



VCLIC News and Happenings, Volume 26

Hi all, and welcome to the June edition of VCLIC News! We hope this finds you well and staying cool. This month, we are thrilled to show off our **2021-2022 Center Annual Report**, which gives a brief overview of many of the things we have accomplished this year. We are, as ever, grateful to our members for all their contributions and looking forward to another productive year!

We also have some fun photos to share from **AMIA's Clinical Informatics Conference**, as well as a quick visit from **Kevin Johnson, MD, MS**, our most recent past DBMI Chair and Center member. This month, we are excited to feature **Ashley Spann, MD, MSACI**, and to introduce those who might not know about her work to all the phenomenal projects, organizations, and initiatives she is engaged in.

Please save the date for our first event of Fall 2022, which will be our **InformaticCon** on September 28th from 12:00-2:00 pm. More details coming soon! Finally, and as always, we close our letter with a reminder of upcoming conference submission deadlines, as well as publications, presentations, honors, awards, and conference acceptances of our members.

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

VCLIC Annual Report



VCLIC ANNUAL REPORT

2021-2022



We are so excited to share with you the highlights of what we accomplished as a Center this year! You can view a copy of the 2021-2022 Annual Report [here](#). Please share the report widely.

AMIA CIC Recap

Several VCLIC members presented at and attended the AMIA Clinical Informatics Conference, which was just held in Houston, TX from May 23rd-26th, 2022. We had a great time gathering with other clinical informaticians, including past VCLIC members and friends, to hear what we are all working on now!



VCLIC Members/past members pictured: Siru Liu, PhD; Rob Turer, MD, MS; Adam Wright, PhD; Trent Rosenbloom, MD, MPH; Bryan Steitz, PhD; Lindsey Knake, MD; Patty Sengstack, DNP; Elise Russo, MPH; Allison McCoy, PhD

Clinical Directors Reunion

On May 19th we had a special visit from past DBMI Chair **Kevin Johnson, MD, MS**, and several of the Clinical Directors were able to catch up with him over BBQ. Pictured from bottom left: **Trent Rosenbloom, MD, MPH; Shane Stenner, MD, MS; Allison McCoy, PhD; Patty Sengstack, DNP; Yaa Kumah-Crystal, MD, MPH, MA; Sharidan Parr, MD, MSCI, MS; Kevin Johnson, MD, MS.**



Member Spotlight: Ashley Spann, MD, MSACI



Ashley Spann, MD, MSACI is a graduating clinical informatics fellow from Vanderbilt's Clinical Informatics Fellowship program. She completed gastroenterology fellowship here at Vanderbilt in 2021 and will serve the gastroenterology division within the Department of Medicine as both the chief gastroenterology fellow and transplant hepatology fellow for the 2022-2023 academic year. Through the informatics fellowship program, she obtained a Master of Science in Applied Clinical Informatics with her capstone work focused on automated identification and risk stratification of patients with non-

alcoholic fatty liver disease (NAFLD). She has published and presented at national meetings on methodologies and best practices for leveraging machine learning within liver disease. Additionally, she held an integral role in the creation of the Epic Systems Hepatology Steering Board to influence national and international EHR standards related to the care of patients with liver disease, and currently serves the board as the chair. Her work has spanned a wide variety of informatics domains, with specific interests in quality improvement, predictive modeling through machine learning, and targeted implementation of clinical decision support (CDS) tools for optimization of care delivery and access to care.

What I'm Working On:

The main projects I am working on right now are:

1. Primary care pilot assessing the impact of implementation of focused CDS for risk stratification of patients with NAFLD
2. Identification of undiagnosed NAFLD patients within the EHR through natural language processing to identify NAFLD associated findings on radiology reports
3. Supporting quality improvement within colorectal cancer screening at the institutional level through focused outreach efforts supported by data analytics and leveraging EHR functionality
4. Build and design of CDS tools to facilitate integration of a machine learning model for suicide risk prediction within ambulatory care neurology clinics (SafeCourse Pilot Study; PI – Colin Walsh)

VCLIC Involvement: I have been involved with VCLIC since its launch and have thoroughly enjoyed working with the center from the start. I am a physician builder and an active member of the Vanderbilt Database Access Working Group (VDAWGs) program and often leverage these capabilities weekly along with resources available via the VCLIC Confluence site through divisional research efforts and operational needs of the division and institution.

Collaboration Opportunities: I am especially interested in implementation studies involving clinical decision support as health system interventions to promote equitable care access and delivery. I would be happy to collaborate with any trainees, faculty or staff with similar interests, both within the digestive diseases realm, as well as within population health and chronic disease management. Please feel free to contact me if you would like to discuss how we can work together for the betterment of our patients!

Save the Date: InformaticCon, Coming September 28th, 2022

INFORMATIC CON22



VCLIC

To kick off our 2022-2023 Academic Year Seminar Program, VCLIC is will host “InformaticCon,” a conference-style symposium with several short talks as well as a poster session where people from around VUMC (and VU) can share their clinical informatics-related projects. This event will run from 12:00 pm to 2:00 pm on Wednesday, September 28th, 2022, and will serve as the first VCLIC-sponsored DBMI Seminar of the year. We are very excited and will share more details next month! In the meantime, start thinking about what you’d like to present!

*A quick note that we will not have a traditional newsletter in July, but please look for more information on our InformaticCon

Center for Quantitative Sciences Summer Institute Registration Open



Registration is open for four weeklong courses offered by Vanderbilt’s Center for Quantitative Sciences: **Big Data in Biomedical Research** (August 1–5), **Introduction to Causal Inference** (August 1–5), **Regression and Modeling in R** (August 8–12), and **Cloud Computing and Case Studies in Biomedical Data Science** (August 8–12). An early bird discount is available through June 19, and regular enrollment will be open through July 25.

Last year, the courses drew participants from around the world (live participation is advised, but recordings are made available through the end of August), and they’re an opportunity to engage with top Vanderbilt University researchers and instructors. This year, a short course on Cloud Computing and Case Studies in Biomedical Data Science is being offered for the first time.

It is intended to help researchers understand how best to deploy, scale, and manage costs related to applications in the cloud – topics that are more relevant than ever in this age of big data and complex scientific challenges.

There are longer descriptions of the courses at <https://www.vumc.org/cqs/cqs-summer-institute>.

Upcoming Conference Submission Deadlines

- [American Nursing Informatics Association \(ANIA\)](#)
 - Speaker/Podium Abstracts: July 30, 2022
- [American College of Cardiology \(ACC\)](#)
 - Abstracts & Cases: September 22, 2022
- [Conference on Neural Information Processing Systems \(NeurIPS\)](#)
 - Camera-ready, poster, and video submission: October 12, 2022, 1 pm PDT
- [Institute for Healthcare Improvement \(IHI\) Forum](#)
 - Poster deadlines: October 21, 2022

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

Publications, Presentations, Interviews, Honors, and Awards

Honors

Scott D. Nelson, PharmD, MS, CPHIMS, FAMIA, has been selected to be a co-chair of the 2023 AMIA Clinical Informatics Conference in Chicago.

Additionally, per **Dr. Nelson**, the MS in Applied Clinical Informatics (MSACI) program, which he runs, just received candidacy status from the [Commission on Accreditation for Health Informatics and Information Management Education](#) (CAHIIM). CAHIIM worked with the AMIA Accreditation Council (AAC) in establishing core competencies for health informatics education at the master's degree level.

Congratulations!

Adam Wright, PhD was an honorable mention for Faculty Mentor of the Year!

Presentations

Yaa Kumah-Crystal, MD, MPH, MS, gave a virtual lecture about voice in the EHR at UT Southwestern's May Clinical Informatics Research Colloquium. The Clinical Informatics Center at UT Southwestern hosts the Clinical Informatics Research Colloquium to bring clinical informatics, research informatics, and other data and informatics scientists together at UT Southwestern to foster exchange of ideas, collaboration, and development of grants, papers, and novel projects.

News Mentions

Kim Unertl, PhD, FACMI was quoted in the VUMC Reporter article, "[DBMI summer program for MNPS high school students resumes](#)" in which she spoke about the difficulty in funding high school students.

William Martinez, MD, MS, was mentioned for presenting his current research at Vanderbilt Diabetes Day in the Reporter article, "[Vanderbilt Diabetes Day celebrates investigational achievements, looks toward future.](#)"

Scott Nelson, PharmD, MS, and **Adam Wright, PhD**, were mentioned for their paper on naloxone prescribing patterns over the 15 months following implementation of an automated alert in the Reporter article, "[Pushing \(anti-overdose\) drugs.](#)"

Derek Williams, MD, MPH, was mentioned as an author of a study on acute care utilization rates of children with medical complexity in the Reporter article, "[Pediatric acute care use by ZIP code.](#)"

Lyndsay Nelson, PhD, was quoted for her project conducted as part of a larger study examining telehealth use among caregivers of young children in the Reporter article, "[Scale measures confidence with telehealth technology.](#)"

Accepted Conference Abstracts

***Just a note that we will be collecting and congratulating everyone's AMIA acceptances later this summer—if you had a poster, panel, presentation (or otherwise) accepted and haven't sent it to me yet, please forward it on! Bonus points if you format it the way it would go on a CV 😊.**

Shepherd ME, Lecorps A, Inman L, Miller-Wilson LA. Evaluation of a Multimedia Outreach Campaign for Multi-Target Stool DNA Test for Colorectal Cancer Screening Among Non-Medicare Employer Population. ISPOR 2022 Professional Society for Health Economics and Outcomes Research Annual Meeting 5/15-18/2022; Virtual and Washington, D.C.

Shepherd ME, Resic A, Khan MK, Peterson R, Rumschlag, M. "American Academy of Family Physicians (AAFP) Improving Adult Immunization Rates within African American Communities" (30-minute lecture). Society of Teachers of Family Medicine (STFM) Conference on Practice Quality & Improvement 9/11-14/2022; Savannah, GA. (Abstract accepted, April 14, 2022)

Bhattacharya S, Zwahlen D, **Shepherd ME**, Moore D, Resic A, Khan M. "American Academy of Family Physicians (AAFP) Improving Adult Immunization Rates among Racial and Ethnic Minority Populations Project" (Poster presentation). Society of Teachers of Family Medicine (STFM) Conference on Practice Quality & Improvement 9/11-14/2022; Savannah, GA. (Abstract accepted, April 14, 2022)

Shepherd ME, Hines D. "Obesity and Health Disparities: Address Your Health Plan's Biggest Culprit." HEROForum22: How the Choices We Have Influence the Choices We Make: Diversity, Inclusion, and the Integration of Lifestyle Medicine and Population Health Promotion September 19-23; Amelia Island, FL. (Accepted 6/3/22)

Publications

June

Fishman SR, Hoogendoorn CJ, Wang C, **Mulvaney SA**, Jonas VH, Mendez-Rodriguez H, Fang R, Solon CA, Crandall JP, Gonzalez JS. (2022). [610-P: Negative Affect and Symptom Experience in Type 2 Diabetes \(T2D\) : A Bidirectional Evaluation Using Ecological Momentary Assessment \(EMA\)](#). *Diabetes*;71(Supplement_1).

Mayberry LS, Hendrickson C, **McCoy AB**, Elasy TA. (2022). [62-LB: Rapid CGM Uptake among Adults with Type 2 Diabetes](#). *Diabetes*;71(Supplement_1).

Mayberry LS, Roddy MK, Jaser SS, Elasy TA. (2022). [63-LB: Correlates of CGM Uptake among Adults with Type 2 Diabetes in Primary Care](#). *Diabetes*;71(Supplement_1).

Munger MA, **Nelson SD**, Teng CC, Cheung AK, Sauer BC. (2022). [Reduced Risk of NSAID-Induced Adverse Events with Concomitant Use of Misoprostol \(MICRO Study\)](#). *Pharmacotherapy*.

Reese TJ, Liu S, **Steitz B**, **McCoy A**, **Russo E**, **Koh B**, Ancker J, **Wright A**. (2022). [Conceptualizing clinical decision support as complex interventions: a meta-analysis of comparative effectiveness trials](#). *Journal of the American Medical Informatics Association*.

Salwei ME, **Anders S**, **Novak L**, Reale C, Slagle J, Harris J, **Unertl K**, Nath P, Mahadevan S, Agarwal R, Elliott N, Lee R, **Weinger MB**, **France D**. (2022). [Preventing clinical deterioration in cancer outpatients: Human centered design of a predictive model and response system](#). *Journal of Clinical Oncology*;40(16_suppl):e13567-e13567.

May

Bastarache L, **Peterson JF**. (2022). [Penetrance of Deleterious Clinical Variants](#). *JAMA*;327(19):1926-1927.

Hobensack M, Levy DR, Cato K, Detmer DE, **Johnson KB**, Williamson J, Murphy J, Moy A, Withall J, Lee R, Rossetti SC, **Rosenbloom ST**. (2022). 25 x 5 Symposium to Reduce Documentation Burden: Report-out and Call for Action. *Appl Clin Inform*;13(2):439-446.

Salwei ME, Carayon P. [A Sociotechnical Systems Framework for the Application of Artificial Intelligence in Health Care Delivery](#). *Journal of Cognitive Engineering and Decision Making*;0(0):15553434221097357.

Shepherd ME, Lecorps A, Inman L, Miller-Wilson LA. [Evaluation of a multimedia outreach campaign for a multi-target stool DNA test for colorectal cancer screening among non-medicare employer population in the United States](#). *Preventive Medicine Reports*; 28.

Wust KL, Carayon P, Werner NE, Hoonakker PLT, **Salwei ME**, Rutkowski R, Barton HJ, Dail PVW, King B, Patterson BW, Pulia MS, Shah MN, Smith M. [Older Adult Patients and Care Partners as Knowledge Brokers in Fragmented Health Care](#). *Human Factors*;0(0):00187208221092847.

Zehtab Hashemi H, Abedian S, Parvasideh P, Bahrevar Z, **Madani S**. (2022). [Discovering Rules from a National Exam Repository: A Use Case for Data Analysis from Iranian Medical Schools Entry Exam](#). *Stud Health Technol Inform*;294:796-800.

Accepted or In Press

Burton WN, Schultz AB, **Shepherd ME**, Hines D. Migraine Headache in an Employed Population: Demographics, Health Risks, Pharmaceutical Utilization, and Productivity Loss. *J Occup Environ Med*. Accepted for publication April 18, 2022.

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!