai MW**, Weitkamp JH, MooreSN, 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.
- **Shepherd ME.** "Employer Innovation in Action: Metro Nashville Public Schools." Direct-to-Employer Summit 3/23/2023; Virtual and Nashville, TN.
- **Shepherd ME.** "Addressing Health Disparities and Obesity in an Employer Population." International Federation of Employee Benefit Plans 32nd Annual Health Benefits Conference & Expo. 01/31/2023; Clearwater, FL. Peer-reviewed.
- **Shepherd ME.** "Integrating Behavioral Health Services into Your EAP and Primary Care Services." National Association of Worksite Health Centers (NAWHC) 10th Annual Forum: Creating and Expanding Worksite Health Centers. 9/9/2022; Nashville, TN.

**Commented [DN6]:** is this a poster or panel presentation?

**Commented [DN7]:** poster presentation?

**Commented [RM8R7]:** I think Sean said this is a workshop! for some of these others, we may just ask Bryan. Yaa's also looks like a workshop...

- **Shepherd ME.** "Workplace Mental Health Interview Series," Health Enhancement Research Organization (HERO) interview with David Hines, MNPS Executive Benefits Director on how workplace mental health is being addressed at MNPS. Recorded 8/24/2022.
- **Shepherd ME,** Johnson J, Cunningham B, Hines D, Stimson C, Poon S. A bundle of joy without the bundle of bills: Co-production of a maternity bundle for an employer-based healthcare plan. American Public Health Association 2021 Annual Meeting and Expo: Creating the Healthiest Nation Strengthening Social Connectedness, Maternal and Child Health Program, October 2021; Virtual and Denver, CO. Peer-reviewed.
- **Shepherd ME.** "Addressing Health Equity in your Center." National Association of Worksite Health Centers (NAWHC) 9th Annual Forum: Creating and Expanding Worksite Health Centers. 9/10/2021; Chicago, IL.
- **Shepherd ME.** "Health Care Disparities: Striving to Understand and Respond." Health Enhancement Research Organization (HERO) Healthy Workplace Healthy Community Committee Meeting. 08/11/2021; Virtual.
- **Shepherd ME,** Lecorps A, Harris-Shapiro J, Miller-Wilson LA. Evaluating outreach methods for the multi-target stool DNA test for colorectal cancer screening among a screening-eligible employer population. American Society of Preventive Oncology 45th Annual Meeting, April 2021; Virtual. Peer-reviewed.
- **Shepherd ME.** A bundle of joy without the bundle of bills: Co-production of a Maternity Bundle for an Employer-Based Healthcare Plan. The Dartmouth Institute for Health Policy & Clinical Practice Winter Symposium. December 2020; Hanover, NH.
- **Shepherd ME.** "Creating a Successful Diabetes Program." National Association of Worksite Health Centers (NAWHC) 8th Annual Forum: Creating and Expanding Worksite Health Centers. 09/25/2020; Virtual.
- **Shepherd ME.** "Population Health at Metro Nashville Public Schools." Health Enhancement Research Organization (HERO) Healthy Workplace Healthy Community Committee Meeting. 08/12/2020; Virtual.

## Publications

Baumrin E, Baker LX, Byrne M, Martin PJ, Flowers ME, Onstad L, El Jurdi N, Chen H, Beeghly-Fadiel A, Lee SJ, **Tkaczyk ER.** Prognostic Value of Cutaneous Disease Severity Estimates on Survival Outcomes in Patients With Chronic Graft-vs-Host Disease. *JAMA Dermatol*. Published online March 8, 2023. doi:10.1001/jamadermatol.2022.6624

**Cronin RM**, Lin CJ, Chiang C, MacEwan S, DeBaun MR, Hyer JM. The Use of FDA-Approved Medications for Preventing Vaso-Occlusive Events in Sickle Cell Disease. *Blood Adv*. Published online March 8, 2023:bloodadvances.2022008965. doi:10.1182/bloodadvances.2022008965

Zhang M, **Liu S**, Bi Y, Liu J. Comparison of 30-day planned and unplanned readmissions in a tertiary teaching hospital in China. *BMC Health Serv Res*. 2023;23(1):213. doi:10.1186/s12913-023-09193-1

Hayes J, Levine M, **Frazier SB**, Antoon JW. Croup associated with COVID-19: A case series. *JEM Rep*. 2023;2(1):100011. doi:10.1016/j.jemrpt.2023.100011

Johnson SR, Benvenuti T, Nian H, Thomson IP, Baldwin K, Obremskey WT, Schoenecker JG, **Moore-Lotridge SN.** Measures of Admission Immunocoagulopathy as an Indicator for In-Hospital Mortality in Patients with Necrotizing Fasciitis: A Retrospective Study. *JB JS Open Access*. 2023;8(1):e22.00106. doi:10.2106/JBJS.OA.22.00106

Hoonakker PLT, Carayon P, Brown RL, Schwei R, Green RK, Rabas M, Hoang L, Wust KL, Rutkowski R, **Salwei ME**, Barton HJ, Shah MN, Pulia MS, Patterson BW, Dail PVW, Krause S, Buckley D, Hankwitz J, Werner NE. Satisfaction of Older Patients With Emergency Department Care: Psychometric Properties and Construct Validity of the Consumer Emergency Care Satisfaction Scale. *J Nurs Care Qual*. Published online February 24, 2023. doi:10.1097/NCQ.0000000000000694

Laws JC, Vance EH, Betters KA, Anderson JJ, Fleishman S, Bonfield CM, Wellons JC 3rd, Xu M, Slaughter JC, **Giuse DA**, **Patel N**, Jordan LC, Wolf MS. Acute Effects of Ketamine on Intracranial Pressure in Children With Severe Traumatic Brain Injury. *Crit Care Med*. Published online February 24, 2023:e005806. doi:10.1097/CCM.0000000000005806

**Wheless L**, Pike MM, Chen HC, Yu Z, Tao R, Bick A, Chung CP, Robinson-Cohen C, Hung A. Genetic Determinants of IL-6 Levels and Risk of ESKD. *Kidney360*. 2023;4(2):241-244. doi:10.34067/KID.0003332022

Campbell BR, Esianor BI, Barrett TW, Casey JD, **Steitz B**, Du L, Gelbard A. Association of Educational Intervention With Knowledge of Airway Injury After Endotracheal Intubation and Tube Size Selection. *JAMA Otolaryngol Head Neck Surg*. Published online February 23, 2023:e225099. doi:10.1001/jamaoto.2022.5099

Sunthankar SD, Zhao J, Wei WQ, Hill GD, Parra DA, Kohl K, **McCoy AB**, Jayaram NM, Godown J. Machine Learning to Predict Interstage Mortality Following Single Ventricle Palliation: A NPC-QIC Database Analysis. *Pediatr Cardiol*. Published online February 23, 2023. doi:10.1007/s00246-023-03130-z

Gruss CL, Kappen TH, Fowler LC, Li G, **Freundlich RE**, McEvoy MD, Rothman BS, Sandberg WS, **Wanderer JP.** Automated feedback modestly improves perioperative treatment adherence of postoperative nausea and vomiting. *J Clin Anesth*. 2023;86:111081. doi:10.1016/j.jclinane.2023.111081

Savai S, Kamano J, Misoi L, Wakholi P, Hasan MK, **Were MC**. Leveraging mHealth usage logs to inform health worker performance in a Resource-Limited setting: Case example of mUzima use for a chronic disease program in Western Kenya. *PLOS Digit Health*. 2022;1(9):e0000096. doi:10.1371/journal.pdig.0000096

Bunney G, Sundaram V, Graber-Naidich A, Miller K, Brown I, **McCoy AB**, Freeze B, Berger D, **Wright A**, Yiadom MYAB. Beyond chest pain: Incremental value of other variables to identify patients for an early ECG. *Am J Emerg Med*. 2023;67:70-78. doi:10.1016/j.ajem.2023.01.054

Schirle LM, Kwun S, Suh A, Sanchez-Roige S, **Jeffery AD** & Samuels, D.C. (2023). Identifying problematic opioid use in electronic health record data: Are we looking in the right place? *Journal of Opioid Management, 19*(1), 5-9.

Campbell BR, Esianor BI, Barrett TW, **Steitz B**, et al. Association of Educational Intervention With Knowledge of Airway Injury After Endotracheal Intubation and Tube Size Selection. *JAMA Otolaryngol Head Neck Surg.* Published online February 23, 2023. doi:10.1001/jamaoto.2022.5099

**Wright A**, Schreiber R, Bates DW, Aaron S, Ai A, Cholan RA, Desai A, Divo M, Dorr DA, Hickman TT, Hussain S, Just S, Koh B, Lipsitz S, Mcevoy D, **Rosenbloom T**, **Russo E**, Ting DY, **Weitkamp A**, Sittig DF. A multi-site randomized trial of a clinical decision support intervention to improve problem list

completeness. *J Am Med Inform Assoc*. Published online February 20, 2023:ocad020. doi:10.1093/jamia/ocad020

Morrow EL, **Mayberry LS**, Duff MC. The growing gap: A study of sleep, encoding, and consolidation of new words in chronic traumatic brain injury. *Neuropsychologia*. Published online February 16, 2023:108518. doi:10.1016/j.neuropsychologia.2023.108518

Schulkey CE, Litwin TR, Ellsworth G, Sansbury H, Ahmedani BK, Choi KW, **Cronin R,** Kloth Y, Ashbeck AW, Sutherland S, Mapes B, Begale M, Bhat G, King P, Marginean K, Wolfe KA, Kouame A, Raquel C, Ratsimbazafy F, Bornemeier Z, Neumeier K, Baskir R, Gebo KA, Denny J, Smoller JW, Garriock HA. Design and Implementation of the All of Us Research Program COVID-19 Participant Experience (COPE) Survey. *Am J Epidemiol*. Published online February 17, 2023. doi:10.1093/aje/kwad035

**Steitz BD**, Turer RW, Lin C, MacDonald S, Salmi L, **Wright A**, Lehmann CU, Langford K, McDonald SA, Reese TJ, Sternberg P, Chen Q, **Rosenbloom ST**, DesRoches CM. Perspectives of Patients About Immediate Access to Test Results Through an Online Patient Portal. *JAMA Netw Open.* 2023;6(3):e233572. doi:10.1001/jamanetworkopen.2023.3572

- Covered in an ONC Blog Post: New Study Shows Patients Prefer Immediate Access to Test Results and have Unmet Information Needs

Jelly CA, Clifton JC, Billings FT 4th, Hernandez A, Schaffer AJ, Shotwell ME, **Freundlich RE.** The Association Between Enhanced Recovery After Cardiac Surgery-Guided Analgesics and Postoperative Delirium. *J Cardiothorac Vasc Anesth*. Published online January 8, 2023:S1053-0770(22)00917-X. doi:10.1053/j.jvca.2022.12.023

Roddy MK, Chen P, **Jeffery AD,** Gutierrez J, Rubenstein M, Campbell C, Blake E, **Ward MJ.** Telemental Health in Emergency Care Settings: A Qualitative Analysis of Considerations for Sustainability and Spread. *Acad Emerg Med*. Published online February 14, 2023. doi:10.1111/acem.14682

## Accepted or in Press

**Douthit BJ**, **McCoy AB, Nelson SD**. "A Review of Clinical Decision Support and Health Equity." IMIA Yearbook of Medical Informatics. 2023. [In Press].

Abraham J, Duffy C, **France DJ**, Greilich P, An Evidence Synthesis on Perioperative Handoffs: A Call for Balanced Sociotechnical Solutions. JAMIA, Accepted February 27, 2023.

Gruss CL, Kappen TH, Fowler LC, Li G, Freundlich RE, McEvoy MD, Rothman BS, Sandberg WS, **Wanderer JP.** Automated feedback modestly improves perioperative treatment adherence of postoperative nausea and vomiting. J Clin Anesth. 2023 Jun;86:111081. doi: 10.1016/j.jclinane.2023.111081. Epub 2023 Feb 20.PMID: 36812833

**Liu S, Wright AP, Patterson BL, Wanderer JP**, Turer RW, **Nelson SD, McCoy AB,** Sittig DF. Assessing the Value of ChatGPT for Clinical Decision Support Optimization.medRxiv. 2023 Feb 23:2023.02.21.23286254. doi: 10.1101/2023.02.21.23286254. Preprint.PMID: 3686514

Sparling J., **France DJ**, Abraham J, Duffy C, Michael M, Riesenberg LA, Lazzara E, Mershon BH, Lane-Fall M, Keebler JR, **Weinger MB**, Greilich P. Handoff Effectiveness Research in periOperative environments (HERO) Design Studio Conference Report. Joint Commission Journal on Quality and Safety. Accepted February 7, 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!**