VCLIC News and Happenings, Volume 48

We are so thrilled to bring our newsletter back after our brief (June) hiatus. Hopefully all of you have been staying cool and catching up on some work and summertime relaxation in the meantime.

In June we released our 2023-2024 Annual Report, which we hope you have all had a chance to review, but if not, we have included the links below. It's always so fun to look back on the year and remember all the different projects and people VCLIC has worked with or on!

We are also so excited to announce that both sign-ups for attendees and abstract submissions for folks who want to present at InformaticCon 2024 are now OPEN! The event will take place on Wednesday, September 4th, and we hope to see you there!
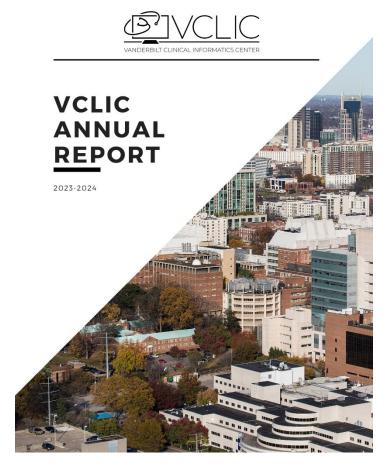
We are currently in the midst of planning a few Fall workshops and hope to have details on those out to you soon as well, and we plan to release a new set of VCLIPS at the start of the next semester, so keep an eye out for those!

Additionally, VCLIC is so excited to announce that we have a new Research Analyst working with us, and we are introducing Kimberly Garcia Flores to y'all as our Featured Member this month. Kimberly was instrumental in putting this newsletter together, and we are so glad to have her working with us!

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 Annual Report for 2023-2024 Released

We hope by now you have received and read a copy of our 2023-2024 Annual Report, which we released in mid-June. We are so proud of everything our members accomplished last academic year, and can't wait to see what the next year brings!

VCLIC Awards Presented at Annual Member Ice Cream Social

Though we are proud of all of our members, we did take the time to recognize some folks who completed stellar projects with us (through a VCLIC affiliated class, program, or Core) this year.

Please congratulate the winners of these VCLIC awards with us!

Physician Builder Award: **Eddie Qian, MD, MS and Parker Evans, MD**

For the third year, VCLIC has helped the Physician Builder Program recognize two builders who have contributed significant and impactful service through work that develops and/or supports operational usage of eStar. **Eddie Qian, MD, MS** won the award for his outstanding work on ACORN, other trials and his support of the ICU. **Parker Evans, MD** won for outstanding contributions improving workflows in surgery.
(pictured: Eddie Qian with Adam Wright; we missed Parker Evans at the social)

Clinical Informatics Core Outstanding Data Project: **Alex Hawkins, MD, MPH and Megan Schroder, MD**

The Clinical Informatics Core recognizes **Alex Hawkins, MD, MPH** and **Megan Shroder, MD** for their data project, "Patient Reported Outcome Measures (PROMs) in Diverticulitis." This project identified higher overall PROMs scores related to quality of life in patients who chose to pursue elective colectomy after consultation for recurrent diverticulitis.

(Pictured: Megan Shroder with Adam Wright and Allison McCoy; we missed Alex Hawkins at the social)

Clinical Informatics Core Outstanding Build Project: **April Barnado, MD**

The Clinical Informatics Core recognizes **April Barnado, MD, MSCI** for her build project, "Antinuclear Antibodies (ANA) Risk Model Implementation". This project implemented a validated a risk model that helps predict whether patients with an elevated ANA result are at risk for developing systemic autoimmune diseases. The model was implemented by the VCLIC Core and is now being evaluated as part of a randomized, controlled trial to optimize referrals to rheumatology and reduce wait times for higher-risk patients.

(Pictured: April Barnado with Adam Wright and Allison McCoy)

Outstanding Clinical Informatics Course Student Project: **Hyunjoon Lee, MS**, **Ali Carroll, MD, MPH,** and **Sara Horst, MD**

This semester, **Hyunjoon Lee, MS**, and **Ali Carroll, MD, MPH,** mentored by **Sara Horst, MD** completed the outstanding project in BMIF 7340 by designing a dashboard to track PROM viewing rates and inform decisions about efforts to prioritize improving viewing rates for PROMs. Their work will be used to build tools that can help monitor and optimize other department-specific questionnaires.

(Pictured: Hyunjoon Lee with Adam Wright and Allison McCoy; we missed Ali Carroll and Sara Horst at the social)

Outstanding Evaluation and Dissemination Project: **Brooke Walker, MMHC and Jenna Cabler, MS**

For their work implementing, evaluating, and presenting the Current Visit tab to combine the Plan and Wrap-Up tabs in eStar, VCLIC recognizes **Brooke Walker, MMHC and Jenna**

Cabler, MS. The project was presented at this year's Epic XGM meeting with an impressive 13% reduction in clicks and 30% decreased time (5-10 minutes per user per day) in relevant activities among physicians and advance practice providers. Epic has since released new utilities to allow all customers to make this change.

VCLIC Staff Award: **Donnie Sengstack, MS**

For all his hard work completing everyone's Core projects as well as his kind and generous attitude, we are so happy to celebrate **Donnie** this year!
(pictured: Donnie Sengstack with Adam Wright and Allison McCoy)

Congratulations to all our winners!

Center for Quantitative Sciences 2024 Summer Institute

The Center for Quantitative Sciences is offering virtual, and in-person courses this summer on big data, casual interference, and R. Registration for week 2 courses (Regression/Modeling in R and Causal Inference) is still open! Register by Monday, July 15.

More info/Registration link here: https://www.vumc.org/cqs/cqs-summer-institute

VCLIC Events: InformaticCon 2024

We are so excited to bring back InformaticCon for a third year! Please join us on Wednesday, September 4th from 11:00 am-2:30 pm in Light Hall for this year's event!

Our schedule will be:
11:00 am-12:00 pm Panel
12:00-1:00 pm Lightning Talks and Lunch
1:00-2:30 pm Poster Session

Sign up here: https://redcap.link/1dsqggji

Presenter Sign-ups are also now open: https://redcap.link/4lxo65l5

Please submit your project ideas by August 1st for consideration.

VCLIC Featured Member: Kimberly Garcia Flores, BA

 I graduated from Vanderbilt University in May 2024 with a bachelor's degree in communications of science and technology and American Studies. I am originally from Atlanta, Georgia (Go Braves!) but have been enjoying the Nashville scene for some time now. As an undergraduate student, my research traversed communication studies, ethics, technology, history, science/medicine, and law. I am primarily interested in the way technology interacts with communities on a larger scale, and the trends associated with

the introduction of new A.I. and a global pandemic changing the way we practice medicine. I am eager to work alongside and learn from the VCLIC and the DBMI team at VUMC! Feel free to reach out!

(I am also a new set of eyes behind this monthly newsletter. Feel free to save my email and forward any exciting happenings! 😊) kimberly.garcia@vumc.org

Upcoming Conference Submission Deadlines

Medical Informatics Europe 2025: Glasgow, Scotland: May 19-21, 2025

- Submission deadline for full papers and short communication papers/posters is September 16, 2024

International Medical Informatics Association (IMIA) Medinfo Taipei, Taiwan: August 9-13, 2025

- Submissions open: April 1, 2024- December 4, 2024 (Open now!)

Pediatric Academic Societies (PAS) Meeting Honolulu, Hawaii: April 14-28, 2025

- Submission calls :> 8/1/2024 -9/18/2024

American Nursing Informatics Association (ANIA) 2025, New Orleans, Louisiana: March 29, 2025

- Poster abstracts due November 15, 2024

Association for computing machinery CHI 2025 Yokohama, Japan: April 26-May 1, 2025

- Paper submission deadline is September 12, 2024

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

For those of you attending conferences and presenting posters, we have a template on our Confluence page that we would encourage you to use.

Honors and Awards:

Siru Liu, PhD was highlighted in Discoveries in Medicine for her work a new tool that uncovers information in patient clinic notes to enhance lung cancer screening for smokers and former smokers. Read more about it here!

Congratulations to **Eunice Huang, MD, MS** for officially starting her term as a Governor for the American Pediatric Surgical Association Board (2024-2027)!

Sunil Kripalani's, MD, MSc, SFHM, FACP article: ["What works in medication reconciliation: an on-treatment and site analysis of the MARQUIS2 study"](#) was selected by BMJ Quality and Safety as their [#1 research article of 2023!](#)

Patricia Sengstack, DNP, RN-BC, FAAN has been invited by the Agency for Healthcare and Research Quality to serve on the Patient Safety Network (PSNet) Technical Expert Panel.

Alvin Jeffery, PhD officially joined the DBMI primary faculty as an assistant professor on July 1, 2024. Welcome!

Eric Tkaczyk, MD, PhD, FAAD received a five-year, $4.2 million grant from the National Heart, Lung, and Blood institute of the NIH to validate an AI technology for measuring skin changed in patients with chronic graft versus-host disease.

Yaa Kumah-Crystal, MD, MPH, MS served on a panel at the Intersystem Global Summit in Washington, DC and participated in a skit performance during the keynote with Don Woodlock and Jonathan Teich about AI in Healthcare.

Martin Were, MD, MS was featured on VUMC News for his work in establishing a biomedical informatics training program in Mozambique. Read about it here!

Kelly Aldrich, DNP, RN, NI-BC, FHIMSS, FAAN was invited to join Dr. Christy Hall on the Advancing Nursing podcast to discuss Embracing Informatics to Drive Healthcare Transformation. [Listen to the Podcast episode here!](#)

Dara Mize, MD was appointed to the new Board of Directors for the Tennessee Chapter of the Healthcare Information and Management Systems Society (TN HIMSS) for the upcoming year!

Congratulations!

Conferences and Other Presentations

Eunice Huang, MD, MS and team presented on several topics including; "Improving Time to Goal Feeding and Discharge after Surgical Gastrostomy Tube Placement in Children", "Variations in Care: Inguinal Hernias in Premature Infants", "The Impact of Longitudinal Coaching on Well-Being and Burnout in Pediatric Surgery Trainees: 2021-2023 Cohort", and "Introduction to Coaching for Success Breakshop" at the annual American Pediatric Surgical Association in May.

Jessica Ancker, MPH, PhD, FACMI presented a keynote talk "When Nudges are Better than Decision Support: Intentional Choice Architectures in IT, Policy & Research" at the 12th IEEE International Conference on Healthcare Informatics in Orlando.

Eunice Huang, MD, MS was an invited moderator for the Presidential Symposium: AI applications in Medical Education at the American Pediatric Surgical Association Annual Meeting in Phoenix, AZ in May 2024.

Eric Brown, MD, PhD presented a talk to the 2024 Systems Biology of Human Diseases conference earlier this month About AI, Informatics, and Ophthalmology in June: **Brown EN**. A 20/40 Vision of the Future of AI in Ophthalmology. Systems Biology of Human Diseases 2024; 2024 Jun 11; Nashville, TN.

Eric Brown, MD, PhD and students presented two posters at the Vanderbilt Eye Institute Research Poster Session in June:

- Nayak N, **Brown EN**, Robinson J. Evaluating the Accessibility of Online Ophthalmologic Resources for Patients with Disabilities. VEI Research Poster Session; 2024 Jun 13; Nashville, TN.
- Lee LH, Hirbo J, Joos K, **Brown EN**. Automated Extraction of Visual Fields using FOSS OCR Engines from Scanned Report Images. VEI Research Poster Session; 2024 Jun 13; Nashville, TN.

Kelly Aldrich, DNP, RN, NI-BC, FHIMSS, FAAN delivered the opening Dr. Virginia Saba Memorial Keynote Address: How Nursing Informatics Leads Innovation for ANIA in Chicago, May 2024.

(Pictured: VUSN NI graduate students with Dr. Aldrich, Dr. Ivory, Mindy Kidder, ONC CNO at the ANIA conference)

Accepted Conference Abstracts

- Kandaswamy S, Knake L, Dziorny A, Hernandez S, **McCoy AB**, Hagedorn P, Orenstein E, Kirkendall E, Malloy M, Muthu N, Murugan A, Beus J, Mai M, Luo B, Chaparro JD. "Paucity of AI implementation in Clinical Pediatrics: A Systematic Review." Poster Presentation, AMIA Annual Symposium Proceedings. 2024.

- **Liu S, McCoy AB, Wright AP,** Carew B**, Genkins JZ, Huang SS, Peterson JF, Steitz B, Wright A.** "Leveraging Large Language Models for Generating Responses to Patient Messages – A Subjective Analysis." Podium Presentation, AMIA Annual Symposium Proceedings. 2024.

- **Ueland T, Franklin J, McCoy AB, Horst S**. "eVisit, then what? A Patient-level Analysis of Care Utilization and Messages." Poster Presentation, AMIA Annual Symposium Proceedings. 2024.

- **McCoy AB, Russo EM, Wright A**. "A Modern, Innovative Curriculum for Teaching Clinical Informatics." Podium Presentation, AMIA Annual Symposium Proceedings. 2024.

- **Sengstack DG, Dalal AS, McCoy AB.** "Leveraging EHR Data to Improve Care Timeliness for Patients with Cardiovascular Implantable Electronic Devices." Poster Presentation, AMIA Annual Symposium Proceedings. 2024.

- **Liu S, McCoy AB, Zahn L, Russo EM, Zott C, Gauthreaux N, Swiger J, Lomotan EA, Sitting DF, Dullabh P, Wright A**. "Development of a Prototype for Patient Artificial Intelligence Guided E-messages (PAIGE)" Poster Presentation, AMIA Annual Symposium Proceedings. 2024.

- **Cauley MR,** Boland RJ, Coen C, Wang Y, Aron D, **France D**, Ward MJ. "A Framework for genA.I.-Clinician Collaboration in EHR Systems" Poster Presentation, AMIA Annual Symposium Proceedings. 2024

- **Reese TJ, Wiese AD, Leech A, Domenico HJ, McNeer EA, David SE, Matheny ME, Wright A, Patrick SW. "**Developing and Implementing Prediction for Neonatal Opioid Withdrawal Syndrome" Poster Presentation, AMIA Annual Symposium Proceedings. 2024.

- **Steitz BD**, Salmi L, Turer RW, Suresh U, MacDonald S, DesRoches C, **Rosenbloom ST**. "Measuring Repeated Access to the Patient Portal While Waiting for Sensitive Results" AMIA Annual Symposium Proceedings. 2024

- **Steitz BD**, Suresh U, **Rosenbloom ST, Ancker JS**. "Quantifying Patient Portal Use Among Patients and Care Partners Managing Alzheimer's Disease and Related Dementias." AMIA Annual Symposium Proceedings. 2024

- Suresh U, **Steitz BD**, **Rosenbloom ST**, Griffith KN, **Ancker JS**. "Behavior Shifts in Patient Portal Usage During and After Policy Changes Around Test Result Delivery and Notification" AMIA Annual Symposium Proceedings. 2024.

- Becker RA, **Rosenbloom ST, Steitz BD**. "Quantifying Immediately Released Test Results that Contribute to the Highest Volume of Patient Messages" AMIA Annual Symposium Proceedings. 2024

- Arvelo IC, Shipley K, **Wright A, Steitz BD**. "Novel Machine Learning on Asynchronous Clinical Pages to Predict Clinical Deterioration." AMIA Annual Symposium Proceedings. 2024

- **Liu S, Wright AP, McCoy AB, Huang SS, Genkins JZ, Peterson JF, Kumah-Crystal YA, Martinez W,** Carew B**, Mize D, Steitz BD, Wright A**. "Using Large Language Models to

Improve Patient-Provider Communications" Poster Presentation, AMIA Annual Symposium Proceedings. 2024

- Rudin R, **McCoy AB**, Liu v, Hernandez-Broussard T, Bates D. "Building the Model is the Easy Part: Implementing Predictive Models in Clinical Care." Panel Presentation, AMIA Annual Symposium. 2024.
- **McCoy AB,** Chaparro JD, Malloy MJ, Mai MV, Orenstein E. "Catastrophic Disaster Stories Part Deux: The Predictive Analytics Failures We Should Have Predicted." Panel Presentation, AMIA Annual Symposium. 2024.
- Wu H, Tejeda CJ, Roman Jones J, **McCoy AB,** Garabedian PM, Samal L, Dykes PC. "Identifying Stakeholder Requirements for the Development of an Electronic Care Transitions Tool to Improve Health Outcomes for Patients with Multiple Chronic Conditions." AMIA Annual Symposium Proceedings. 2024.
- Christensen MA, **Anders SH**, Real C, Coffman T, Alaw H, Mathe JL, Albert D, **McCoy AB±**, Sachs A, Liu D, Storrow AB, **Kripalani S**, **Novak LL**. "'I worry we'll blow right by it': Barriers to uptake of the STRATIFY computerized decision support tool for ED discharge in acute heart failure." Podium Presentation, AMIA Annual Symposium Proceedings. 2024.
- Wang M, Stone CA, **Wright A, McCoy AB**. "Delinking Cephalosporin Cross Sensitivity Alerts in Patients with Penicillin Allergy Labels." Poster Presentation, AMIA Annual Symposium Proceedings. 2024.

Publications

Clifton, J. C., Ende, H. B., Rathnam, C., **Freundlich, R.** E., Sandberg, W. S., & **Wanderer, J. P.** (2024). A Mobile Post Anesthesia Care Unit Order Reminder System Improves Timely Order Entry. *Journal of Medical Systems*, *48*(1), 60.

Park, C., Larsen, B., Mogos, M., Muchira, J., Dietrich, M., LaNoue, M., Jean, J., Norfleet, J., Doyle, A., Ahn, S., & **Mulvaney, S**. (2024). A multiple technology-based and individually-tailored Sit Less program for people with cardiovascular disease: A randomized controlled trial study protocol. *PloS One*, *19*(5), e0302582.

LaPrad, A. S., Joseph, B., Chokshi, S., **Aldrich, K**., Kessler, D., & Oppenheimer, B. W. (2024). A smartwatch-based CPR feedback device improves chest compression quality among health care professionals and lay rescuers. *Cardiovascular Digital Health Journal*, *5*(3), 122–131.

Huang, E. Y., Saberi, R. A., Palamara, K., Katz, D., Chen, H., & Neville, H. L. (2024). Coaching Program to Address Burnout, Well-Being, and Professional Development in Pediatric Surgery Trainees: A Randomized Controlled Trial. *Annals of Surgery*.

Jew, O. S., Liu, W. W., Stamey, C., Kheterpal, M., Myers, S. A., Ellis, M. J., Byrns, J., **Wheless, L**., & Whitley, M. J. (2024). De novo belatacept does not reduce the rate of skin cancer in renal transplant recipients compared to standard therapy. *Journal of the American Academy of Dermatology*, S0190-9622(24)00831-4.

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Ende, H. B., Domenico, H. J., Polic, A., Wesoloski, A., Zuckerwise, L. C., **Mccoy, A. B**., Woytash, A. R., Moore, R. P., & Byrne, D. W. (2024). Development and Validation of an Automated, Real-Time Predictive Model for Postpartum Hemorrhage. *Obstetrics and Gynecology*, *144*(1), 109–117.

Falloon, K., Dossaji, Z., Mude, P., Abushamma, S., Ananthakrishnan, A., Barnes, E. L., Bhalla, J., Bhattacharya, A., Cheemalavagu, S., Colombel, J.-F., Cross, R. K., Ermann, J., Ha, C., Herfarth, H., **Horst, S**., Hou, J., Husni, M. E., Kline, T. M., Kuhn, K. A., Rieder, F. (2024). Diagnosis of Inflammatory Bowel Disease-Associated Peripheral Arthritis: A Systematic Review. *Inflammatory Bowel Diseases*, izae114.

Jiang, S., Guzauskas, G., Garbett, S., Graves, J., Williams, M. S., Hao, J., Jones, L. K., Zhu, J., **Peterson, J**., & Veenstra, D. (2024). EE293 A Framework to Assess Uncertainties of Polygenic Risk Scores in Disease Screening and Prevention in Cost-Effectiveness Analyses. *Value in Health*, *27*(6), S111.

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Hackstadt, A. J., Elasy, T. A., Gangaputra, S., Harper, K. J., **Mayberry, L. S**., **Nelson, L. A**., Peterson, N. B., **Rosenbloom, S. T**., Yu, Z., & **Martinez, W**. (2024). Effects of a Patient Portal Intervention to Address Diabetes Care Gaps: Protocol for a Pragmatic Randomized Controlled Trial. *JMIR Research Protocols*, *13*, e56123.

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Spann, A., Feld, L. D., Belledent, T., & Shingina, A. (2024). How to improve preventive health care in patients with cirrhosis. *Clinical Liver Disease*, *23*(1), e0233.

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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/X presence, so feel free to add, tag, or tweet/post us at [@VUMC_VCLIC](#) too!

Thank you, and see you soon!