



## VCLIC News and Happenings, Volume 47

Welcome to VCLIC's May newsletter! It's hard to believe the academic year has ended, and summer is nearly upon us. We hope you enjoyed the holiday weekend and look forward to continuing to bring you some clinical informatics headlines over the next few months.

We would first like to highlight that we will have a guest speaker on Tuesday, June 4<sup>th</sup>: **Scott Fleming**, a PhD candidate in Stanford's Department of Biomedical Data Science, will present (in person and via Teams) at 11:00 am in room 8110 at 2525 West End. We hope you can join us!

Over the last month, we have also had several VCLIC attendees and presenters at conferences. We are highlighting **Epic's XGM** and **AMIA's CIC**, but we know y'all have been busy traveling and presenting this month, and hope everyone had a fantastic time and learned something!

Related to conference presentations, we are highlighting **Wael Alrifai, MD, MS'** work on the NeoCommand Dashboard he built, which has received national level acclaim, especially from Epic!

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](mailto:elise.russo@vumc.org)).

## VCLIC Events

VCLIC and DBMI Grand Rounds with Scott Fleming, PhD Candidate in Stanford's Department of Biomedical Data Science; Tuesday, June 4th from 11:00 am-12:00 pm

# "Are we there yet?" -- The long road to meaningful impact for large language models in medicine

 June 4th, 2024

 11:00am - 12:00pm CT

In Person at 2525 West End  
in Room 8110, and Via MS  
Teams

Additional Details: <https://www.vumc.org/vclic/events-announcements>



Please join us on June 4th at 11:00 am for an exciting talk by **Scott Fleming**, a PhD candidate in Stanford's Department of Biomedical Data Science. Scott will be at 2525 West End on the 8th Floor (room 8110), but we will also stream his talk via [MS Teams](#).

## VCLIC Conference Presence

Between the end of April and mid-May, several VCLIC members traveled to present work at conferences, most notably, Epic's XGM and AMIA's Clinical Informatics Conference.

Congratulations to all the VCLIC members who presented at these conferences:

### Epic XGM

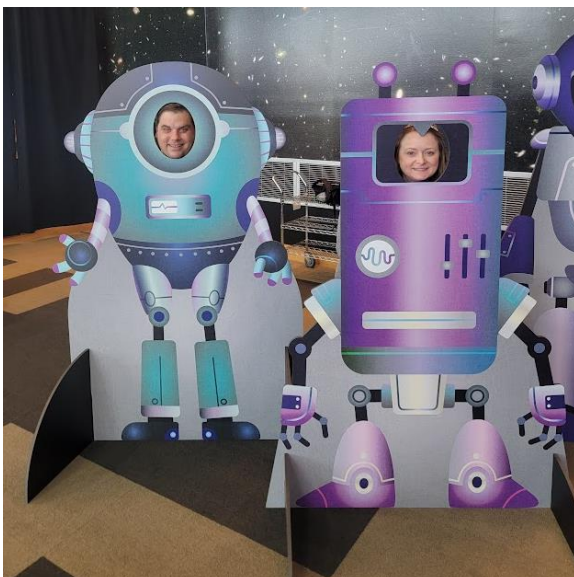
- **Allison McCoy, PhD:** Pull it Together: Combining Plan and Wrap-up Tabs (Clinical Advisory Council)
- **Wael Alrifai, MD, MS:** NeoCommand: Inpatient Throughput Management and Situational Awareness (Clinical Advisory Council)\*\*
- **Yaa Kumah-Crystal, MD, MS, MPH:** No Thank You: Inbasket Volume Reduction (Physician Advisory Council)
- **Yaa Kumah-Crystal, MD, MS, MPH:** A Data-Driven Approach to Optimizing House Staff Offboarding (Project Managers Advisory Council)
- **Jon Wanderer, MD:** Block and Tackle: Two Approaches for Coordinating Regional Anesthetics (Perioperative Advisory Council)
- **Allison McCoy, PhD and Justin Bachmann, MD, MPH:** Implementing Patient-Reported Outcome Measures at the Enterprise Level (MyChart Patient Experience Advisory Council)

- **Sara Horst, MD, MPH:** Improving Adequate Colonoscopy Prep Rates with Education through Care Companion (MyChart Patient Experience Advisory Council)

\*\*please see below larger excerpt on NeoCommand!

AMIA Clinical Informatics Conference

- **Creative Decision Support Stories: Pivoting Away from Pop Up Alerts** – Swaminathan Kandaswamy, Justine Mrosak, Hennepin, Regine Fortunov, Anne Fallon, **Allison McCoy**
- **Organizational Issues and Informatics: Translating Theory into Practice** – Saira Haque, **Kim Unertl**
- **The CONCERN Study: Stages of an Interdisciplinary AI Enabled and Applied Clinical Informatics Intervention Study** – Sarah Rossetti, **Brian Douthit**, Catherine Ivory, Po-Yin Yen, Kenrick Cato
- **Patient Attitudes Towards Accessing Immediately Released Test Results Before Clinician Review** – Bryan Steitz
- **Incorporating Patient Preference into Open Results: Impact of Notification Policy on Review of Immediately Released Test Results** – Bryan Steitz
- **EHRs Under Examination: The Role of Clinical Informatics Experts in Legal Proceedings** – Adam **Wright**, Genevieve Melton-Meaux, Dean Sittig, Matthew Keris, Marshall Dennehey, Amanda Heidemann
- **Clinical Informatics in Action: Adapting to Climate Change** – Chethan Sarabu, Stefano Leitner, Theresa Cullen, Dr. Tim Burdick, **S. Trent Rosenbloom**
- **Cancer is Different: Exploring the Impact of Immediate Access to Cancer-Related Test Results on Patients and Clinicians** – Bryan Steitz, Scott MacDonald, Nicole Wood, Hamid Emamekhoo
- **Zero-Shot Classification of Health Information Needs in Clinical Messages to Support Intelligent Message Routing** – Bryan Steitz
- **Effect of Immediate Result Release on New Appointment Scheduling** – Uday Suresh
- **Bridging the Gap Between Informatics Operations and Academics: The Vanderbilt Clinical Informatics Center + HealthIT Evaluation and Dissemination Program** – Allison McCoy



# NeoCommand in Demand

As mentioned in the above XGM section, **Wael Alrifai, MD, MS** presented on his NeoCommand Epic Build project at Epic’s XGM conference earlier this month (at the request of our Epic TS).

Beyond that presentation, Wael’s work on this fantastic NICU dashboard has been presented as a [Physician Builder Spotlight](#) (requested by Epic trainers). He has also met with several organizations who have asked for a demonstration and consultation to replicate the dashboard. Epic also just requested that it be incorporated into one of the most popular training courses (CLN 176 Physician Builder Analytics), as this concept did not exist in training materials before Epic saw Wael’s NeoCommand build. Finally, per a Neonatology Steering Board request NeoCommand is being adopted into Epic Foundation System in a basic form.

Congratulations on a build well done, Wael! It’s an inspiration to see this work make it into so many Epic materials and other organizations.

Center for Effective Health Communication Research Grant Program  
 The CEHC (Center for Effective Health Communication) currently has [applications open for their 2024 grant program](#). For any questions, please email Dr. Erin Bergner at [erin.m.bergner@vumc.org](mailto:erin.m.bergner@vumc.org) or Dr. Kerri Cavanaugh at [kerri.cavanaugh@vumc.org](mailto:kerri.cavanaugh@vumc.org).

## 2024-2025 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 3, 2024**

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

Program may support a budget up to \$10,000.

Project must be completed by June 30, 2025.

#### 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/2024-cehc-health-communication-grant>



## Upcoming Conference Submission Deadlines

- [Association for Computing Machinery Conference on Bioinformatics, Computational Biology, and Health Informatics \(ACM-BCB\)](#)
  - Paper Submission Deadline: June 26, 2024
- [Institute for Healthcare Improvement \(IHI\) Forum](#)
  - Poster Deadline: November 1, 2024
- [International Medical Informatics Association \(IMIA\) Medinfo](#)
  - Submission Deadline: December 4, 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.**

## Presentations, Interviews, Honors, and Awards

### Honors/Awards

- Congratulations to **Jessica Ancker, MPH, PhD** for being awarded the 2024 DBMI Outstanding Educator Award at the second DBMI All-Hands Meeting!
- Likewise, congratulations to **Scott Nelson, PharmD, MS** for being awarded the 2024 Technology, Organizational Development and Evaluation (TODE) Award at the second DBMI All-Hands Meeting as well!
- We would also like to congratulate the MSACI Class of 2024: **Julie Bauml, MD, MS** (pictured below with Program Director **Scott Nelson, PharmD, MS**, and Department Chair **Peter Embi, MD, MS**), Adam Broslat, Eric Brown, Nick Goldsmith, Jay Patel, and Hanna Semega!



- **Megan Salwei, PhD**, was awarded the Best Poster Presentation Award at the Department of Anesthesiology Research Symposium for her poster: “Using cognitive engineering to understand breast cancer patient decision-making” Co-authors: Barbara Voigtman, Janelle Faiman, Carrie Reale, **Shilo Anders, Matthew B. Weinger**
- **Patricia Sengstack, DNP, RN-BC** was invited to assist in revisions to ONC’s SAFER Guides, and will be leading updates to the Organizational Responsibilities Guide.

## Conferences and Other Presentations

- **Brian Douthit, PhD, RN-BC** presented a DBMI Special Seminar titled “Critically Examining Clinician Documentation Utility” on Wednesday, May 29, 2024.
- **Patricia Sengstack, DNP, RN-BC** is an invited speaker for the Society for Urologic Nursing and Associates (SUNA) Annual Conference and will be presenting on “Navigating the AI Landscape: Essential Applications for Advanced Practice Nursing April 2024”
- **Patricia Sengstack, DNP, RN-BC** will be conducting a 3-hour pre-conference workshop at the International Congress in Nursing Informatics in Manchester England July 28, 2024, on “Navigating AI: Prompt Engineering Skills for Nurse Informaticists”.
- **Julie Bauml, MD** presented her capstone project, “*Deployment and analysis of custom EHR enhancements to standardize radiology imaging protocols*”, on May 3<sup>rd</sup> as part of the MS-ACI cohort
- **Travis Osterman, DO, MS** and **Josh Peterson, MD, MPH** [participated in an NHGRI conference](#) on informatics / data strategies for clinical genomics!
- **Jon Wanderer, MD** spoke at National Academic of Engineering panel on the Frontiers of Remote Patient Monitoring (4/30/24).
- **Yaa Kumah-Crystal, MD, MPH, MS** presented about “Incorporating Large Language Models in Health Care” at the American Thoracic Society Meeting in San Diego the weekend of May 18<sup>th</sup>/19<sup>th</sup>

## Accepted Conference Abstracts

- Werner, N.E., **Salwei, M.E.**, Valdez, R., Papautsky, E.L., Benda, N., **Anders, S.**, Barton, H. Wandering through healthcare: What patient journeys can tell us about improving patient safety, health, and well-being. Panel Presentation, ASPIRE (formerly HFES) Annual Meeting, September 9-13, 2024, Phoenix, AZ.
- Baysari, M., Barton, H.J., Newton, N., Awad, S., **Salwei, M.E.** Human factors considerations for making clinical decision support work in practice. Panel Presentation, 22nd Triennial Congress of the International Ergonomics Association (IEA), August 25-29, 2024, Jeju, Republic of Korea.
- Baxter S, Hallaj S, Boland M, Stagg B, Wang S, Xu B, **Brown EN**, et al. Multi-institutional analysis of barriers to extracting and harmonizing glaucoma testing and imaging data. ARVO Imaging in the Eye 2024; 2024 May 4; Seattle.
- Hribar M, Baxter SL, OHDSI Eye Care and Vision Workgroup, Goetz KE, **Brown EN**. Data Standardization in the OHDSI Eye Care and Vision Research Workgroup. ARVO 2024; 2024 May 6; Seattle, WA.
- Lee LH, Hirbo J, Joos K, **Brown EN**. Automated Extraction of Visual Fields using FOSS OCR Engines from Scanned Report Images. ARVO 2024; 2024 May 9; Seattle, WA.

## Publications

Turer RW, McDonald SA, Lehmann CU, Thakur B, Dutta S, Taylor RA, Rose CC, Frisch A, Feterik K,

Norquist C, Baker CK, Nielson JA, Cha D, Kwan B, Dameff C, Killeen JP, Hall MK, Doerning RC, **Rosenbloom ST**, Distaso C, **Steitz BD**. Real-Time Electronic Patient Portal Use Among Emergency Department Patients. *JAMA Netw Open*. 2024;7(5):e249831. doi:[10.1001/jamanetworkopen.2024.9831](https://doi.org/10.1001/jamanetworkopen.2024.9831)

Brahmania M, Rogal S, Serper M, Patel A, Goldberg D, Mathur A, Wilder J, Vittorio J, Yeoman A, Rich NE, Lazo M, Kardashian A, Asrani S, **Spann A**, Ufere N, Verma M, Verna E, Simpson D, Schold JD, Rosenblatt R, McElroy L, Wadwhani SI, Lee TH, Strauss AT, Chung RT, Aiza I, Carr R, Yang JM, Brady C, Fortune BE. [Pragmatic strategies to address health disparities along the continuum of care in chronic liver disease](#). *Hepatol Commun*. 2024;8(5):e0413. doi:[10.1097/HC9.0000000000000413](https://doi.org/10.1097/HC9.0000000000000413)

**Mayberry LS**, Wiebe DJ, Parks M, Campbell MS, Beam AB, Berg CA. [Acceptability and feasibility of FAMS-T1D mHealth intervention to optimize self- and social regulation for emerging adults with type 1 diabetes](#). *Pilot Feasibility Stud*. 2024;10(1):68. doi:[10.1186/s40814-024-01497-1](https://doi.org/10.1186/s40814-024-01497-1)

**Smith JR**, York T, Baldwin I, Fuchs C, Fricchione G, Luccarelli J. [Diagnostic features of paediatric catatonia: multisite retrospective cohort study](#). *BJPsych Open*. 2024;10(3):e96. doi:[10.1192/bjo.2024.61](https://doi.org/10.1192/bjo.2024.61)

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Benda N, Woode S, Niño de Rivera S, Kalish RB, Riley LE, Hermann A, Masterson Creber R, Costa Pimentel E, **Ancker JS**. [Understanding Symptom Self-Monitoring Needs Among Postpartum Black Patients: Qualitative Interview Study](#). *J Med Internet Res*. 2024;26:e47484. doi:[10.2196/47484](https://doi.org/10.2196/47484)

Ball MAZ, Sack DE, Druffner SA, Jones I, **Wrenn JO**, Sexton MM, Shinn M, Hess JJ. [Characteristics and Health Care Utilization of Patients With Housing Insecurity in the ED](#). *JAMA Netw Open*. 2024;7(4):e248565. doi:[10.1001/jamanetworkopen.2024.8565](https://doi.org/10.1001/jamanetworkopen.2024.8565)

Boudreaux A, Schell RF, **Nelson SD**, Phibbs F, Stroh J, Depp AF. [Improving Medication Management for Inpatients with a Secondary Diagnosis of Parkinson Disease](#). *Am J Nurs*. 2024;124(5):50-57. doi:[10.1097/01.NAJ.0001016384.47848.89](https://doi.org/10.1097/01.NAJ.0001016384.47848.89)

Perez OD, **Tkaczyk ER**, Petukhova L. [From the Microscopic Sweat Gland to Large Datasets: The Power of Quantitative Traits in Dermatology](#). *J Invest Dermatol*. Published online April 25, 2024:S0022-202X(24)00263-X. doi:[10.1016/j.jid.2024.03.023](https://doi.org/10.1016/j.jid.2024.03.023)

Sutter C, **Freundlich RE**, Raymond BL, et al. [Effectiveness of Oral Iron Therapy in Anemic Inpatient Pregnant Women: A Single Center Retrospective Cohort Study](#). *Cureus*. 2024;16(3):e56879. doi:[10.7759/cureus.56879](https://doi.org/10.7759/cureus.56879)

Ike JI, Smith IT, Mosley D, Madden C, Grossarth S, Halle BR, Lewis A, Mentch F, Hakonarson H, Bastarache L, **Wheless L**. [Voriconazole Metabolism is Associated with the Number of Skin Cancers Per Patient](#). *Res Sq [Preprint]*. 2024 Apr 19. doi: 10.21203/rs.3.rs-4152279/v1.



Madden C, Thompson KG, Smith IT, Ike J, Halle BR, Ahlers C, Mosley D, Grossarth S, Bibee K, **Wheless L**. [TNF-alpha Inhibitors in Organ Transplant Recipients: A Retrospective Cohort Study](#), 16 April 2024, PREPRINT (Version 1), doi:[10.21203/rs.3.rs-4059750/v1](#).

Hui D, Dudek S, Kiryluk K, Walunas TL, Kullo IJ, Wei WQ, Tiwari HK, **Peterson JF**, Chung WK, Davis B, Khan A, Kottyan L, Limdi NA, Feng Q, Puckelwartz MJ, Weng C, Smith JL, Karlson EW; Regeneron Genetics Center; Jarvik GP, Ritchie MD. [Risk factors affecting polygenic score performance across diverse cohorts](#). *medRxiv*. Published online April 10, 2024:2023.05.10.23289777. doi:[10.1101/2023.05.10.23289777](#)

Jalink M, Yan MTS, Cohn CS, **Eichbaum QG**, Fung MK, Lu W, Murphy MF, Pagano MB, Stanworth SJ, Shih AW; Biomedical Excellence for Safer Transfusion Collaborative. [Systematic review for the serological testing for cold agglutinins: The BEST collaborative study](#). *Transfusion*. Published online April 20, 2024. doi:[10.1111/trf.17842](#)

Lucas HC, Upperman JS, **Robinson JR**. [A systematic review of large language models and their implications in medical education](#). *Med Educ*. Published online April 19, 2024. doi:[10.1111/medu.15402](#)

Hobensack M, Withall J, **Douthit B**, et al. [Identifying Barriers to The Implementation of Communicating Narrative Concerns Entered by Registered Nurses, An Early Warning System SmartApp](#). *Appl Clin Inform*. 2024;15(2):295-305. doi:[10.1055/s-0044-1785688](#)

Shim PJ, Quintos JL, Faraz K, Smith IT, Petty AJ, Bottomley M, **Wheless LE**, Whitley MJ. [A Report on the Safety of Acitretin Use in Renal Failure Patients on Hemodialysis](#). *Clin Exp Dermatol*. Published online April 15, 2024:llae093. doi:[10.1093/ced/llae093](#)

Yan C, Ong HH, Grabowska ME, **Krantz MS**, Su WC, Dickson AL, **Peterson JF**, Feng Q, Roden DM, Stein CM, Kerchberger VE, Malin BA, Wei WQ. [Large language models facilitate the generation of electronic health record phenotyping algorithms](#). *J Am Med Inform Assoc*. Published online April 13, 2024:ocae072. doi:[10.1093/jamia/ocae072](#)

Scoville EA, **Horst SN**. A [Practical guide to selecting and using new Crohn's disease therapies](#). *Curr Opin Gastroenterol*. Published online April 12, 2024. doi:[10.1097/MOG.0000000000001029](#)

Aguero D, **Nelson SD**. [The Potential Application of Large Language Models in Pharmaceutical Supply Chain Management](#). *J Pediatr Pharmacol Ther*. 2024;29(2):200-205. doi:[10.5863/1551-6776-29.2.200](#)

Strayer N, Vessels T, Choi K, Zhang S, Li Y, Sharber B, Hsi RS, Bejan CA, Bick AG, Balko JM, Johnson

DB, **Wheless LE**, Wells QS, Shah R, Philips EJ, Self WH, Pulley JM, Wilkins CH, Chen Q, Hartert T, Savona MR, Shyr Y, Roden DM, Smoller JW, Ruderfer DM, Xu Y. [Interoperability of phenome-wide multimorbidity patterns: a comparative study of two large-scale EHR systems](#). *medRxiv*. Published online March 30, 2024:2024.03.28.24305045.

Hall ES, Holt JE, **Sengstack P**. Role of a nursing informatics specialist in a clinical simulation laboratory: the catalytic link. *Nurse Educ*. 2024. doi: 10.1097/NNE.0000000000001629

**Reese TJ**, Domenico HJ, Hernandez A, Byrne DW, Moore RP, Williams JB, **Douthit BJ**, **Russo E**, **McCoy AB**, Ivory CH, **Steitz BD**, **Wright A**. [Implementable Prediction of Pressure Injuries in Hospitalized Adults: Model Development and Validation](#). *JMIR Med Inform*. 2024;12:e51842.

Kang J, Castro VM, Ripperger M, Venkatesh S, Burstein D, Linner RK, Rocha DB, Hu Y, Wilimitis D, Morley T, Han, L, Kim RY, Feng YA, Ge T, Heckers S, Voloudakis G, Chabris C, Roussos, P, McCoy TH, **Walsh CG**, Perlis RH, Ruderfer DM. [Genome-Wide Association Study of Treatment-Resistant Depression: Shared Biology With Metabolic Traits](#). *AJP*. 2024;appi.ajp.20230247.

Kavanaugh-McHugh A, Zuckerwise LC, Killen SAS, Morris EA, Sullivan RT, **Alrifai MW**, Bichell DP, Smith-Parrish M, Freud L. [Management of Ebstein Anomaly in the Current Era: The Story of One Fetus and the Collaboration of Many—A Case Report](#). *Journal of Cardiovascular Development and Disease*. 2024;11:147. doi: 10.3390/jcdd11050147

Blasingame MN, Koonce TY, Williams AM, **Giuse DA**, Su J, Krump PA, Giuse NB. [Evaluating a Large Language Model's Ability to Answer Clinicians' Requests for Evidence Summaries](#). 2024;2024.05.01.24306691. <https://doi.org/10.1101/2024.05.01.24306691>

Kaur A, Budko A, Liu K, Eaton E, **Steitz BD**, **Johnson KB**. [Automating Responses to Patient Portal Messages Using Generative AI](#). 2024;2024.04.25.24306183. <https://doi.org/10.1101/2024.04.25.24306183>

## Accepted/In Press

**Salwei, M.E., & Weinger, M.B.** (In Press). Artificial Intelligence in Anesthesiology: Field of Dreams or Fire Swamp? Pre-emptive strategies for optimizing our inevitable future. *Editorial in Anesthesiology*.

Williams, D.J., Nian, H., Suresh, S., Slagle, J., Gradwohl, S., Johnson, J., Stassun, J., Reale, C., Just, S.L., Rixe, N.S., Beebe, R., Arnold, D.H., Turner, R.W., Antoon, J.W., Sartori, L.F., **Freundlich, R.E.**, Grijalva,

C.G., Smith, J.C., **Weitkamp, A.O.**, **Weinger, M.B.**, Zhu, Y., Martin, J.M. (Accepted). Prognostic Clinical Decision Support for Pneumonia in the ED: A Randomized Trial. *Journal of Hospital Medicine*.

## 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!**