VCLIC News and Happenings, Volume 33

Happy February! VCLIC is excited to present our second newsletter of the year and we hope you all have been having a great 2023 so far.

We will be hosting two special seminars next month: one on Thursday, March 2nd, 2023 from 12:00-1:00 pm CT with **Bradley Lott, PhD**, who will be presenting on *Characterizing the Relative Frequency of Clinical Engagement with Structured Social Determinants of Health Data.* Additionally, on Wednesday, March 8th, 2023 from 11:00 AM – 12:00 PM we will host **Linying Zhang, MS,** from Columbia University. Ms. Zhang will present on *Improving the Reliability of Real-World Evidence Generation from Large-Scale Observational Data: Applications to Effect Estimation and Health Equity.* We hope to see you all there and please see below for additional details.

We would also like to introduce our second in-person synchronous learning session for VCLIPS (**VCLIC Practical Shorts): Data Resources** with **Bryan Steitz, PhD, and Allison McCoy, PhD,** which will be held on Tuesday, March 21st from 1:00 – 2:30 pm CT. Details and sign-up form are below, and all information about upcoming events is on our website: https://www.vumc.org/vclic/events-announcements

Don't forget to sign up for our upcoming FHIR Workshop with Dr. Leftwich, either!

Soft launching this month is the VCLIC + HealthIT Evaluation and Dissemination Program, helmed by **Allison McCoy, PhD,** and **Laura Zahn, MS**. We will have more information for everyone on this program soon but wanted to start spreading the news now!

Our featured member this month is **Eddie Qian, MD, MS,** a Clinical Fellow in Pulmonary and Critical Care Medicine and upcoming Assistant Director for Quality and Education of the Medical ICU. We are appreciative of all his amazing contributions to VCLIC and are delighted to feature him this month!

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

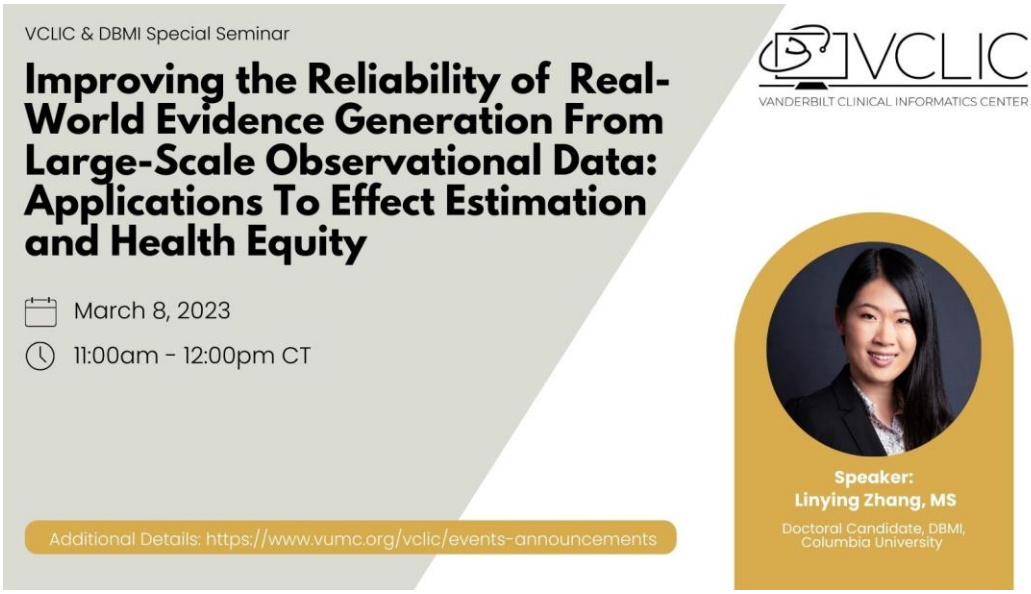
Thank you to our most recent speakers, including **Julia Adler-Milstein, PhD** of UCSF, who spoke on "Turning Digital Fumes into a Breath of Fresh Air," (link to her talk in DBMI's Box folder) on January 25th,

2023; **Adam Wright, PhD; Julian Genkins, MD; Ashley Spann, MD, MS; Aileen Wright, MD, MS; and Dara Mize, MD** for giving a Clinical Informatics Update on February 1st, 2023 (see the talk on YouTube); and lastly to **Bryan Steitz, PhD**, who spoke about "Promoting Engagement Through Information Sharing: Understanding the Impact of Open Results on Patients and Providers," on February 15th, 2023 (link to his talk in DBMI's Box folder).

Next, we have **Bradley Iott, PhD**, of UCSF presenting during the DBMI Colloquium on March 2nd, 2023, at 12:00 pm CT:

This talk will be in person in room 8110 at 2525 or on Zoom here.

And we will have **Linying Zhang, MS**, from Columbia University, present during a special seminar time on March 8th, 2023, at 11:00 am CT:



Linying's talk will also be in person in room 8110 or on Zoom, here.

VCLIPS Upcoming Sessions

Please join us for the second monthly VCLIPS Workshop: Data Resources with **Bryan Steitz, PhD, and Allison McCoy, PhD**. This session will be held on Tuesday, March 21st from 1:00-2:30 pm, in person at 2525 West End (room to be identified soon). 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 instructors. Everyone interested is welcome--there are no pre-requisites or requirements for participation!

A brief overview of the topics that will be covered:

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

Please sign up to attend using this REDCap link: https://redcap.link/e4o0ufsl

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; **in person session on February 21st, 2023 from 1:00-2:30 pm**)
    - 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

VCLIC is excited to be working with **Russell Leftwich, MD**, Professor of Biomedical Informatics at Vanderbilt and Senior Clinical Advisor for Interoperability at InterSystems, to provide interested folks at VUMC with an opportunity to have a hands-on, all-day experience (in person) learning about, designing, and building FHIR Applications.

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

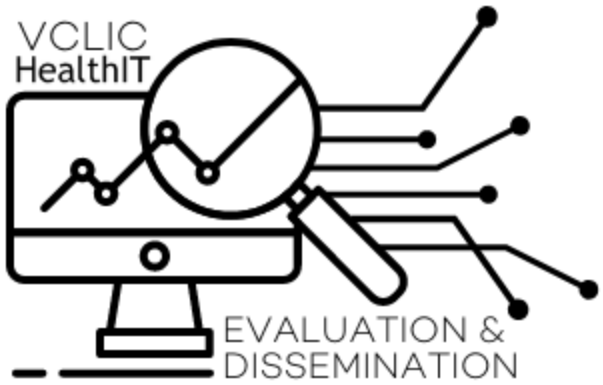
1. Explore FHIR as a key healthcare data standard and data model
2. Explain FHIR Profiles, Resources, and FHIR Extensions
3. Build your own FHIR Profile
4. Tentatively: REDCap on FHIR / FHIR questionnaires

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

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

Introducing the VCLIC + HealthIT Evaluation and Dissemination Program

New this month is 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.

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: Eddie Qian, MD, MS

Dr. Eddie Qian is a Clinical Fellow in Pulmonary and Critical Care Medicine and will join faculty July 2023 as the Assistant Director for Quality and Education of the Medical ICU. He graduated from the University of Delaware, received his MD from New York University School of Medicine, and trained in Internal Medicine at Vanderbilt where he also completed his Pulmonary and Critical Fellowship and Master in

Applied Clinical Informatics. Dr. Qian's clinical interests are in intensive care medicine and post-intensive care recovery. His clinical research interests are in empiric antibiotic use in sepsis and his informatics research interests include EHR embedded clinical trials, interruptive alert de-escalation, and prospective validation of machine learning models.

When asked about his VCLIC Participation, Dr. Qian said:

"I'm very excited to continue working with VCLIC as I finish my clinical fellowship and join faculty! My primary project has been a randomized controlled trial in empiric antibiotic use (the ACORN trial) which leveraged the EHR for screening, enrollment, randomization, trial monitoring, and data acquisition for baseline characteristics and outcomes. Being a part of the VDAWGs program was CRITICAL in facilitating scheduled data monitoring reports during the trial and rapid iterations with our biostatics team during the analysis phase. In the future I'm interested in methods of prospectively evaluating interruptive alerts and prospective validation of the effect of machine learning models on clinical care and outcomes. I know many are others are already experts in these spaces and hope collaborate in the near future!"

Upcoming Conference Submission Deadlines

- Symposium on Artificial Intelligence for Learning Health Systems (SAIL)
  - Registration opens: March 2023
- Epic UGM
  - Deadline for Presentation Proposal Submission: End of Spring (TBA) ***proposal submission now open**
- American Medical Informatics Association (AMIA) Annual Symposium
  - All Submissions Deadline: March 8, 2023
- AcademyHealth Annual Research Meeting (ARM)
  - Late Abstracts Submission Deadline: March 27, 2023
- Machine Learning for Healthcare
  - Abstract Submission Deadline: April 12, 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 **Dara Mize, MD**, on being named Chief Medical Information Officer for VUMC! We are so excited for Dr. Mize and this new role!

- **Robert Freundlich, MD, MS, MSCI** attended the 2023 Society of Critical Care Medicine (SCCM) conference recently, where he was named Fellow of the American College of Critical Care Medicine!
- Lisa Bastarache, MS and **Josh Peterson, MD, MPH** published a paper "Phenotypic Convergence: A Novel Phenomenon in the Diagnostic Process of Mendelian Genetic Disorders" in medRxiv.
- **Lyndsay Nelson, PhD** was recently named Assistant Director of the CCQIR.
    - Her research focuses on designing digital tools that engage and empower patients to improve their health and implementing these tools in routine clinical care.
- **Sean Huang, MD** has successfully passed the American Board of Preventative Medicine (ABPM) certifying examination and effective January 1st, 2023, is now a certified specialist in Clinical Informatics. Congratulations!
- **Martin Were, MD, MS**, professor of Biomedical Informatics and Medicine, has been named as the inaugural vice chair for Diversity, Equity and Inclusion (DEI) for the Department of Biomedical Informatics (DBMI) at Vanderbilt University Medical Center.
- **Megan Salwei, PhD** has joined the JAMIA Editorial Board for 2023-2025.
- **Trent Rosenbloom, MD, MPH**, has been featured as a guest speaker on a AMIA podcast titled, "For Your Informatics: Episode 31- Teens, Portals, and 21st Century Cures Act" focused on information blocking and sensitive health data, more specifically, the newly implemented 21st Century Cures Act and the unanticipated impact these regulations have on teens, parents, and providers
- **Jake Hughey**, **PhD**, and team published a piece "LimoRhyde2: Genomic Analysis of Biological Rhythms Based on Effect Sizes" in *bioRxviv*.

- **Siru Liu, PhD** and **Allison McCoy, PhD, Thomas Reese, PharmD, PhD, Bryan Steitz, PhD, Elise Russo, MPH, PMP, Adam Wright, PhD** and Brian Koh were featured in the VUMC Reporter for their use of machine learning based on EHRs of intensive care patients who had received periodic assessments for delirium during their hospital stays to gauge risk of delirium in hospitalized adult patients.
- **Kevin Johnson, MD, MS** and team's paper "REDCap on FHIR: Clinical Data Interoperability Services" (*Journal of Biomedical Informatics, Sept. 2021)* was selected as one of the best articles published in 2021 in the "Clinical Research Informatics" section of the 2022 IMIA Yearbook of Medical Informatics.
- **Yaa Kumah-Crystal, MD, MPH, MS** recently attended the Gates Foundation Meeting on Voice and Digital technology in Seattle and discussed emerging AI with Eric Horvitz, Microsoft's Chief Scientific Officer.
- **Ashley Spann, MD, MS** will officially be joining DBMI as an Assistant Professor Physician Scientist in July 2023! She will also be stepping into the role of Director of Clinical Research Informatics for the Department of Gastroenterology at VUMC.

Conference and other Presentations

- **Travis Osterman, DO, MS** discussed "Predicting Efficacy and Toxicities Prior to Immune Checkpoint Inhibitor Treatment" and the ongoing collaboration between VUMC and GE Healthcare at the I/O 360 Conference in New York.

Publications

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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!