

VANDERBILT CLINICAL INFORMATICS CENTER

VCLIC News and Happenings, Volume 36

Welcome to VCLIC's May newsletter! As the spring season and academic year wrap up, we are working on planning next (academic) year's events. Thank you to everyone who provided feedback to us on this year's events so that we can continue to offer beneficial and engaging programming. Look for information this summer about our Fall 2023 calendar, but next month's newsletter will be replaced by our Annual Report!

First off, we are hitting our spring conference stride. Last week (and continuing into this week) was/is Epic's annual conference for expert interactions, **XGM 2023**, and those of us who attended had a blast presenting our work and visiting with each other and our Epic teammates. Please see below for a short recap of the conference.

We also had a handful of VCLIC members present work at the **Implementation/LHS Symposium** at VUMC on Monday, May 15th.

<u>The 2023 AMIA Clinical Informatics Conference</u> is coming up next week, May 23-25th, in Chicago, IL. We are looking forward to hopefully seeing a lot of you there! Please reference the VCLIC member presenter schedule provided below to see where our members will be (and when).

This month, we wrapped up our **Seminar Series** for the year along with our synchronous learning series for <u>VCLIPS</u> (**VCLIC Practical Shorts**). The VCLIPS videos are available for asynchronous learning yearround, at any time that's convenient for you. Thank you to our spectacular VCLIC members for spearheading the workshops, and all of you who attended! We hope to even further broaden the range of practical clinical informatics topics covered in the future, so feel free to reach out to us regarding any questions, suggestions, or topics for new VCLIPS. If you'd like to produce a VCLIP yourself, we'd be very happy to hear from you – it's a lot of fun, and a good way to help your VCLIC colleagues.

Congratulations are in order for our two recipients of the **2023 Physician Builder Award**: **Julie Bauml**, **MD**, **and Aileen Wright**, **MD**, **MS**! The article detailing their accomplishments (in the VUMC Reporter) is linked below.

Additionally, we would like to highlight the **MS in Applied Clinical Informatics (MSACI)** program and feature this year's graduating student capstone projects. Congratulations to all the program participants, and please see below for an overview of the projects they have completed!

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).

Epic XGM Recap

It was so much fun to see and hear from many of our wonderful VCLIC members at Epic's 2023 XGM conference May $8^{th} - 12^{th}$ in Verona, WI! The pictures are only a snippet of all the fun we had.

VCLIC Member Presentations:

- Yaa Kumah-Crystal, MD, MPH, MS: No Thank You: In Basket Volume Reduction
- Allison McCoy, PhD, Adam Wright, PhD & Elise Russo, MPH, PMP: Enabling Clinical Research and Innovation through a Clinical Informatics Core
- Elise Russo, MPH, PMP, Adam Wright, PhD, & Allison McCoy, PhD: Enabling Informatics Innovators to Access Data
- Jonathan Wanderer, MD: Quality Improvement for Obstetric Anesthesia: Tales from Two Institutions



Implementation/LHS Symposium

On Monday, May 15th, several VCLIC members attended and presented at the CCQIR-sponsored Implementation and Learning Health System Symposium. Presenters included **Aileen Wright, MD, MS**; **Eddie Qian, MD, MS; Derek Williams, MD, MPH; and Michael Cauley, PhD**. Congratulations to everyone and thank you for sharing all the fantastic implementation science work you do at VUMC!

VCLIC Events

Thank you to this month's seminar presenter, **Jesse Ehrenfeld, MD, MPH**, who spoke on <u>*Reducing*</u> <u>*Provider Burnout and Supporting Provider Well-Being*</u> on May 3, 2023.

Though our synchronous learning sessions are finished, you can still view our <u>Vanderbilt Clinical</u> <u>Informatics Practical Shorts (VCLIPS)</u> on our website. 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 humancentered design or evaluate interventions look no further. We are hoping to add videos to our library, so if you have ideas for VCLIPS, reach out to Elise or Adam!

Julie Bauml, MD and Aileen Wright, MD, MS win Physician Builder Award



Julie Bauml, MD



Aileen Wright, MD, MS

Congratulations to Julie Bauml, MD and Aileen Wright, MD, MS for winning the <u>2023 Physican Builder</u> Award, as part of the eStar Physician Builder Program!

Directed by **Jon Wanderer, MD**, the eStar Physician Builder Program supports VUMC physicians and other employees in devising and implementing new content and tools for VUMC's health IT system, eStar. The Physician Builder awards, sponsored by VCLIC, serve to annually recognize program participants for their significant contributions to health information technology.

Highlighting a few of their contributions to the eStar Physician Builder Program, **Bauml, MD** was credited with streamlining clinical workflow while working with radiologists for eStar enhancements and **Wright, MD** was recognized for leading the Physician Builder's group within the Department of Medicine and helping design and build several effective enhancements.

We are so excited about their future involvement in the eStar Physician Builder Program, and once again, would like to congratulate both on this remarkable achievement!

MSACI Spotlight

The <u>MS in Applied Clinical Informatics (MSACI) program</u>, is offered by the Department of Biomedical Informatics and serves to provide innovative clinical informatics education for working professionals in the health care field. Graduates assume leadership roles in the application and innovation of clinical informatics nationally, applying their skills and knowledge to make a tangible difference for individuals and systems in health and biomedicine. The spring 2023 cohort of MSACI students has successfully completed their capstone projects, which are featured below. Congrats to all of the graduates!



Development, Validation, and Deployment of a Postpartum Hemorrhage Risk Prediction Model

Holly Ende, MD

Practice Mentor: Jonathan Wanderer

Committee Chair: Allison McCoy

Postpartum hemorrhage is a major cause of maternal morbidity and mortality, both worldwide and in the United States. The majority of hemorrhage-related adverse outcomes have been demonstrated to be preventable. Thus, the American College of Obstetricians and Gynecologists recommends that all hospitals develop protocols to coordinate rapid identification and management of postpartum hemorrhage, in order to reduce morbidity. Multiple national organizations have developed risk assessment tools to identify patients at risk for PPH; however, recent work suggests prediction models may perform superior risk stratification. This presentation will describe our work at VUMC to internally develop and validate a risk prediction model for postpartum hemorrhage which is automated, embedded into the electronic health record, and can produce risk predictions in real-time.

A Clinical Decision Support Tool for the Diagnosis and Treatment of Secondary Hypertension

Beau Mack, MD

Secondary hypertension is a common reason that some patients have uncontrolled hypertension. Primary aldosteronism is an important cause of secondary hypertension that is underdiagnosed. This work consists of a clinical decision support tool to aid in the detection, confirmation, and treatment of a variety of causes of secondary hypertension. A novel risk model is incorporated to aid in selection of patients at increased risk of having an abnormal primary aldosteronism screening test. This tool is intended to be used in a primary care setting where most of these patients are seen, but where the time to devote to screening for secondary hypertension may be the most constrained.

Implementation of a CDS tool in the emergency department: AgileMD Pathways

Casey Distaso, MD

Emergency medicine providers are required to quickly triage patients and provide efficient care while dealing with the burdens of high patient volume, overcrowding, and frequent workflow interruptions. Development and implementation of clinical decision support tools can assist in the effective and efficient management of patients by decreasing provider cognitive fatigue, streamlining workflows, and ultimately enhancing patient care. This presentation will describe the implementation of a customizable third-party CDS application, AgileMD, that has been integrated into the EHR at VUMC. Utilizing the AgileMD software, we have developed clinical workflow "pathways" to assist providers with diagnosis, decision-making, and management of patients in our adult emergency department.

CDS for patients with acute myocardial infarction

Jason Chen, MD

Guideline directed therapy in patients suffering from Acute Myocardial Infarction (AMI) has been shown to improve outcomes. National audits are done to evaluate care in these patients. An all or none method is used to determine adherence to the guidelines. The six criteria being assessed include "aspirin at arrival", "aspirin at discharge", "beta-blocker at discharge", "ace inhibitor or ARB for left ventricular systolic dysfunction at discharge", "lipid-lowering therapy at discharge", and "smoking cessation counselling". Our institution's current performance stands at 90% which indicates room for improvement. Furthermore, the audit process is time consuming and requires many laborious manhours to read through the case notes and elucidate the reasons for non-compliance.

We propose a clinical decision support tool in the form of a BPA which can guide the clinician through ordering guideline directed medical therapy hoping to improve the delivery of quality care and alleviate the manpower resource needed to audit this.

Electronic Health Record Clinical Trials: Strengths and Limitations

Edward Qian, MD

Clinical trials in medicine begin with a provocative clinical question from a curious investigator. Traditionally, each step of the trial process is labor intensive and expensive. They require intense human resources often using the Electronic Health Record (EHR). While unable to streamline every step of the process in every trial, there are many trials whose design could be aided by informatics support or clinical questions that could be adequately designed in a way to allow for more informatics support. It is important to learn the areas of strength, opportunity, and potential weaknesses of leveraging the EHR for randomized controlled trials.

ARDS Sniffer

Anirban Bhattacharyya, MD, PhD

Acute respiratory distress syndrome (ARDS) sniffer is a clinical decision support (CDS) tool that will alert caregivers about the probability of a patient having ARDS based of chest X Ray images. Convolutional neural network models were used to determine if a chest X ray has ARDS or pneumonia or neither. Patient populations at risk were pre-determined. The anticipated benefit of an imaging based CDS versus a radiology report based CDS would be the efficiency of alert delivery.

2023 AMIA CIC Presenter Schedule

<u>The 2023 AMIA CIC Conference</u> will be held May 23-25th at the Hilton Chicago hotel in Chicago, IL and the schedule below outlines the presentations of VCLIC members:

Tuesday, May 23

8:00 – 10:00 AM CDT Workshop, Grand Ballroom

W01: Azure Health Data Services for Synthethic Health Data Generation to Accelerate Patient-Centered Outcomes Research Workshop – Arash Jalali, Karl Kochendorfer, Sean Huang

10:30 – 12:30 PM CDT Workshop, Salon A3

W08: PINA Workshop: Pitching for Resources, Swinging for the Fences – A Workshop for Clinical Informatics Leaders on Making the Business Case for Organizational Resources – Dr. Benjamin Rosner, Dr. Deepti Pandita, Gretchen Jackson, Christopher Longhurst, Robert Leviton, Dr. Randa Perkins

2:00 – 4:00 PM CDT Workshop, Salon A3

W13: Organizational Issues and Informatics: Translating Theory into Practice – Kim Unertl and Saira Haque

4:15 – 5:15 PM CDT Poster Session 1, Salon B

2232: Fostering Clinical Informatics Innovation: InformaticCon – Elise Russo, Allison McCoy, Adam Wright

2188: Preventing Falls: Assessing Nursing Documentation Patterns and Outcomes – Dr. Brian Douthit, Patty Sengstack, Cathy Ivory, Thomas Reese, Adam Wright, Allison McCoy

2249: Distribution of Interruptive Alert Firings Across Five Pediatric Institutions – Dr. Faraaz Chekeni, Juan Chaparro, **Allison McCoy**, Matthew Molloy, Philip Hagedorn, Swaminathan Kandaswamy, Evan Orenstein, Naveen Muthu, Eric Kirkendall, Sean Hernandez, Adam Dziorny

2178: Development of a Rubric to Qualitatively Assess Interruptive Alerts – Dr. Matthew Molloy, Juan Chaparro, Swaminathan Kandaswamy, Eric Kirkendall, Philip Hagedorn, Evan Orenstein, Naveen Muthu, Adam Dziorny, Atish Sinha, **Allison McCoy**

Wednesday, May 24

9:30 – 10:30 AM CDT Oral Presentation, Salon A1

S02: Patient Portals and PHRs: Patient Attitudes About Immediate Access to Test Results: An
 Open Results Study – Dr. Robert Turer, Bryan Steitz, Chen-Tan Lin, Scott MacDonald, Liz Salmi,
 Adam Wright, Christoph Lehmann, Karen Langford, Samuel A McDonald, Thomas J Reese,
 Paul Sternberg, Qingxia Chen, Trent Rosenbloom, Catherine M DesRoches

11:00 – 12:00 PM CDT Panel, Grand Ballroom

S07: Chat GPT Fireside Chat – Dr. Yaa Kumah-Crystal and Craig Joseph

2:00 – 3:00 PM CDT Panel, Grand Ballroom

S12: To Tweet or not to Tweet? Social Media Engagement for Clinical Informaticists – Dr. Wayne Liang, **Dr. Allison McCoy**, Dr. Juan Chaparro, Dr. Matthew Sakumoto

2:00 – 3:00 PM CDT Panel, Salon A3

S15: Impact of Open Results on Patients and Providers – Bryan Steitz, Robert Turer, AJ Holmgren, Katherine Kim, **Trent Rosenbloom**

3:30 – 4:30 PM CDT Oral Presentation, Salon A1

S19: Decision Support and Governance: Best Practices for Creating and Maintaining Clinical Value Sets – Dr. Adam Wright

5:45 – 6:45 PM CDT Poster Session 2, Salon B

2308: A View from the Other Side: Radiology-led Optimization of Clinical Decision Support – Dr. Julie Bauml, Allison McCoy, Adam Wright

2159: Enabling Clinical Research and Innovation through a Clinical Informatics Core: Lessons Learned One Year Later – Dr. Allison McCoy, Donnie Sengstack, Elise Russo, Adam Wright

Thursday, May 25

8:00-9:00 AM CDT Oral Presentation, Salon A2

S31: Predictive Analytics to Save Lives: Improving Prediction of Imminent Clinical Deterioration using Asynchronous Pages – Bryan Steitz

9:15 – 10:15 AM CDT Oral Presentation, Salon A1

S35: Designing Effective Communication: Comparing Desktop, Mobile, and Voice Assistant for EHR Information Retrieval and Order Entry– Dr. Yaa Kumah-Crystal

9:15 – 10:15 AM CDT Panel, Salon A3

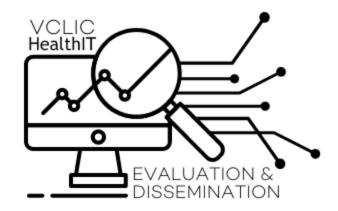
S37: Informatics in Surgical and Procedural Workflows: Unique Needs, Challenges, and Opportunities – Dr. Jacqueline Soegaard Ballester, Dr. Kevin Sexton, Dr. Joseph Sanford, Dr, Genevieve Melton-Meaux, **Dr. Gretchen Purcell Jackson**

10:45 – 11:45 AM CDT Panel, Grand Ballroom

S40: Interoperable Clinical Decision Support System; opportunities, risks, and emerging technologies – Colleen Mallozzi, Dr. Frank Pandolfe, Richard Schreiber, Jonathan Teich, Dr. Adam Wright

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!

Center for Effective Health Communication Research Grant Program

2023 - 2024 Health Communication Research Grant Program Apply Now!

This grant supports the development, implementation, and evaluation of research projects or training activities that involve health communication, and aim to foster health communication research at VUMC that will ultimately benefit patient management and outcomes.

SUBMISSION DEADLINE: JUNE 16, 2023

All faculty, staff, and students at VUMC are eligble to apply.

Program may support a budget up to \$10,000. Project must be completed by June 30, 2024.

Examples of topics:

- Pilot testing a health communication intervention on patient outcomes
- · Qualitative study on patient/family medical decision making
- Secondary data analysis of health literacy and numeracy on outcomes
- Evaluation of a health professional communication skills training program
- · Survey of patients/families with limited English proficiency to determine unmet healthcare needs

Proposal guidelines and submission information can be found here: https://www.vumc.org/cehc/2023-cehc-health-communication-grant



Vanderbilt Center for Effective Health Communication The **Center for Effective Health Communication (CEHC)** supports health communication research, education, and practice to improve patient's knowledge, self-management, and health outcomes. **Health Communication** is a broad field that includes health literacy, numeracy, risk communication, medical decision-making, patient- centered communication, cross-cultural communication, and other related areas.

<u>Health Communication Research Grants</u> are intended to support discrete research projects that can be completed in a 12-month timeframe, starting July 1, 2023, through June 30, 2024. These grants are not intended to supplement already funded research projects unless it is to add a new element related to health communication.

The submission deadline is *June 16, 2023* and all faculty, staff, and students at VUMC are eligible to apply. Trainees may apply to serve as the principal investigator but **must** have a faculty mentor from VUMC who is actively involved with the project.

Upcoming Conference Submission Deadlines

- Association for Computing Machinery Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB)
 - Paper Submission Deadline: May 22, 2023
- <u>Conference on Neural Information Processing Systems (NeurIPS)</u>
- Supplemental material submission deadline: May 24, 2023
- <u>American Nursing Informatics Association (ANIA)</u>
 - Speaker/Podium Abstracts: July 30, 2023
- Society for Industrial and Applied Mathematics (SIAM) Annual Meeting
 TBD: Details provided September 2023
- Association for Computing Machinery CHI
 - Poster/Abstract Submission Deadline: September 7, 2023
- Institute for Healthcare Improvement (IHI) Forum
 - Poster Deadline: November 1, 2023

Details on upcoming conferences and conference deadlines can be found on our Confluence page, <u>here</u>.

For those of you attending conferences in the next few weeks and presenting posters, we have a template on our <u>Confluence page</u> that we would encourage you to use.

Presentations, Interviews, Honors, and Awards

Honors/Awards

- Siru Liu, PhD will officially be joining DBMI as a tenure-track Assistant Professor in August 2023! Congrats Siru!
- Sunil Kripalani, MD, MSc, SFHM, FACP served as a moderator for the "AAPI Pioneers in Medicine at VUMC," virtual panel event that featured a few of DBMI's AAPI healthcare leaders in celebration of Asian-American and Pacific Islander Heritage Month.
- Adam Wright, PhD and Allison McCoy, PhD wrapped up their Spring 2023 course: BMIF 7340 Clinical Informatics this month congrats!
- Adam Wright, PhD was featured on Nordic's podcast: Designing for Health: Dr. Adam Wright

Conferences and Other Presentations

- Jon Wanderer, MD gave a talk, titled "Quality Improvement for Obstetric Anesthesia: Tales from Two Institutions", at XGM this month.
- Michael Cauley, PhD, DMin had an acceptance to a paper session, titled "Relational Factors of Documenting Practice in Patient Care", for presentation at the 83rd Annual Meeting of the Academy of Management in Boston in August. Michael will be presenting this paper within Communication, Digital Technology, and Organization Division. Congrats!
- **Michael Cauley, PhD, DMin** will also be leading a round table discussion on Implementation Science as part of a Professional Development Workshop, within the Health Care Management Division, at the 83rd Annual Meeting of the Academy of Management this August!
- Congrats to **Bryan Steitz, PhD** for an accepted presentation for "Strategies to Improve Immediate Release of Test Results for Patients and Providers", for UGM 2023 at Epic's campus in Verona, WI!
- Congrats to Allison McCoy, PhD for an accepted presentation for UGM 2023, titled "Catastrophic Disaster Stories: Stories of Survival and Lessons Learned from CDS Gone Wrong"!
- Aileen Wright, MD, MS and Siru Liu, PhD presented their latest paper "<u>Using Al-generated</u> <u>Suggestions from ChatGPT to Optimize Clinical Decision Support</u>" on May 11 at *JAMIA* Journal Club.

Publications

Guzauskas GF, Garbett S, Zhou Z, Schildcrout JS, Graves JA, Williams MS, Hao J, Jones LK, Spencer SJ, Jiang S, Veenstra DL, **Peterson JF.** <u>Population Genomic Screening for Three Common Hereditary</u> <u>Conditions : A Cost-Effectiveness Analysis.</u> *Ann Intern Med*. Published online May 9, 2023. doi:<u>10.7326/M22-0846</u>

Novak LL, Russell RG, Garvey K, et al. <u>Clinical use of artificial intelligence requires Al-capable</u> <u>organizations</u>. *JAMIA Open*. 2023;6(2):ooad028. doi:<u>10.1093/jamiaopen/ooad028</u>

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Cunningham-Erves J, Wilkins CH, Dempsey AF, Jones JL, Thompson C, Edwards K, Davis M, **Mayberry LS**, Landsittal D, Hull PC. <u>Correction: Development of a Tailored Mobile Phone-Based Intervention to</u>

<u>Facilitate Parent-Child Communication and Build Human Papillomavirus Vaccine Confidence: Formative</u> <u>Qualitative Study.</u> JMIR Form Res. 2023;7:e48412. doi:<u>10.2196/48412</u>

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Krause KJ, Shelley J, Becker A, **Walsh C**. <u>Exploring Risk Factors in Suicidal Ideation and Attempt Concept</u> <u>Cooccurrence Networks</u>. *AMIA Annu Symp Proc*. 2022;2022:644-652.

Mize DE, Osterman TJ. <u>A Unified Approach to Clinical Informatics Education for Undergraduate and</u> <u>Graduate Medical Education</u>. *AMIA Annu Symp Proc*. 2022;2022:766-774.

Johnson DH, Fehrenbacher L, Novotny WF, et al. <u>Randomized Phase II Trial Comparing Bevacizumab Plus</u> <u>Carboplatin and Paclitaxel With Carboplatin and Paclitaxel Alone in Previously Untreated Locally</u> <u>Advanced or Metastatic Non-Small-Cell Lung Cancer.</u> *J Clin Oncol*. 2023;41(13):2305-2312. doi:10.1200/JCO.22.02543

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Nelson LA, Reale C, **Anders S**, Beebe R, **Rosenbloom ST**, Hackstadt A, Harper KJ, **Mayberry LS**, Cobb JG, Peterson N, Elasy T, Yu Z, **Martinez W.** <u>Empowering patients to address diabetes care gaps: formative</u> <u>usability testing of a novel patient portal intervention</u>. *JAMIA Open*. 2023;6(2):ooad030. doi:10.1093/jamiaopen/ooad030

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Andrews J, Josephson CD, Young P, Spinella PC, Yazer MH. <u>Weighing the risk of hemolytic disease of the</u> <u>newborn versus the benefits of using of RhD-positive blood products in trauma.</u> *Transfusion*. Published online April 18, 2023. doi:<u>10.1111/trf.17352</u>

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 <u>News section of</u> <u>our website</u> 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 <u>@VUMC_VCLIC</u> too!

Thank you, and see you soon!